



**MICHIGAN TECHNOLOGICAL UNIVERSITY**

**FINANCIAL STATEMENTS AND**

**OMB CIRCULAR A-133 SUPPLEMENTARY FINANCIAL REPORTS**

**FOR THE YEAR ENDED JUNE 30, 1997**

**TOGETHER WITH INDEPENDENT AUDITORS' REPORTS**

ARTHUR ANDERSEN LLP



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**MICHIGAN TECHNOLOGICAL UNIVERSITY**

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**FINANCIAL STATEMENTS AND SUPPLEMENTARY INFORMATION**

**AS OF JUNE 30, 1997 AND 1996**

**TOGETHER WITH AUDITORS' REPORT**



MICHIGAN TECHNOLOGICAL UNIVERSITY

FINANCIAL STATEMENTS AND SUPPLEMENTARY INFORMATION

FOR THE YEARS ENDED JUNE 30, 1997 AND 1996

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# ARTHUR ANDERSEN LLP

## INDEPENDENT AUDITORS' REPORT

To the Board of Control,  
Michigan Technological University:

We have audited the accompanying general-purpose financial statements of MICHIGAN TECHNOLOGICAL UNIVERSITY (the "University") as of and for the years ended June 30, 1997 and 1996, as listed in the table of contents. These general-purpose financial statements and supplementary information as referred to below are the responsibility of the University's management. Our responsibility is to express an opinion on these financial statements and supplementary information based on our audits.

We conducted our audits in accordance with generally accepted auditing standards and the standards applicable to financial audits contained in Government Auditing Standards, issued by the Comptroller General of the United States. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement. An audit includes examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements. An audit also includes assessing the accounting principles used and the significant estimates made by management, as well as evaluating the overall financial statement presentation. We believe that our audits provide a reasonable basis for our opinion.

In our opinion, the general-purpose financial statements referred to above present fairly, in all material respects, the financial position of Michigan Technological University, as of June 30, 1997 and 1996, and the results of its operations for the years then ended in conformity with generally accepted accounting principles.

In accordance with Government Auditing Standards, we have also issued a report dated September 12, 1997 on our consideration of the University's internal control over financial reporting and on our tests of its compliance with certain provisions of laws, regulations, contracts and grants.

The supplementary Schedule of Expenditures of Federal Awards is presented for purposes of additional analysis as required by the U.S. Office of Management and Budget Circular A-133, Audits of States, Local Governments, and Non-Profit Organizations, and is not a required part of the general-purpose financial statements. Additionally, the accompanying supplementary information is not a required part of the general-purpose financial statements. Such information has been subjected to the auditing procedures applied in the audit of the general-purpose financial statements and, in our opinion, is fairly stated, in all material respects, in relation to the general-purpose financial statements taken as a whole.

Detroit, Michigan,  
September 12, 1997.



MICHIGAN TECHNOLOGICAL UNIVERSITY  
GENERAL FUND  
**STATEMENTS OF FINANCIAL CONDITION**  
JUNE 30, 1997 AND 1996  
(in thousands)

|   | 1997            | 1996              |
|---|-----------------|-------------------|
| <b>ASSETS:</b>  |                 |                   |
| Cash and cash equivalents                                       | \$ 1,004        | \$ 1,782          |
| Accounts receivable, less allowance<br>of \$30 in 1997 and 1996 | 503             | 409               |
| Inventories   | 196             | 75                |
| Prepaid expenses  | 287             | 309               |
| Due from other funds  | 5,689           | 643               |
| Total assets  | <u>7,679</u>    | <u>3,218</u>      |
| <b>LIABILITIES:</b>   |                 |                   |
| Accounts payable  | 425             | 599               |
| Accrued payroll and payroll taxes                               | 2,691           | 2,545             |
| Unearned revenue  | 2,036           | 1,923             |
| Deposits  | 612             | 647               |
| Total liabilities   | <u>5,764</u>    | <u>5,714</u>      |
| <b>FUND BALANCE (DEFICIT):</b>                                  |                 |                   |
| Amount obligated by contractual commitments                     | 366             | 563               |
| Departmental funds carried forward                              | 4,376           | 4,213             |
| Deficit to be funded in subsequent years                        | (2,827)         | (7,272)           |
| Total fund balance (deficit)                                    | <u>\$ 1,915</u> | <u>\$ (2,496)</u> |

*The accompanying notes, starting on page 21, are an integral part of these financial statements.*

MICHIGAN TECHNOLOGICAL UNIVERSITY  
GENERAL FUND  
**STATEMENTS OF CHANGES IN FUND BALANCE**  
FOR THE YEARS ENDED JUNE 30, 1997 AND 1996  
*(in thousands)*

|  | 1997       | 1996       |
|--|------------|------------|
| <b>BALANCE AT BEGINNING OF YEAR</b>      | \$ (2,496) | \$ (3,431) |
| Revenues over expenditures and transfers | 4,411      | 935        |
|  |            |            |
|  |            |            |
|  |            |            |
|  |            |            |
|  |            |            |
|  |            |            |
|  |            |            |
|  |            |            |
|  |            |            |
|  |            |            |
|  |            |            |
|  |            |            |
| <b>BALANCE AT END OF YEAR</b>            | \$ 1,915   | \$ (2,496) |

*The accompanying notes, starting on page 21, are an integral part of these financial statements.*

MICHIGAN TECHNOLOGICAL UNIVERSITY  
DESIGNATED FUND  
**STATEMENTS OF FINANCIAL CONDITION**  
JUNE 30, 1997 AND 1996  
(in thousands)

|                                   | 1997            | 1996            |
|-----------------------------------|-----------------|-----------------|
| <b>ASSETS:</b>                    |                 |                 |
| Cash and cash equivalents         | \$ 1,947        | \$ 1,519        |
| Accounts receivable               | 70              | 206             |
| Prepaid expenses                  | 248             | 293             |
| Due from other funds              | 1,938           | 1,514           |
| Total assets                      | <u>4,203</u>    | <u>3,532</u>    |
|                                   |                 |                 |
|                                   |                 |                 |
| <b>LIABILITIES:</b>               |                 |                 |
| Accounts payable                  | 113             | 80              |
| Accrued payroll and payroll taxes | 87              | 94              |
| Unearned revenue                  | 740             | 720             |
| Deposits                          | 29              | -               |
| Total liabilities                 | <u>969</u>      | <u>894</u>      |
|                                   |                 |                 |
|                                   |                 |                 |
| <b>FUND BALANCE</b>               | <u>\$ 3,234</u> | <u>\$ 2,638</u> |

*The accompanying notes, starting on page 21, are an integral part of these financial statements.*

MICHIGAN TECHNOLOGICAL UNIVERSITY  
DESIGNATED FUND  
**STATEMENTS OF CHANGES IN FUND BALANCE**  
FOR THE YEARS ENDED JUNE 30, 1997 AND 1996  
(in thousands)

|  | 1997            | 1996            |
|--|-----------------|-----------------|
| <b>BALANCE AT BEGINNING OF YEAR</b>      | \$ 2,638        | \$ 1,773        |
| Revenues over expenditures and transfers | 596             | 865             |
|  |                 |                 |
|  |                 |                 |
|  |                 |                 |
|  |                 |                 |
|  |                 |                 |
|  |                 |                 |
|  |                 |                 |
|  |                 |                 |
|  |                 |                 |
|  |                 |                 |
|  |                 |                 |
|  |                 |                 |
| <b>BALANCE AT END OF YEAR</b>            | <b>\$ 3,234</b> | <b>\$ 2,638</b> |

*The accompanying notes, starting on page 21, are an integral part of these financial statements.*



MICHIGAN TECHNOLOGICAL UNIVERSITY  
AUXILIARY ACTIVITIES FUND  
**STATEMENTS OF FINANCIAL CONDITION**  
JUNE 30, 1997 AND 1996  
*(in thousands)*

|  | 1997          | 1996            |
|--|---------------|-----------------|
| <b>ASSETS:</b>                         |               |                 |
| Accounts receivable, less allowance of |               |                 |
| \$2 in 1997 and 1996                   | \$ 498        | \$ 540          |
| Inventories                            | 1,620         | 1,805           |
| Prepaid expenses                       | 56            | 65              |
| Total assets                           | 2,174         | 2,410           |
| <b>LIABILITIES:</b>                    |               |                 |
| Accounts payable                       | 342           | 395             |
| Accrued payroll and payroll taxes      | 265           | 240             |
| Unearned revenue                       | 17            | 11              |
| Deposits                               | 245           | 216             |
| Due to other funds                     | 931           | 34              |
| Total liabilities                      | 1,800         | 896             |
| <b>FUND BALANCE</b>                    | <b>\$ 374</b> | <b>\$ 1,514</b> |

*The accompanying notes, starting on page 21, are an integral part of these financial statements.*

MICHIGAN TECHNOLOGICAL UNIVERSITY  
 AUXILIARY ACTIVITIES FUND  
**STATEMENTS OF CHANGES IN FUND BALANCE**  
 FOR THE YEARS ENDED JUNE 30, 1997 AND 1996  
*(in thousands)*

|   | 1997     | 1996     |
|---|----------|----------|
| <b>BALANCE AT BEGINNING OF YEAR</b>       | \$ 1,514 | \$ 4,384 |
| Revenues under expenditures and transfers | (1,140)  | (2,870)  |
|   |          |          |
|   |          |          |
|   |          |          |
|   |          |          |
|   |          |          |
|   |          |          |
| <b>BALANCE AT END OF YEAR</b>             | \$ 374   | \$ 1,514 |

*The accompanying notes, starting on page 21, are an integral part of these financial statements.*

MICHIGAN TECHNOLOGICAL UNIVERSITY  
RETIREMENT AND INSURANCE FUND  
**STATEMENTS OF FINANCIAL CONDITION**  
JUNE 30, 1997 AND 1996  
(in thousands)

|   | 1997   | 1996   |
|---|--------|--------|
| <b>ASSETS:</b>  |        |        |
| Accounts receivable                                       | \$ 314 | \$ 17  |
| Deposits  | -      | 70     |
| Investments   | 11,599 | 11,454 |
| Total assets  | 11,913 | 11,541 |
| <b>LIABILITIES:</b>                                       |        |        |
| Accounts payable  | 406    | 357    |
| Accrued payroll taxes                                     | 160    | 181    |
| Current portion of accrued health<br>and liability claims | 2,128  | 2,278  |
| Accrued compensated absences                              | 2,224  | 2,131  |
| Accrued health and liability claims                       | 1,306  | 5,951  |
| Due to other funds  | 5,689  | 643    |
| Total liabilities   | 11,913 | 11,541 |
| <b>FUND BALANCE</b>                                       |        |        |
|   | \$ -   | \$ -   |

*The accompanying notes, starting on page 21, are an integral part of these financial statements.*



MICHIGAN TECHNOLOGICAL UNIVERSITY  
RETIREMENT AND INSURANCE FUND  
**STATEMENTS OF CHANGES IN FUND BALANCE**  
FOR THE YEARS ENDED JUNE 30, 1997 AND 1996  
*(in thousands)*

|   | 1997        | 1996        |
|---|-------------|-------------|
| <b>BALANCE AT BEGINNING OF YEAR</b>           | \$ -        | \$ -        |
| Deposits from operating funds                 | 19,651      | 19,044      |
| Transfers to operating funds                  | (9,741)     | (4,631)     |
| Decrease in accrued liabilities               | 4,674       | 869         |
| Benefit payments and self-insured losses, net | (15,831)    | (16,112)    |
| Net unrealized gains on investments           | 1,247       | 830         |
|   |             |             |
|   |             |             |
|   |             |             |
|   |             |             |
|   |             |             |
|   |             |             |
|   |             |             |
| <b>BALANCE AT END OF YEAR</b>                 | <b>\$ -</b> | <b>\$ -</b> |

*The accompanying notes, starting on page 21, are an integral part of these financial statements.*

MICHIGAN TECHNOLOGICAL UNIVERSITY  
EXPENDABLE RESTRICTED FUND  
**STATEMENTS OF FINANCIAL CONDITION**  
JUNE 30, 1997 AND 1996  
(in thousands)

|  | 1997          | 1996          |
|--|---------------|---------------|
| <b>ASSETS:</b>   |               |               |
| Accounts receivable, less allowance of<br>\$100 in 1997 and 1996 | \$ 5,894      | \$ 5,779      |
| Total assets   | 5,894         | 5,779         |
|  |               |               |
|  |               |               |
|  |               |               |
| <b>LIABILITIES:</b>  |               |               |
| Accounts payable   | 660           | 196           |
| Accrued payroll and payroll taxes                                | 678           | 617           |
| Unearned revenue   | 2,630         | 2,620         |
| Due to other funds   | 1,007         | 1,480         |
| Total liabilities  | 4,975         | 4,913         |
|  |               |               |
|  |               |               |
| <b>FUND BALANCE</b>  | <b>\$ 919</b> | <b>\$ 866</b> |

*The accompanying notes, starting on page 21, are an integral part of these financial statements*

MICHIGAN TECHNOLOGICAL UNIVERSITY  
EXPENDABLE RESTRICTED FUND  
**STATEMENTS OF CHANGES IN FUND BALANCES**  
FOR THE YEARS ENDED JUNE 30, 1997 AND 1996  
*(in thousands)*

|  | 1997          | 1996          |
|--|---------------|---------------|
| <b>BALANCE AT BEGINNING OF YEAR</b>  | \$ 866        | \$ 1,226      |
| Increase (decrease) in restricted revenues<br>held for future expenditures | 53            | (360)         |
|  |               |               |
|  |               |               |
|  |               |               |
|  |               |               |
|  |               |               |
|  |               |               |
|  |               |               |
|  |               |               |
| <b>BALANCE AT END OF YEAR</b>  | <u>\$ 919</u> | <u>\$ 866</u> |

*The accompanying notes, starting on page 21, are an integral part of these financial statements*

MICHIGAN TECHNOLOGICAL UNIVERSITY  
**STATEMENTS OF CURRENT FUNDS REVENUES, EXPENDITURES, TRANSFERS  
 AND CHANGES IN FUND BALANCE**  
 FOR THE YEARS ENDED JUNE 30, 1997 AND 1996  
*(in thousands)*

|   |               |              |               |                |                |               |                | Year Ended     |
|---|---------------|--------------|---------------|----------------|----------------|---------------|----------------|----------------|
|   | GENERAL       | DESIGNATED   | AUXILIARY     | RETIREMENT     |                | EXPENDABLE    | Total          | June 30, 1996  |
|   | FUND          | FUND         | ACTIVITIES    | & INSURANCE    | Sub-Total      | RESTRICTED    | Current        | Total          |
|   |               |              | FUND          | FUND           |                | FUND          | Funds          | Current Funds  |
| <b>REVENUES:</b>  |               |              |               |                |                |               |                |                |
| Tuition and fees  | \$ 29,755     | \$ 23        | \$ 277        | \$ -           | \$ 30,055      | \$ -          | \$ 30,055      | \$ 29,957      |
| State appropriations  | 44,537        | -            | -             | -              | 44,537         | 1,285         | 45,822         | 43,145         |
| Federal grants and contracts  | 93            | -            | -             | -              | 93             | 12,153        | 12,246         | 12,259         |
| Private gifts, grants and contracts                                     | 319           | 1,072        | 87            | -              | 1,458          | 10,983        | 12,441         | 10,142         |
| Indirect cost recoveries  | 5,382         | -            | -             | -              | 5,382          | -             | 5,382          | 4,966          |
| Investment income   | (332)         | 194          | 118           | 338            | 318            | (35)          | 283            | 990            |
| Net realized gains on investments                                       | -             | -            | -             | 974            | 974            | -             | 974            | 830            |
| Net unrealized gains on investments                                     | -             | -            | -             | 1,247          | 1,247          | -             | 1,247          | -              |
| Educational activities  | 2,910         | 2,085        | 617           | -              | 5,612          | 157           | 5,769          | 5,417          |
| Auxiliary activities  | -             | -            | 17,362        | -              | 17,362         | -             | 17,362         | 17,085         |
| Other   | -             | -            | 5             | 54             | 59             | -             | 59             | 13             |
| Decrease (increase) in restricted revenues held for future expenditures | -             | -            | -             | -              | -              | (53)          | (53)           | 360            |
| <b>Total revenues</b>   | <b>82,664</b> | <b>3,374</b> | <b>18,446</b> | <b>2,813</b>   | <b>107,097</b> | <b>24,490</b> | <b>131,587</b> | <b>125,164</b> |
| <b>EXPENDITURES AND MANDATORY TRANSFERS:</b>                            |               |              |               |                |                |               |                |                |
| <b>Educational and general expenditures-</b>                            |               |              |               |                |                |               |                |                |
| Instruction   | 39,848        | 1,882        | -             | -              | 41,630         | 673           | 42,203         | 41,479         |
| Research  | 1,991         | 1,106        | -             | -              | 3,097          | 21,070        | 24,167         | 23,894         |
| Public service  | 182           | 807          | -             | -              | 789            | 3,192         | 3,981          | 870            |
| Academic support  | 8,435         | 167          | -             | -              | 8,602          | 85            | 8,687          | 7,412          |
| Student services  | 3,842         | 41           | -             | -              | 3,883          | 209           | 4,092          | 3,987          |
| Institutional support   | 9,852         | 278          | -             | (7,127)        | 3,003          | 44            | 3,047          | 6,958          |
| Student financial support   | 9,123         | -            | -             | -              | 9,123          | 4,383         | 13,506         | 13,316         |
| Operation and maintenance of plant                                      | 6,849         | 2            | -             | -              | 6,851          | -             | 6,851          | 6,915          |
| <b>Educational and general expenditures</b>                             | <b>80,122</b> | <b>3,883</b> | <b>-</b>      | <b>(7,127)</b> | <b>76,878</b>  | <b>29,656</b> | <b>106,534</b> | <b>104,831</b> |
| <b>Mandatory transfers -</b>  |               |              |               |                |                |               |                |                |
| Research  | 1,738         | 82           | -             | 54             | 1,874          | (1,902)       | (28)           | -              |
| Institutional support   | 13            | -            | -             | -              | 13             | (13)          | -              | -              |
| Student financial support   | 886           | -            | -             | -              | 886            | (807)         | 79             | 133            |
| Other   | 6             | -            | -             | -              | 6              | (6)           | -              | -              |
| <b>Total educational and general</b>                                    | <b>82,765</b> | <b>3,965</b> | <b>-</b>      | <b>(7,073)</b> | <b>79,657</b>  | <b>26,928</b> | <b>106,585</b> | <b>104,964</b> |
| <b>Auxiliary activities -</b>   |               |              |               |                |                |               |                |                |
| Expenditures  | -             | -            | 18,742        | -              | 18,742         | -             | 18,742         | 17,085         |
| <b>Mandatory transfers -</b>  |               |              |               |                |                |               |                |                |
| Debt service  | -             | -            | 277           | -              | 277            | -             | 277            | 266            |
| <b>Total Auxiliary activities</b>                                       | <b>-</b>      | <b>-</b>     | <b>19,019</b> | <b>-</b>       | <b>19,019</b>  | <b>-</b>      | <b>19,019</b>  | <b>17,371</b>  |
| <b>Total expenditures and mandatory transfers</b>                       | <b>82,765</b> | <b>3,965</b> | <b>19,019</b> | <b>(7,073)</b> | <b>98,676</b>  | <b>26,928</b> | <b>125,604</b> | <b>122,335</b> |



MICHIGAN TECHNOLOGICAL UNIVERSITY  
**STATEMENTS OF CURRENT FUNDS REVENUES, EXPENDITURES, TRANSFERS  
AND CHANGES IN FUND BALANCE (continued)**  
FOR THE YEARS ENDED JUNE 30, 1997 AND 1996  
(in thousands)

|  |                 |                 |               |              |                 | Year Ended    |                 |
|--|-----------------|-----------------|---------------|--------------|-----------------|---------------|-----------------|
|  | GENERAL         | DESIGNATED      | AUXILIARY     | RETIREMENT   | EXPENDABLE      | Total         | June 30, 1996   |
|  | FUND            | FUND            | ACTIVITIES    | & INSURANCE  | RESTRICTED      | Current       | Total           |
|  |                 |                 | FUND          | FUND         | FUND            | Funds         | Current Funds   |
| <b>Other transfers:</b>  |                 |                 |               |              |                 |               |                 |
| Research   | 1,844           | (852)           | -             | -            | 992             | (992)         | -               |
| Student financial support  | 836             | -               | -             | -            | 836             | (836)         | -               |
| Plant improvement  | 923             | 10              | 1,432         | -            | 2,365           | (238)         | 4,009           |
| Other  | (8,115)         | (345)           | (865)         | 9,686        | 361             | (11)          | (110)           |
|  | <u>78,253</u>   | <u>2,778</u>    | <u>19,586</u> | <u>2,613</u> | <u>103,230</u>  | <u>24,490</u> | <u>127,720</u>  |
|  |                 |                 |               |              |                 |               | <u>128,234</u>  |
| <b>REVENUES OVER (UNDER) EXPENDITURES<br/>AND TRANSFERS</b>                        | 4,411           | 596             | (1,140)       | -            | 3,867           | -             | 3,867           |
|  |                 |                 |               |              |                 |               | (1,070)         |
| <b>(DECREASE) INCREASE IN RESTRICTED REVENUES<br/>HELD FOR FUTURE EXPENDITURES</b> | -               | -               | -             | -            | -               | 53            | 53              |
|  |                 |                 |               |              |                 |               | (380)           |
| <b>FUND BALANCES (DEFICITS),<br/>Beginning of year</b>                             | (2,496)         | 2,638           | 1,514         | -            | 1,656           | 866           | 2,522           |
|  |                 |                 |               |              |                 |               | 3,952           |
| <b>FUND BALANCES,<br/>End of year</b>  | <u>\$ 1,915</u> | <u>\$ 3,234</u> | <u>\$ 374</u> | <u>\$ -</u>  | <u>\$ 5,523</u> | <u>\$ 919</u> | <u>\$ 6,442</u> |
|  |                 |                 |               |              |                 |               | <u>\$ 2,522</u> |

*The accompanying notes, starting on page 21, are an integral part of these financial statements.*

MICHIGAN TECHNOLOGICAL UNIVERSITY  
STUDENT LOAN FUND  
**STATEMENTS OF FINANCIAL CONDITION**  
JUNE 30, 1997 and 1996  
(in thousands)

|   | 1997            | 1996            |
|---|-----------------|-----------------|
| <b>ASSETS:</b>  |                 |                 |
| Cash and cash equivalents   | \$ 1,076        | \$ 814          |
| Student loans receivable, less allowance<br>of \$175 in 1997 and 1996 | 8,563           | 8,272           |
| Total assets  | <u>\$ 9,639</u> | <u>\$ 9,086</u> |

|                                       |                 |                 |
|---------------------------------------|-----------------|-----------------|
| <b>FUND BALANCE:</b>                  |                 |                 |
| <i>University student loan funds-</i> |                 |                 |
| Restricted                            | \$ 1,155        | \$ 1,108        |
| Unrestricted                          | 88              | 88              |
| <i>Federal student loan funds-</i>    |                 |                 |
| Federal portion                       | 7,966           | 7,460           |
| University portion                    | 430             | 430             |
| Total fund balance                    | <u>\$ 9,639</u> | <u>\$ 9,086</u> |

**STATEMENTS OF CHANGES IN FUND BALANCE**

|  | YEAR ENDED JUNE 30, 1997            |                                  |                 | Year Ended<br>June 30,<br>1996 |
|--|-------------------------------------|----------------------------------|-----------------|--------------------------------|
|  | University<br>Student<br>Loan Funds | Federal<br>Student<br>Loan Funds | Total           | Total                          |
| <b>BALANCE AT BEGINNING OF YEAR</b>                    | \$ 1,196                            | \$ 7,890                         | \$ 9,086        | \$ 8,471                       |
| <b>ADDITIONS (DEDUCTIONS):</b>                         |                                     |                                  |                 |                                |
| Federal government contribution                        | -                                   | 231                              | 231             | 305                            |
| Transfer from General Fund                             | -                                   | 79                               | 79              | 133                            |
| Other transfers  | (11)                                | -                                | (11)            | (12)                           |
| Investment Income                                      | 37                                  | 18                               | 55              | 35                             |
| Student loan interest                                  | 21                                  | 173                              | 194             | 193                            |
| Late fees  | -                                   | 6                                | 6               | 4                              |
| Cancellations for teaching, military<br>and bankruptcy | -                                   | (1)                              | (1)             | (8)                            |
| Administrative and other costs                         | -                                   | -                                | -               | (35)                           |
| <b>BALANCE AT END OF YEAR</b>                          | <u>\$ 1,243</u>                     | <u>\$ 8,396</u>                  | <u>\$ 9,639</u> | <u>\$ 9,086</u>                |

The accompanying notes, starting on page 21, are an integral part of these financial statements.

MICHIGAN TECHNOLOGICAL UNIVERSITY  
ENDOWMENT FUND  
**STATEMENTS OF FINANCIAL CONDITION**  
JUNE 30, 1997 and 1996  
(in thousands)

|                                | 1997        | 1996            |
|--------------------------------|-------------|-----------------|
| <b>ASSETS:</b>                 |             |                 |
| Cash and cash equivalents      | \$ -        | \$ 3            |
| Investments                    | -           | 1,732           |
| <b>Total assets</b>            | <b>\$ -</b> | <b>\$ 1,735</b> |
| <b>FUND BALANCE:</b>           |             |                 |
| Endowment funds                | \$ -        | \$ 446          |
| Funds functioning as endowment | -           | 1,289           |
| <b>Total fund balance</b>      | <b>\$ -</b> | <b>\$ 1,735</b> |

**STATEMENTS OF CHANGES IN FUND BALANCE**

|  | YEAR ENDED JUNE 30, 1997 |                                      |             | Year Ended<br>June 30,<br>1996 |
|--|--------------------------|--------------------------------------|-------------|--------------------------------|
|  | Endowment<br>Funds       | Funds<br>Functioning<br>As Endowment | Total       | Total                          |
| <b>BALANCE AT BEGINNING OF YEAR</b>            | \$ 446                   | \$ 1,289                             | \$ 1,735    | \$ 1,525                       |
| <b>ADDITIONS (DEDUCTIONS):</b>                 |                          |                                      |             |                                |
| Investment income                              | 5                        | 39                                   | 44          | 53                             |
| Distribution to beneficiaries                  | (5)                      | (20)                                 | (25)        | (46)                           |
| Net realized gains from sale of<br>investments | -                        | 31                                   | 31          | 78                             |
| Net unrealized gains on investments            | -                        | -                                    | -           | 125                            |
| Transfer to Michigan Tech Fund                 | (446)                    | (1,339)                              | (1,785)     | -                              |
| <b>BALANCE AT END OF YEAR</b>                  | <b>\$ -</b>              | <b>\$ -</b>                          | <b>\$ -</b> | <b>\$ 1,735</b>                |

The accompanying notes, starting on page 21, are an integral part of these financial statements.



MICHIGAN TECHNOLOGICAL UNIVERSITY  
PLANT FUND  
**STATEMENTS OF FINANCIAL CONDITION**  
(in thousands)

JUNE 30, 1997

|  | Unexpended      | Renewal and<br>Replacement | Retirement of<br>Indebtedness | Investment<br>in Plant | Total             | JUNE 30, 1996<br>Total |
|--|-----------------|----------------------------|-------------------------------|------------------------|-------------------|------------------------|
| <b>ASSETS:</b>   |                 |                            |                               |                        |                   |                        |
| Cash and cash equivalents  | \$ 3,602        | \$ 1,447                   | \$ 476                        | \$ -                   | \$ 5,525          | \$ 7,060               |
| Prepaid expenses   | -               | 15                         | -                             | -                      | 15                | 15                     |
| Investment in plant-   |                 |                            |                               |                        |                   |                        |
| Land and land improvements   | -               | -                          | -                             | 16,270                 | 16,270            | 15,062                 |
| Buildings  | -               | -                          | -                             | 129,606                | 129,606           | 128,866                |
| Deferred financing costs   | -               | -                          | -                             | 170                    | 170               | 170                    |
| Equipment and other  | -               | -                          | -                             | 80,232                 | 80,232            | 74,290                 |
| Construction in progress   | -               | -                          | -                             | 8,243                  | 8,243             | 2,075                  |
| Less- accumulated depreciation   | -               | -                          | -                             | (123,746)              | (123,746)         | (116,570)              |
| Total assets   | <u>3,602</u>    | <u>1,462</u>               | <u>476</u>                    | <u>110,775</u>         | <u>116,315</u>    | <u>110,968</u>         |
| <b>LIABILITIES:</b>  |                 |                            |                               |                        |                   |                        |
| Current portion of notes, bonds and<br>capital lease obligations payable | -               | -                          | -                             | 481                    | 481               | 449                    |
| Accounts payable   | 41              | 423                        | -                             | -                      | 464               | 464                    |
| Accrued payroll and payroll taxes  | -               | -                          | -                             | -                      | -                 | -                      |
| Notes, bonds and capital lease<br>obligations payable                    | -               | -                          | -                             | 3,193                  | 3,193             | 3,074                  |
| Total liabilities  | <u>41</u>       | <u>423</u>                 | <u>-</u>                      | <u>3,674</u>           | <u>4,138</u>      | <u>3,987</u>           |
| <b>FUND BALANCE:</b>   |                 |                            |                               |                        |                   |                        |
| Investment in physical properties  | -               | -                          | -                             | 107,101                | 107,101           | 100,370                |
| Restricted   | 359             | -                          | -                             | -                      | 359               | 881                    |
| Designated   | 3,202           | 1,039                      | 476                           | -                      | 4,717             | 5,730                  |
| Total fund balance   | <u>\$ 3,561</u> | <u>\$ 1,039</u>            | <u>\$ 476</u>                 | <u>\$ 107,101</u>      | <u>\$ 112,177</u> | <u>\$ 106,981</u>      |

The accompanying notes, starting on page 21, are an integral part of these financial statements.



MICHIGAN TECHNOLOGICAL UNIVERSITY  
PLANT FUND  
**STATEMENTS OF CHANGES IN NOTES, BONDS, CAPITAL LEASE OBLIGATIONS  
PAYABLE AND FUND BALANCE**  
(in thousands)

|   | YEAR ENDED JUNE 30, 1997 |                            |                               |                        |                   | Year Ended             |
|---|--------------------------|----------------------------|-------------------------------|------------------------|-------------------|------------------------|
|   | Unexpended               | Renewal and<br>Replacement | Retirement of<br>Indebtedness | Investment<br>In Plant | Total             | June 30, 1996<br>Total |
| <b>NOTES, BONDS AND CAPITAL LEASE</b>       |                          |                            |                               |                        |                   |                        |
| <b>OBLIGATIONS PAYABLE:</b>                 |                          |                            |                               |                        |                   |                        |
| Balance outstanding at beginning of year    | \$ -                     | \$ -                       | \$ -                          | \$ 3,523               | \$ 3,523          | \$ 3,355               |
| Proceeds from borrowing                     | -                        | -                          | -                             | 600                    | 600               | 491                    |
| Payments on notes, bonds and capital leases | -                        | -                          | -                             | (449)                  | (449)             | (323)                  |
| Balance at end of year                      | <u>\$ -</u>              | <u>\$ -</u>                | <u>\$ -</u>                   | <u>\$ 3,674</u>        | <u>\$ 3,674</u>   | <u>\$ 3,523</u>        |
| <b>FUND BALANCE:</b>                        |                          |                            |                               |                        |                   |                        |
| Balance at beginning of year                | \$ 2,779                 | \$ 3,030                   | \$ 802                        | \$ 100,370             | \$ 106,981        | \$ 107,313             |
| Additions (Deductions)-                     |                          |                            |                               |                        |                   |                        |
| Joint capital outlay                        | 6,733                    | -                          | -                             | -                      | 6,733             | 1,088                  |
| Gifts and other grants                      | 400                      | 167                        | -                             | 234                    | 801               | 1,074                  |
| Investment income                           | 3                        | 216                        | -                             | -                      | 219               | 359                    |
| Other income                                | -                        | 3                          | -                             | -                      | 3                 | 2                      |
| Transfers from (to) other funds-            |                          |                            |                               |                        |                   |                        |
| General fund                                | 94                       | 846                        | -                             | -                      | 940               | 804                    |
| Designated fund                             | -                        | 10                         | -                             | -                      | 10                | -                      |
| Auxiliary activities fund                   | 696                      | 693                        | 303                           | -                      | 1,692             | 3,399                  |
| Expendable restricted fund                  | (238)                    | (28)                       | -                             | -                      | (266)             | (6)                    |
| Other                                       | (67)                     | 667                        | -                             | (600)                  | -                 | -                      |
| Expenditures from operating funds for       |                          |                            |                               |                        |                   |                        |
| equipment                                   | -                        | -                          | -                             | 6,801                  | 6,801             | 4,354                  |
| Expenditures not capitalized                | (589)                    | (1,435)                    | -                             | -                      | (2,024)           | (2,427)                |
| Expenditures for capital additions          | (6,013)                  | (3,130)                    | -                             | 9,143                  | -                 | -                      |
| Interest expense                            | -                        | -                          | (180)                         | -                      | (180)             | (142)                  |
| Payments on notes, bonds and capital leases | -                        | -                          | (449)                         | 449                    | -                 | -                      |
| Plant assets sold or retired, net           | -                        | -                          | -                             | (187)                  | (187)             | (231)                  |
| Depreciation allowance                      | -                        | -                          | -                             | (9,109)                | (9,109)           | (8,606)                |
| Transfers to Michigan Tech Fund             | (237)                    | -                          | -                             | -                      | (237)             | -                      |
| Balance at end of year                      | <u>\$ 3,561</u>          | <u>\$ 1,039</u>            | <u>\$ 476</u>                 | <u>\$ 107,101</u>      | <u>\$ 112,177</u> | <u>\$ 106,981</u>      |

The accompanying notes, starting on page 21, are an integral part of these financial statements

MICHIGAN TECHNOLOGICAL UNIVERSITY  
 AGENCY FUND  
**STATEMENTS OF FINANCIAL CONDITION**  
 JUNE 30, 1997 and 1996  
*(in thousands)*

|                                   | 1997          | 1996          |
|-----------------------------------|---------------|---------------|
| <b>ASSETS:</b>                    |               |               |
| Cash and cash equivalents         | \$ 152        | \$ 109        |
| Accounts receivable               | 200           | 264           |
| Total assets                      | <u>352</u>    | <u>373</u>    |
|                                   |               |               |
| <b>LIABILITIES:</b>               |               |               |
| Accounts payable                  | 4             | 36            |
| Accrued payroll and payroll taxes | 58            | 26            |
| Deposits                          | 290           | 311           |
| Total liabilities                 | <u>\$ 352</u> | <u>\$ 373</u> |

*The accompanying notes, starting on page 21, are an integral part of these financial statements.*

## MICHIGAN TECHNOLOGICAL UNIVERSITY

### NOTES TO THE FINANCIAL STATEMENTS

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#### (1) BASIS OF PRESENTATION AND SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

##### ***Basis of Presentation***

The financial statements have been prepared in all material respects in accordance with accounting principles outlined in the *Manual for Uniform Reporting - State of Michigan Colleges and Universities*, as revised, and the American Institute of Certified Public Accountants' guide, *Audits of Colleges and Universities*, and *Governmental Accounting Standards Board*.

##### ***Fund Classifications***

The current funds consist of the General, Designated (use restricted by University policy), Auxiliary Activities, Retirement and Insurance (used to account for employee benefits and risk financing activities) and Expendable Restricted Fund (use restricted by donor or supporting agency). These funds are used to account for transactions related to instructional and academic programs (including restricted purpose contracts and grants, research, extension and departmental programs) and the auxiliary activities which provide services to the student body, faculty, staff and public. The accompanying statements of current funds revenues, expenditures, transfers and changes in fund balances are statements of financial activities of the current funds and do not purport to present the results of operations or the net income or loss for the period.

The other funds and their functions are described as follows: (1) the Student Loan Fund is used to account for transactions related to loans to students, (2) the Endowment Fund is used to account for gifts which allow only the income thereon to be expended and includes similar funds under Board control, (3) the Plant Fund contains the transactions relating to investment in physical properties, indebtedness incurred in the financing thereof and reserves for maintenance and replacement and (4) the Agency Fund is used to account for amounts withheld from payrolls, employer portions of payroll taxes and various employee benefits and amounts held in custody for students, University-related organizations or others.

# MICHIGAN TECHNOLOGICAL UNIVERSITY

## NOTES TO THE FINANCIAL STATEMENTS (continued)

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### ***Summary of Significant Accounting Policies***

#### ***Accrual Accounting***

The accompanying financial statements have been prepared on the accrual basis, except for the following, which are common practices in colleges and universities: (1) interest on student loans is recognized when received, (2) interest expense is recognized when paid, (3) gifts, grants and pledges are recognized when received or when billable, (4) Expendable Restricted Fund revenue is recognized only to the extent expended, (5) State appropriations for operations are recognized when received or made available and (6) revenue and expenditures of an academic term are reported in the fiscal year in which the program is predominantly conducted.

The accrual basis of accounting provides that expenditures include only amounts associated with goods and services received and that liabilities include only the unpaid amounts associated with such expenditures. Accordingly, outstanding purchase orders and commitments not reported in the financial statements totaled (in thousands) \$5,322 and \$3,749 at June 30, 1997 and 1996, respectively.

#### ***Income Taxes***

The University is classified as a political subdivision of the State of Michigan under Internal Revenue Code Section 115(A) and is therefore exempt from Federal Income Taxes. Certain activities of the University, to the extent profitable, may be subject to taxation as unrelated business income.

#### ***Cash and Cash Equivalents***

For purposes of the statement of cash flows, the University considers all highly liquid investments (including restricted assets) with a maturity of three months or less when purchased to be cash equivalents.

#### ***Inventories***

Inventories are valued at the lower of cost or market determined on a first-in, first-out basis.

#### ***Investments and Marketable Securities***

Investments are valued at market

#### ***Property, Plant and Equipment***

Physical properties are stated at cost when purchased. Other acquisitions are stated at appraised value on date of receipt. Amounts expended directly from current funds for equipment or other capital additions are included in expenditures or transfers of such funds and are capitalized in the Plant Fund. Repair and maintenance and equipment replacement reserves have been established to provide for significant repair and maintenance costs to residences and certain other facilities.

# MICHIGAN TECHNOLOGICAL UNIVERSITY

## NOTES TO THE FINANCIAL STATEMENTS (continued)

### Depreciation

Depreciation is provided for physical properties on a straight line basis over the estimated useful life of the property, as follows:

| <u>Classification</u> | <u>Life</u> |
|-----------------------|-------------|
| Land Improvements     | 20 years    |
| Buildings             | 40 years    |
| Computer Equipment    | 5 years     |
| Equipment             | 7 years     |
| Library Books         | 5 years     |

Depreciation expense (in thousands) for 1997 and 1996 is approximately \$9,109 and \$8,606, respectively.

### Reclassifications

Certain fiscal year 1996 amounts have been reclassified to conform with the fiscal year 1997 financial statement presentation.

## (2) CASH AND INVESTMENTS

*Authorizations:* The University investment policies are governed and authorized by University Bylaws and the Board of Control. The Board of Control authorized the transfer of the University's entire Endowment investment pool (in thousands) of \$1,785 to the Michigan Tech Fund.

The University utilizes the "pooled cash" method of accounting for substantially all of its cash and cash equivalents. Investment policies for cash and cash equivalents, as set forth by the Board of Control, authorize the University to invest, with limitations, in commercial paper rated within the two highest classifications of prime as established by at least one of the standard rating services. Investments may also be made in securities of the U.S. Treasury and Federal agencies, and in time savings accounts.

Policies regarding investments and marketable securities in the current funds, Endowment Fund, and Retirement and Insurance Fund, as set forth by the Board of Control, authorize the University to invest in U.S. Treasury Obligations; commercial paper rated within the two highest classifications of prime as established by at least one of the standard rating services; or Federal agency securities certificates of deposit issued by FDIC insurance banks, FSLIC insured savings and loan associations, or an NCUA credit union member; or Eurodollar time deposits in Tier 1, 2, or 3 banks.

*Deposits:* Deposits with banks are generally uninsured. The cash and cash held for investments were as follows as of June 30, 1997 and 1996 (in thousands):

|                                  | <u>1997</u>     | <u>1996</u>      |
|----------------------------------|-----------------|------------------|
| Cash                             | \$ (120)        | \$ (332)         |
| Cash held for investments, which | <u>9,824</u>    | <u>11,619</u>    |
| earned 5.3% in 1997 and 5.9%     |                 |                  |
| in 1996                          | <u>\$ 9,704</u> | <u>\$ 11,287</u> |

# MICHIGAN TECHNOLOGICAL UNIVERSITY

## NOTES TO THE FINANCIAL STATEMENTS (continued)

Of the total bank balances for cash, \$125 at June 30, 1997 and \$134 at June 30, 1996 were covered by federal depository insurance. The remaining amounts were uninsured and uncollateralized, as the University is precluded by state law from collateralizing its deposits.

*Investments:* During 1996, the University adopted the Governmental Accounting Standards Board Statement 31. This Statement allows governmental entities to report investments at fair value in the statements of financial condition. In accordance with Governmental Accounting Standards Board's Statement 3, investments are classified into three categories of custodial credit risk. MTU's investments fit into credit risk category III: investments that are uninsured and unregistered with securities held by the counterparty or by its trust department or agent, but not in the University's name. At June 30, 1997 and 1996, the University's investments included the following (in thousands):

|                             | 1997          |               | 1996          |               |
|-----------------------------|---------------|---------------|---------------|---------------|
|                             | <u>Cost</u>   | <u>Market</u> | <u>Cost</u>   | <u>Market</u> |
| Certificate of Deposits     | \$ -----      | \$ -----      | \$ 174        | \$ 174        |
| U.S. Treasuries/agencies    | -----         | -----         | 39            | 40            |
| Government Obligations Fund | <u>521</u>    | <u>521</u>    | <u>52</u>     | <u>52</u>     |
|                             | <u>\$ 521</u> | <u>\$ 521</u> | <u>\$ 265</u> | <u>\$ 266</u> |

In addition to the above, the University has pooled investments held by trust companies and invested in a variety of mutual funds managed by investment managers. The costs (in thousands) of these investments as of June 30, 1997 and 1996 were \$9,000 and \$11,964, respectively. The corresponding market values were \$11,078 and \$12,920. This amount takes into account all changes in fair value (including purchases and sales) that occurred during the year.

The University realized net gains of \$1,005 and \$78 (in thousands) from the sale of investments in fiscal years 1997 and 1996, respectively. The calculation of realized gains is independent of the calculation of the net increase in the fair value of investments. Realized gains on investments that had been held in more than one fiscal year and sold in the current year may have been recognized as an increase in the fair value of investments reported in the prior year. The unrealized gains on investments held as of June 30, 1997 and 1996 were \$1,247 and \$955.

The returns on investments and marketable securities, excluding the base cash pool reserve for the years ended June 30, 1997 and 1996 were as follows :

|                                   | <u>1997</u>  | <u>1996</u>  |
|-----------------------------------|--------------|--------------|
| Interest and dividends            | 3.0%         | 7.2%         |
| Realized and unrealized net gains | <u>21.9%</u> | <u>8.4%</u>  |
| Total return                      | <u>24.9%</u> | <u>15.6%</u> |

**MICHIGAN TECHNOLOGICAL UNIVERSITY**  
**NOTES TO THE FINANCIAL STATEMENTS (continued)**

**(3) NOTE, BONDS, AND CAPITAL LEASE OBLIGATION PAYABLE**

*Note*

In October 1996, the University took out a \$600 (in thousands) note payable for its Pro Shop renovation and expansion. The interest rate is 6.125%. Monthly principal payments will be made from July 1997 through August 2001. A balloon principal payment of \$522 will be made in September 2001.

*Bonds*

In fiscal year 1994, the University defeased in substance the 1989 issue of General Revenue Bonds with an issue of General Revenue Refunding Bonds valued at \$3,585. These bonds bear interest at 2.80% to 5.10% and mature at various dates through 2008. As of June 30, 1997 and 1996, \$2,775 and \$3,070 were outstanding.

*Capital Lease Obligation*

In March 1996, the University entered into a capital lease agreement of \$491 (in thousands) for the purchase of a building that will house the University Career Center. The interest rate is 7.50% with monthly payments of \$15,262 over 3 years.

Annual maturities for all remaining debt obligations are for the fiscal year ending June 30 as follows (in thousands):

|            |                 |
|------------|-----------------|
| 1998       | \$ 481          |
| 1999       | 461             |
| 2000       | 350             |
| 2001       | 366             |
| 2002       | 681             |
| Thereafter | <u>1,335</u>    |
|            | \$ <u>3,674</u> |

**(4) LINE OF CREDIT**

The University has an unused line of credit arrangement with one bank under which it may borrow up to \$10,000,000 at a rate of 5.6%. There are no commitment fees and no conditions associated with this line of credit.

# MICHIGAN TECHNOLOGICAL UNIVERSITY

## NOTES TO THE FINANCIAL STATEMENTS (continued)

### (5) POST-EMPLOYMENT BENEFITS

The University offers participation in one of two retirement plans for all qualified employees: the Michigan Public School Employees' Retirement System (MPERS) and the Teachers Insurance and Annuities Association College Retirement Equities Fund (TIAA-CREF).

MPERS is a non-contributory defined benefit retirement plan through the Michigan State Employees' Retirement System Plan (the "Plan"). Due to State of Michigan House Bill HB4047, employees hired after December 31, 1995 can no longer participate in this retirement plan, unless they were previously enrolled in the plan at the University or one of the other six universities that are part of MPERS. Further pension data, audited by the Office of the Auditor General of the State of Michigan, for the State Employees' Retirement System is included in the State of Michigan's Comprehensive Annual Financial Report.

During fiscal year 1997, the University implemented the funding policy changes finalized by MPERS. An actuarial valuation was prepared for MPERS that separated the plan into two components—university members and all other members. The valuation determined the university members' portion of plan assets and unfunded actuarial accrued liability (UAAL). The new funding policy calls for continued contributions for active members at 7.50% of member payroll. To fund the costs of the UAAL over the next forty years, the University will make additional contributions at a rate that will be determined annually. The fiscal year 1997 rate was 3.88% of MPERS defined payroll. The University is also required to pay a \$66,000 monthly supplemental contribution for retiree health care benefits. The footnote disclosures reflect the funding policy changes.

The TIAA-CREF Plan is a defined contribution retirement plan. All employees, who work at least 3/4 time are eligible to participate in the TIAA-CREF plan. For employees hired after December 31, 1995 employer contributions begin two years after date of hire or age 35 whichever is sooner. Employee benefits vest immediately. The University contributes a specified percentage of employee wages and has no liability beyond its own contribution. Contributions and covered payroll under the plans (excluding participants' additional contributions) are summarized as follows (in thousands):

|                                       | Year ended June 30, |          |
|---------------------------------------|---------------------|----------|
|                                       | 1997                | 1996     |
| University contributions to MPERS     | \$ 1,858            | \$ 2,199 |
| MPERS retiree health insurance        | 385                 | ----     |
| MPERS unfunded pension costs          | 627                 | ----     |
| Payroll covered under MPERS           | 15,142              | 16,034   |
| University contributions to TIAA-CREF | 3,664               | 3,572    |
| Payroll covered under TIAA-CREF       | 34,872              | 33,854   |

The University subsidizes a medical benefits plan for TIAA-CREF eligible University employees who have or will have retired from October 19, 1992 through June 30, 2006. The University recognizes the cost of providing this benefit on a pay-as-you-go basis, which is included in the current funds' expenditures.

During 1997, the Board approved a change in the plan's benefits. With the plan revisions in 1998, the University will match the 1% of salary employee contribution to the employee's TIAA-CREF retirement annuity. For subsequent years, the University will match the employee's 2% of salary contribution.

From 1999 to 2006, the retired employee's contribution for health care benefits will increase from 20% to 100%. The University's subsidy will likewise decrease for fiscal year 2007 and beyond because retired employees will be responsible for 100% of their health care costs. They can pay for their coverage with their annuity.



**MICHIGAN TECHNOLOGICAL UNIVERSITY**  
**NOTES TO THE FINANCIAL STATEMENTS (continued)**

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**(6) LIABILITY AND PROPERTY INSURANCE**

The University participates in the Michigan Universities Self-Insurance Corporation (MUSIC), which provides indemnity to members against auto, comprehensive general liability, errors and omissions, and property losses commonly covered by insurance. MUSIC also provides risk management and loss control services and programs.

Loss coverages are structured on a three layer basis with each member retaining a portion of its losses, MUSIC covering the second layer of losses and commercial carriers covering the third layer. Comprehensive general liability coverage is provided on an occurrence basis; errors and omissions coverage is provided on a claims made basis.

In the event of excess assets, MUSIC will either return the surplus, credit the surplus toward future payments or provide for increased coverages. Recommended reserves for both the corporation and each member are actuarially determined on an annual basis. The corporation will be self-sustaining through member payments and will purchase commercial coverage for claims in excess of established annual limits for each line of coverage. Members may fund their respective reserves as they deem appropriate.

Premiums are assessed annually for (1) insurance risks retained by MUSIC, (2) costs related to excess coverage and (3) general and administrative expenses.

**(7) UNIVERSITY SUPPORT ORGANIZATIONS**

During fiscal year 1997, the Board of Control approved the transfer of the University's Endowment assets to the Michigan Tech Fund. The transfer was completed in October 1996.

The Michigan Tech Fund (MTF) is an independent nonprofit corporation formed for the exclusive benefit of the University. MTF is a tax exempt support organization engaged in traditional fund raising programs. The accompanying financial statements do not include the net assets of MTF. The net assets of the MTF were \$28.5 million and \$23.1 million as of June 30, 1997 and 1996, respectively. Included in the net assets above, MTF has an endowment with a market value of \$22.6 million and \$21.4 million as of June 30, 1997 and 1996, respectively. Contributions to MTF on behalf of the University approximated \$3.9 million in 1997 and \$12.2 million in 1996.

**(8) COMMITMENTS AND CONTINGENCIES**

Internally funded reserves and accrued liabilities for employee benefits are included in the Retirement & Insurance fund. Accrued liabilities are generally based on actuarial valuations and represent the present value of unpaid expected claims, including estimates of claims incurred but not reported.

In the normal course of business, the University is named party to a number of lawsuits. In the opinion of management, the resolution of these suits will not have a material adverse effect on the University's financial position or results of operations.

The University has begun construction of its \$44 million Environmental Sciences Engineering Building. The State of Michigan Building Authority has sold bonds and will provide \$30 million for the construction, while the University will provide \$14 million. The University is also committed to building a \$20 million Performing Arts Education Center. The State of Michigan has appropriated \$5 million for the Center and the University will raise \$15 million from private funds.

MICHIGAN TECHNOLOGICAL UNIVERSITY  
**COMBINING STATEMENT OF FINANCIAL CONDITION**  
 JUNE 30, 1997  
*(in thousands)*

|   | GENERAL<br>FUND | DESIGNATED<br>FUND | AUXILIARY<br>ACTIVITIES<br>FUND | RETIREMENT<br>& INSURANCE<br>FUND | EXPENDABLE<br>RESTRICTED<br>FUND | STUDENT<br>LOAN<br>FUND | ENDOWMENT<br>FUND | PLANT<br>FUND     | AGENCY<br>FUND | COMBINED<br>TOTAL |
|---|-----------------|--------------------|---------------------------------|-----------------------------------|----------------------------------|-------------------------|-------------------|-------------------|----------------|-------------------|
| <b>ASSETS</b>   |                 |                    |                                 |                                   |                                  |                         |                   |                   |                |                   |
| <b>CURRENT ASSETS:</b>  |                 |                    |                                 |                                   |                                  |                         |                   |                   |                |                   |
| Cash and cash equivalents   | \$ 1,004        | \$ 1,947           | \$ -                            | \$ -                              | \$ -                             | \$ 1,076                | \$ -              | \$ 5,525          | \$ 152         | \$ 9,704          |
| Accounts receivable, net  | 503             | 70                 | 498                             | 314                               | 5,894                            | -                       | -                 | -                 | 200            | 7,479             |
| Inventories   | 196             | -                  | 1,620                           | -                                 | -                                | -                       | -                 | -                 | -              | 1,816             |
| Prepaid expenses  | 287             | 248                | 56                              | -                                 | -                                | -                       | -                 | 15                | -              | 606               |
| Due (to) from other funds   | 5,689           | 1,938              | (931)                           | (5,689)                           | (1,007)                          | -                       | -                 | -                 | -              | -                 |
|   | 7,679           | 4,203              | 1,243                           | (5,375)                           | 4,887                            | 1,076                   | -                 | 5,540             | 352            | 19,605            |
| <b>STUDENT LOANS RECEIVABLE, net</b>                                  | -               | -                  | -                               | -                                 | -                                | 8,563                   | -                 | -                 | -              | 8,563             |
| <b>INVESTMENTS</b>  | -               | -                  | -                               | 11,599                            | -                                | -                       | -                 | -                 | -              | 11,599            |
| <b>PROPERTY, PLANT and EQUIPMENT, net</b>                             | -               | -                  | -                               | -                                 | -                                | -                       | -                 | 110,775           | -              | 110,775           |
| <b>Total assets</b>   | <u>\$ 7,679</u> | <u>\$ 4,203</u>    | <u>\$ 1,243</u>                 | <u>\$ 6,224</u>                   | <u>\$ 4,887</u>                  | <u>\$ 9,639</u>         | <u>\$ -</u>       | <u>\$ 116,315</u> | <u>\$ 352</u>  | <u>\$ 150,542</u> |
| <b>LIABILITIES AND FUND BALANCE</b>                                   |                 |                    |                                 |                                   |                                  |                         |                   |                   |                |                   |
| <b>CURRENT LIABILITIES:</b>   |                 |                    |                                 |                                   |                                  |                         |                   |                   |                |                   |
| Current portion of notes, bonds and capital lease obligations payable | \$ -            | \$ -               | \$ -                            | \$ -                              | \$ -                             | \$ -                    | \$ -              | \$ 481            | \$ -           | \$ 481            |
| Accounts payable  | 425             | 113                | 342                             | 406                               | 660                              | -                       | -                 | 464               | 4              | 2,414             |
| Accrued payroll and payroll taxes                                     | 2,691           | 87                 | 285                             | 160                               | 678                              | -                       | -                 | -                 | 58             | 3,939             |
| Unearned revenue  | 2,036           | 740                | 17                              | -                                 | 2,630                            | -                       | -                 | -                 | -              | 5,423             |
| Deposits  | 612             | 29                 | 245                             | -                                 | -                                | -                       | -                 | -                 | 290            | 1,176             |
| Current portion of accrued health and liability claims                | -               | -                  | -                               | 2,128                             | -                                | -                       | -                 | -                 | -              | 2,128             |
| Accrued compensated absences  | -               | -                  | -                               | 2,224                             | -                                | -                       | -                 | -                 | -              | 2,224             |
|   | 5,764           | 969                | 869                             | 4,918                             | 3,968                            | -                       | -                 | 945               | 352            | 17,785            |
| <b>ACCRUED HEALTH AND LIABILITY CLAIMS</b>                            | -               | -                  | -                               | 1,306                             | -                                | -                       | -                 | -                 | -              | 1,306             |
| <b>NOTES, BONDS AND CAPITAL LEASE OBLIGATIONS PAYABLE</b>             | -               | -                  | -                               | -                                 | -                                | -                       | -                 | 3,193             | -              | 3,193             |
|   | 5,764           | 969                | 869                             | 6,224                             | 3,968                            | -                       | -                 | 4,138             | 352            | 22,284            |
| <b>FUND BALANCE:</b>  |                 |                    |                                 |                                   |                                  |                         |                   |                   |                |                   |
| Unrestricted  | 4,742           | 3,234              | 374                             | -                                 | -                                | 88                      | -                 | 4,717             | -              | 13,155            |
| Restricted  | -               | -                  | -                               | -                                 | 919                              | 9,551                   | -                 | 359               | -              | 10,829            |
| Investment in physical properties                                     | -               | -                  | -                               | -                                 | -                                | -                       | -                 | 107,101           | -              | 107,101           |
| Deficit to be funded in subsequent periods                            | (2,827)         | -                  | -                               | -                                 | -                                | -                       | -                 | -                 | -              | (2,827)           |
| <b>Total fund balance</b>   | <u>1,915</u>    | <u>3,234</u>       | <u>374</u>                      | <u>-</u>                          | <u>919</u>                       | <u>9,639</u>            | <u>-</u>          | <u>112,177</u>    | <u>-</u>       | <u>128,258</u>    |
| <b>Total liabilities and fund balance</b>                             | <u>\$ 7,679</u> | <u>\$ 4,203</u>    | <u>\$ 1,243</u>                 | <u>\$ 6,224</u>                   | <u>\$ 4,887</u>                  | <u>\$ 9,639</u>         | <u>\$ -</u>       | <u>\$ 116,315</u> | <u>\$ 352</u>  | <u>\$ 150,542</u> |

The accompanying notes, starting on page 21, are an integral part of these financial statements.

MICHIGAN TECHNOLOGICAL UNIVERSITY  
 COMBINING STATEMENT OF REVENUES, EXPENDITURES, TRANSFERS AND CHANGES IN FUND BALANCES  
 YEAR ENDED JUNE 30, 1997  
 (in thousands)

|   | GENERAL<br>FUND | DESIGNATED<br>FUND | AUXILIARY<br>ACTIVITIES<br>FUND | RETIREMENT<br>& INSURANCE<br>FUND | EXPENDABLE<br>RESTRICTED<br>FUND | STUDENT<br>LOAN<br>FUND | ENDOWMENT<br>FUND | PLANT<br>FUND     | COMBINED<br>TOTAL |
|---|-----------------|--------------------|---------------------------------|-----------------------------------|----------------------------------|-------------------------|-------------------|-------------------|-------------------|
| <b>REVENUES:</b>  |                 |                    |                                 |                                   |                                  |                         |                   |                   |                   |
| Tuition and fees  | \$ 29,755       | \$ 23              | \$ 277                          | \$ -                              | \$ -                             | \$ -                    | \$ -              | \$ -              | \$ 30,055         |
| State appropriations  | 44,537          | -                  | -                               | -                                 | 1,285                            | -                       | -                 | -                 | 45,822            |
| Federal grants and contracts  | 93              | -                  | -                               | -                                 | 12,153                           | 231                     | -                 | -                 | 12,477            |
| Joint capital outlay  | -               | -                  | -                               | -                                 | -                                | -                       | -                 | 6,733             | 6,733             |
| Private gifts, grants and contracts                                     | 319             | 1,072              | 67                              | -                                 | 10,983                           | -                       | -                 | 801               | 13,242            |
| Indirect cost recoveries  | 5,382           | -                  | -                               | -                                 | -                                | -                       | -                 | -                 | 5,382             |
| Endowment income  | -               | -                  | -                               | -                                 | -                                | -                       | 44                | -                 | 44                |
| Investment income   | (332)           | 194                | 118                             | 338                               | (35)                             | 249                     | -                 | 219               | 751               |
| Net realized gains on investments                                       | -               | -                  | -                               | 974                               | -                                | -                       | 31                | -                 | 1,005             |
| Net unrealized gains on investments                                     | -               | -                  | -                               | 1,247                             | -                                | -                       | -                 | -                 | 1,247             |
| Educational activities  | 2,910           | 2,085              | 617                             | -                                 | 157                              | -                       | -                 | -                 | 5,769             |
| Auxiliary activities  | -               | -                  | 17,362                          | -                                 | -                                | -                       | -                 | -                 | 17,362            |
| Other   | -               | -                  | 5                               | 54                                | -                                | 6                       | -                 | 3                 | 68                |
| Increase in restricted revenues<br>held for future expenditures         | -               | -                  | -                               | -                                 | (53)                             | -                       | -                 | -                 | (53)              |
| <b>Total revenues</b>   | <b>82,664</b>   | <b>3,374</b>       | <b>18,446</b>                   | <b>2,613</b>                      | <b>24,490</b>                    | <b>486</b>              | <b>75</b>         | <b>7,756</b>      | <b>139,904</b>    |
| <b>EXPENDITURES:</b>  |                 |                    |                                 |                                   |                                  |                         |                   |                   |                   |
| Educational and general-  |                 |                    |                                 |                                   |                                  |                         |                   |                   |                   |
| Instruction   | 39,848          | 1,682              | -                               | -                                 | 673                              | -                       | -                 | -                 | 42,203            |
| Research  | 1,991           | 1,106              | -                               | -                                 | 21,070                           | -                       | -                 | -                 | 24,167            |
| Public service  | 182             | 607                | -                               | -                                 | 3,192                            | -                       | -                 | -                 | 3,981             |
| Academic support  | 8,435           | 167                | -                               | -                                 | 85                               | -                       | -                 | -                 | 8,687             |
| Student services  | 3,842           | 41                 | -                               | -                                 | 209                              | -                       | -                 | -                 | 4,092             |
| Institutional support   | 9,852           | 278                | -                               | (7,127)                           | 44                               | -                       | -                 | -                 | 3,047             |
| Student financial support   | 9,123           | -                  | -                               | -                                 | 4,383                            | -                       | -                 | -                 | 13,506            |
| Operation and maintenance of plant                                      | 6,849           | 2                  | -                               | -                                 | -                                | -                       | -                 | -                 | 6,851             |
| Auxiliary activities  | -               | -                  | 18,742                          | -                                 | -                                | -                       | -                 | -                 | 18,742            |
| Transfers to Michigan Tech Fund   | -               | -                  | -                               | -                                 | -                                | -                       | 1,785             | 237               | 2,022             |
| Other   | -               | -                  | -                               | -                                 | -                                | 1                       | 25                | 2,024             | 2,050             |
| Interest expense  | -               | -                  | -                               | -                                 | -                                | -                       | -                 | 180               | 180               |
| Depreciation allowance  | -               | -                  | -                               | -                                 | -                                | -                       | -                 | 9,109             | 9,109             |
| Capital additions, net of retirements                                   | -               | -                  | -                               | -                                 | -                                | -                       | -                 | (6,614)           | (6,614)           |
| <b>Total expenditures</b>   | <b>80,122</b>   | <b>3,883</b>       | <b>18,742</b>                   | <b>(7,127)</b>                    | <b>29,656</b>                    | <b>1</b>                | <b>1,810</b>      | <b>4,936</b>      | <b>132,023</b>    |
| <b>MANDATORY TRANSFERS:</b>   |                 |                    |                                 |                                   |                                  |                         |                   |                   |                   |
| Research  | 1,738           | 82                 | -                               | 54                                | (1,902)                          | -                       | -                 | 28                | -                 |
| Institutional support   | 13              | -                  | -                               | -                                 | (13)                             | -                       | -                 | -                 | -                 |
| Student financial support   | 886             | -                  | -                               | -                                 | (807)                            | (79)                    | -                 | -                 | -                 |
| Debt service  | -               | -                  | 277                             | -                                 | -                                | -                       | -                 | (277)             | -                 |
| Other   | 6               | -                  | -                               | -                                 | (6)                              | -                       | -                 | -                 | -                 |
| <b>OTHER TRANSFERS:</b>   |                 |                    |                                 |                                   |                                  |                         |                   |                   |                   |
| Research  | 1,844           | (852)              | -                               | -                                 | (992)                            | -                       | -                 | -                 | -                 |
| Student financial support   | 836             | -                  | -                               | -                                 | (836)                            | -                       | -                 | -                 | -                 |
| Plant improvement   | 923             | 10                 | 1,432                           | -                                 | (238)                            | -                       | -                 | (2,127)           | -                 |
| Other   | (8,115)         | (345)              | (865)                           | 9,686                             | (372)                            | 11                      | -                 | -                 | -                 |
| <b>Total expenditures and transfers</b>                                 | <b>78,253</b>   | <b>2,778</b>       | <b>19,586</b>                   | <b>2,613</b>                      | <b>24,490</b>                    | <b>(67)</b>             | <b>1,810</b>      | <b>2,560</b>      | <b>132,023</b>    |
| <b>REVENUES OVER (UNDER) EXPENDITURES<br/>AND TRANSFERS</b>             | <b>4,411</b>    | <b>596</b>         | <b>(1,140)</b>                  | <b>-</b>                          | <b>-</b>                         | <b>553</b>              | <b>(1,735)</b>    | <b>5,196</b>      | <b>7,881</b>      |
| <b>INCREASE IN RESTRICTED REVENUES<br/>HELD FOR FUTURE EXPENDITURES</b> | <b>-</b>        | <b>-</b>           | <b>-</b>                        | <b>-</b>                          | <b>53</b>                        | <b>-</b>                | <b>-</b>          | <b>-</b>          | <b>53</b>         |
| <b>FUND BALANCES (DEFICIT), Beginning of year</b>                       | <b>(2,496)</b>  | <b>2,638</b>       | <b>1,514</b>                    | <b>-</b>                          | <b>866</b>                       | <b>9,086</b>            | <b>1,735</b>      | <b>106,981</b>    | <b>120,324</b>    |
| <b>FUND BALANCES, End of year</b>                                       | <b>\$ 1,915</b> | <b>\$ 3,234</b>    | <b>\$ 374</b>                   | <b>\$ -</b>                       | <b>\$ 919</b>                    | <b>\$ 9,639</b>         | <b>\$ -</b>       | <b>\$ 112,177</b> | <b>\$ 128,258</b> |

The accompanying notes, starting on page 21, are an integral part of these financial statements.



MICHIGAN TECHNOLOGICAL UNIVERSITY  
COMBINING STATEMENT OF FINANCIAL CONDITION  
JUNE 30, 1996  
(In thousands)

| ASSETS  | GENERAL<br>FUND | DESIGNATED<br>FUND | AUXILIARY<br>ACTIVITIES<br>FUND | RETIREMENT<br>& INSURANCE<br>FUND | EXPENDABLE<br>RESTRICTED<br>FUND | STUDENT<br>LOAN<br>FUND | ENDOWMENT<br>FUND | PLANT<br>FUND     | AGENCY<br>FUND | COMBINED<br>TOTAL |
|---|-----------------|--------------------|---------------------------------|-----------------------------------|----------------------------------|-------------------------|-------------------|-------------------|----------------|-------------------|
| <b>CURRENT ASSETS:</b>  |                 |                    |                                 |                                   |                                  |                         |                   |                   |                |                   |
| Cash and cash equivalents   | \$ 1,782        | \$ 1,519           | \$ -                            | \$ -                              | \$ -                             | \$ 814                  | \$ 3              | \$ 7,060          | \$ 109         | \$ 11,287         |
| Accounts receivable, net  | 409             | 206                | 540                             | 17                                | 5,779                            | -                       | -                 | -                 | 264            | 7,215             |
| Inventories   | 75              | -                  | 1,805                           | -                                 | -                                | -                       | -                 | -                 | -              | 1,880             |
| Deposits  | -               | -                  | -                               | 70                                | -                                | -                       | -                 | -                 | -              | 70                |
| Prepaid expenses  | 309             | 293                | 65                              | -                                 | -                                | -                       | -                 | 15                | -              | 682               |
| Due (to) from other funds   | 643             | 1,514              | (34)                            | (643)                             | (1,480)                          | -                       | -                 | -                 | -              | -                 |
|   | 3,218           | 3,532              | 2,376                           | (556)                             | 4,299                            | 814                     | 3                 | 7,075             | 373            | 21,134            |
| <b>STUDENT LOANS RECEIVABLE, net</b>                                  | -               | -                  | -                               | -                                 | -                                | 8,272                   | -                 | -                 | -              | 8,272             |
| <b>INVESTMENTS</b>  | -               | -                  | -                               | 11,454                            | -                                | -                       | 1,732             | -                 | -              | 13,186            |
| <b>PROPERTY, PLANT and EQUIPMENT, net</b>                             | -               | -                  | -                               | -                                 | -                                | -                       | -                 | 103,893           | -              | 103,893           |
| <b>Total assets</b>   | <u>\$ 3,218</u> | <u>\$ 3,532</u>    | <u>\$ 2,376</u>                 | <u>\$ 10,898</u>                  | <u>\$ 4,299</u>                  | <u>\$ 9,086</u>         | <u>\$ 1,735</u>   | <u>\$ 110,968</u> | <u>\$ 373</u>  | <u>\$ 146,485</u> |
| <b>LIABILITIES AND FUND BALANCE</b>                                   |                 |                    |                                 |                                   |                                  |                         |                   |                   |                |                   |
| <b>CURRENT LIABILITIES:</b>   |                 |                    |                                 |                                   |                                  |                         |                   |                   |                |                   |
| Current portion of notes, bonds and capital lease obligations payable | \$ -            | \$ -               | \$ -                            | \$ -                              | \$ -                             | \$ -                    | \$ -              | \$ 449            | \$ -           | \$ 449            |
| Accounts payable  | 599             | 80                 | 395                             | 357                               | 196                              | -                       | -                 | 464               | 36             | 2,127             |
| Accrued payroll and payroll taxes                                     | 2,545           | 94                 | 240                             | 181                               | 617                              | -                       | -                 | -                 | 26             | 3,703             |
| Unearned revenue  | 1,923           | 720                | 11                              | -                                 | 2,620                            | -                       | -                 | -                 | -              | 5,274             |
| Deposits  | 647             | -                  | 216                             | -                                 | -                                | -                       | -                 | -                 | 311            | 1,174             |
| Current portion of accrued health and liability claims                | -               | -                  | -                               | 2,278                             | -                                | -                       | -                 | -                 | -              | 2,278             |
| Accrued compensated absences  | -               | -                  | -                               | 2,131                             | -                                | -                       | -                 | -                 | -              | 2,131             |
|   | 5,714           | 894                | 862                             | 4,947                             | 3,433                            | -                       | -                 | 913               | 373            | 17,136            |
| <b>ACCRUED HEALTH AND LIABILITY CLAIMS</b>                            | -               | -                  | -                               | 5,951                             | -                                | -                       | -                 | -                 | -              | 5,951             |
| <b>NOTES, BONDS AND CAPITAL LEASE OBLIGATIONS PAYABLE</b>             | -               | -                  | -                               | -                                 | -                                | -                       | -                 | 3,074             | -              | 3,074             |
|   | 5,714           | 894                | 862                             | 10,898                            | 3,433                            | -                       | -                 | 3,987             | 373            | 26,161            |
| <b>FUND BALANCE:</b>  |                 |                    |                                 |                                   |                                  |                         |                   |                   |                |                   |
| Unrestricted  | 4,776           | 2,638              | 1,514                           | -                                 | -                                | 88                      | 1,735             | 5,730             | -              | 16,481            |
| Restricted  | -               | -                  | -                               | -                                 | 866                              | 8,998                   | -                 | 881               | -              | 10,745            |
| Investment in physical properties                                     | -               | -                  | -                               | -                                 | -                                | -                       | -                 | 100,370           | -              | 100,370           |
| Deficit to be funded in subsequent periods                            | (7,272)         | -                  | -                               | -                                 | -                                | -                       | -                 | -                 | -              | (7,272)           |
| <b>Total fund balance (deficit)</b>                                   | <u>(2,496)</u>  | <u>2,638</u>       | <u>1,514</u>                    | <u>-</u>                          | <u>866</u>                       | <u>9,086</u>            | <u>1,735</u>      | <u>106,981</u>    | <u>-</u>       | <u>120,324</u>    |
| <b>Total liabilities and fund balance</b>                             | <u>\$ 3,218</u> | <u>\$ 3,532</u>    | <u>\$ 2,376</u>                 | <u>\$ 10,898</u>                  | <u>\$ 4,299</u>                  | <u>\$ 9,086</u>         | <u>\$ 1,735</u>   | <u>\$ 110,968</u> | <u>\$ 373</u>  | <u>\$ 146,485</u> |

The accompanying notes, starting on page 21, are an integral part of these financial statements.

MICHIGAN TECHNOLOGICAL UNIVERSITY  
**COMBINING STATEMENT OF REVENUES, EXPENDITURES, TRANSFERS AND CHANGES IN FUND BALANCES**  
 FOR THE YEAR ENDED JUNE 30, 1996  
*(in thousands)*

|   | GENERAL<br>FUND   | DESIGNATED<br>FUND | AUXILIARY<br>ACTIVITIES<br>FUND | RETIREMENT<br>& INSURANCE<br>FUND | EXPENDABLE<br>RESTRICTED<br>FUND | STUDENT<br>LOAN<br>FUND | ENDOWMENT<br>FUND | PLANT<br>FUND     | COMBINED<br>TOTAL |
|---|-------------------|--------------------|---------------------------------|-----------------------------------|----------------------------------|-------------------------|-------------------|-------------------|-------------------|
| <b>REVENUES:</b>  |                   |                    |                                 |                                   |                                  |                         |                   |                   |                   |
| Tuition and fees  | \$ 29,651         | \$ 20              | \$ 286                          | \$ -                              | \$ -                             | \$ -                    | \$ -              | \$ -              | \$ 29,957         |
| State appropriations  | 41,939            | -                  | -                               | -                                 | 1,206                            | -                       | -                 | -                 | 43,145            |
| Federal grants and contracts  | 103               | -                  | -                               | -                                 | 12,156                           | 305                     | -                 | -                 | 12,564            |
| Joint capital outlay  | -                 | -                  | -                               | -                                 | -                                | -                       | -                 | 1,088             | 1,088             |
| Private gifts, grants and contracts                                     | 213               | 1,103              | 196                             | -                                 | 8,630                            | -                       | -                 | 1,074             | 11,216            |
| Indirect cost recoveries  | 4,966             | -                  | -                               | -                                 | -                                | -                       | -                 | -                 | 4,966             |
| Endowment income  | -                 | -                  | -                               | -                                 | -                                | -                       | 53                | -                 | 53                |
| Investment income   | (340)             | 158                | 261                             | 1,002                             | (91)                             | 228                     | -                 | 359               | 1,577             |
| Net realized gains on investments                                       | -                 | -                  | -                               | -                                 | -                                | -                       | 78                | -                 | 78                |
| Net unrealized gains on investments                                     | -                 | -                  | -                               | 830                               | -                                | -                       | 125               | -                 | 955               |
| Educational activities  | 2,855             | 1,982              | 374                             | -                                 | 206                              | -                       | -                 | -                 | 5,417             |
| Auxiliary activities  | -                 | -                  | 17,085                          | -                                 | -                                | -                       | -                 | -                 | 17,085            |
| Other   | -                 | -                  | 5                               | 8                                 | -                                | 4                       | -                 | 2                 | 19                |
| Decrease in restricted revenues<br>held for future expenditures         | -                 | -                  | -                               | -                                 | 360                              | -                       | -                 | -                 | 360               |
|   | <u>79,387</u>     | <u>3,263</u>       | <u>18,207</u>                   | <u>1,840</u>                      | <u>22,467</u>                    | <u>537</u>              | <u>256</u>        | <u>2,523</u>      | <u>128,480</u>    |
| <b>EXPENDITURES:</b>  |                   |                    |                                 |                                   |                                  |                         |                   |                   |                   |
| Educational and general-  |                   |                    |                                 |                                   |                                  |                         |                   |                   |                   |
| Instruction   | 39,031            | 1,774              | -                               | -                                 | 674                              | -                       | -                 | -                 | 41,479            |
| Research  | 1,798             | 1,152              | -                               | 5                                 | 20,939                           | -                       | -                 | -                 | 23,894            |
| Public service  | 172               | 534                | -                               | -                                 | 164                              | -                       | -                 | -                 | 870               |
| Academic support  | 7,343             | 37                 | -                               | -                                 | 32                               | -                       | -                 | -                 | 7,412             |
| Student services  | 3,795             | 14                 | -                               | -                                 | 178                              | -                       | -                 | -                 | 3,987             |
| Institutional support   | 9,474             | 266                | -                               | (2,796)                           | 14                               | -                       | -                 | -                 | 6,958             |
| Student financial support   | 8,531             | -                  | -                               | -                                 | 4,783                            | -                       | -                 | -                 | 13,314            |
| Operation and maintenance of plant                                      | 6,915             | 2                  | -                               | -                                 | -                                | -                       | -                 | -                 | 6,917             |
| Auxiliary activities  | -                 | -                  | 17,085                          | -                                 | -                                | -                       | -                 | -                 | 17,085            |
| Other   | -                 | -                  | -                               | -                                 | -                                | 43                      | 46                | 2,427             | 2,516             |
| Interest expense  | -                 | -                  | -                               | -                                 | -                                | -                       | -                 | 142               | 142               |
| Depreciation allowance  | -                 | -                  | -                               | -                                 | -                                | -                       | -                 | 8,606             | 8,606             |
| Capital additions, net of retirements                                   | -                 | -                  | -                               | -                                 | -                                | -                       | -                 | (4,123)           | (4,123)           |
|   | <u>77,059</u>     | <u>3,779</u>       | <u>17,085</u>                   | <u>(2,791)</u>                    | <u>26,784</u>                    | <u>43</u>               | <u>46</u>         | <u>7,052</u>      | <u>129,057</u>    |
| <b>MANDATORY TRANSFERS:</b>   |                   |                    |                                 |                                   |                                  |                         |                   |                   |                   |
| Research  | 1,764             | 79                 | -                               | 16                                | (1,859)                          | -                       | -                 | -                 | -                 |
| Institutional support   | 17                | -                  | -                               | -                                 | (17)                             | -                       | -                 | -                 | -                 |
| Student financial support   | 874               | -                  | -                               | -                                 | (741)                            | (133)                   | -                 | -                 | -                 |
| Debt service  | -                 | -                  | 286                             | -                                 | -                                | -                       | -                 | (286)             | -                 |
| Other   | 49                | -                  | -                               | (18)                              | (31)                             | -                       | -                 | -                 | -                 |
| <b>OTHER TRANSFERS:</b>   |                   |                    |                                 |                                   |                                  |                         |                   |                   |                   |
| Research  | 1,545             | (1,276)            | -                               | -                                 | (269)                            | -                       | -                 | -                 | -                 |
| Student financial support   | 773               | -                  | -                               | -                                 | (773)                            | -                       | -                 | -                 | -                 |
| Plant improvement   | 844               | 6                  | 3,147                           | -                                 | 12                               | -                       | -                 | (4,009)           | -                 |
| Other   | (4,473)           | (190)              | 559                             | 4,633                             | (639)                            | -                       | -                 | 98                | -                 |
|   | <u>78,452</u>     | <u>2,398</u>       | <u>21,077</u>                   | <u>1,840</u>                      | <u>22,467</u>                    | <u>(78)</u>             | <u>46</u>         | <u>2,855</u>      | <u>129,057</u>    |
| <b>REVENUES OVER (UNDER) EXPENDITURES<br/>AND TRANSFERS</b>             | <u>935</u>        | <u>865</u>         | <u>(2,870)</u>                  | <u>-</u>                          | <u>-</u>                         | <u>615</u>              | <u>210</u>        | <u>(332)</u>      | <u>(577)</u>      |
| <b>DECREASE IN RESTRICTED REVENUES<br/>HELD FOR FUTURE EXPENDITURES</b> | <u>-</u>          | <u>-</u>           | <u>-</u>                        | <u>-</u>                          | <u>(360)</u>                     | <u>-</u>                | <u>-</u>          | <u>-</u>          | <u>(360)</u>      |
| <b>FUND BALANCES (DEFICIT), Beginning of year</b>                       | <u>(3,431)</u>    | <u>1,773</u>       | <u>4,384</u>                    | <u>-</u>                          | <u>1,226</u>                     | <u>8,471</u>            | <u>1,525</u>      | <u>107,313</u>    | <u>121,261</u>    |
| <b>FUND BALANCES (DEFICIT), End of year</b>                             | <u>\$ (2,496)</u> | <u>\$ 2,638</u>    | <u>\$ 1,514</u>                 | <u>\$ -</u>                       | <u>\$ 866</u>                    | <u>\$ 9,086</u>         | <u>\$ 1,735</u>   | <u>\$ 106,981</u> | <u>\$ 120,324</u> |

The accompanying notes, starting on page 21, are an integral part of these financial statements.



MICHIGAN TECHNOLOGICAL UNIVERSITY  
**STATEMENTS OF CASH FLOWS**  
 FOR THE YEARS ENDED JUNE 30, 1997 AND 1996  
*(in thousands)*

|  | JUNE 30, 1997   | June 30, 1996    |
|--|-----------------|------------------|
| <b>Cash flow from operating activities</b>                     |                 |                  |
| <b>Cash provided by operating activities</b>                   |                 |                  |
| <i>Current fund activities-</i>                                |                 |                  |
| Student tuition and fees                                       | \$ 32,965       | \$ 32,812        |
| State appropriation  | 45,822          | 43,145           |
| Auxiliary activities   | 17,362          | 17,085           |
| Other sources  | 35,209          | 32,151           |
| <i>Non current fund activities</i>                             | 4,481           | 5,759            |
|  | <u>135,839</u>  | <u>130,952</u>   |
| <b>Cash used in operating activities</b>                       |                 |                  |
| <i>Current fund activities-</i>                                |                 |                  |
| Cash paid to suppliers and employees                           | 112,536         | 110,349          |
| Cash paid for financial aid                                    | 13,506          | 13,314           |
| <i>Non current fund activities-</i>                            |                 |                  |
| Cash paid to suppliers   | 4,725           | 2,390            |
| New student loans, net of repayments                           | 291             | 511              |
|  | <u>131,058</u>  | <u>126,564</u>   |
| Net cash flow provided by (used in) operating activities       | 4,781           | 4,388            |
| <b>Cash flow from capital financing activities</b>             |                 |                  |
| Joint capital outlay   | 6,733           | 1,088            |
| Proceeds from new capital lease                                | 600             | 491              |
| Payments on notes, bonds and capital lease obligations payable | (449)           | (322)            |
| Interest paid  | (180)           | (142)            |
| Proceeds from property sales                                   | 42              | 21               |
| Equipment additions, net                                       | (7,654)         | (4,693)          |
| Library books  | (101)           | (91)             |
| Land and land improvements                                     | (1,208)         | (38)             |
| Additions to buildings   | (813)           | (1,058)          |
| Construction in progress                                       | (6,168)         | (1,565)          |
| Net cash used in capital and related financing activities      | (9,198)         | (6,309)          |
| <b>Cash flow from investing activities</b>                     |                 |                  |
| (Purchase) sale of investments, net                            | 2,834           | (906)            |
| Net cash flow provided by (used in) investing activities       | 2,834           | (906)            |
| <b>(Decrease) in cash and cash equivalents</b>                 | (1,583)         | (2,827)          |
| <b>Cash and cash equivalents at beginning of year</b>          | 11,287          | 14,114           |
| <b>Cash and cash equivalents at end of year</b>                | <u>\$ 9,704</u> | <u>\$ 11,287</u> |

MICHIGAN TECHNOLOGICAL UNIVERSITY  
**STATEMENTS OF CASH FLOWS**  
 FOR THE YEARS ENDED JUNE 30, 1997 AND 1996  
*(in thousands)*

|  | <u>June 30, 1997</u> | <u>June 30, 1996</u> |
|--|----------------------|----------------------|
| <b>Reconciliation of change in net assets to<br/>net cash provided by operating activities:</b>        |                      |                      |
| <i>Change in net assets</i>  | \$ 7,934             | \$ (937)             |
| <i>Adjustments to reconcile change in net assets<br/>to net cash provided by operating activities:</i> |                      |                      |
| Depreciation   | 9,109                | 8,606                |
| Joint Capital Outlay   | (6,733)              | (1,088)              |
| Net unrealized gains on investments  | (1,247)              | (830)                |
| Gifted property and equipment  | (234)                | (899)                |
| Proceeds from surplus property sales   | (42)                 | (21)                 |
| Loss on disposition of property  | 187                  | 231                  |
| Interest expense   | 180                  | 142                  |
| (Increase) in accounts receivable  | (264)                | (602)                |
| Decrease in inventories  | 64                   | 29                   |
| Decrease in prepaid expenses   | 76                   | 11                   |
| Increase in student loans receivable, net  | (291)                | (511)                |
| Increase in accounts payable   | 287                  | 145                  |
| Increase (decrease) in deposits  | 72                   | 51                   |
| Increase (decrease) in accrued payroll and payroll taxes   | 236                  | (80)                 |
| Increase in unearned revenue   | 149                  | 1,145                |
| Increase in accrued compensated absences   | 93                   | 53                   |
| (Decrease) in accrued health and liability claims  | (4,795)              | (1,057)              |
| <b>Net cash provided by operating activities</b>   | <u>\$ 4,781</u>      | <u>\$ 4,388</u>      |



**MICHIGAN TECHNOLOGICAL UNIVERSITY**

**OMB CURCULAR A-133 SUPPLEMENTARY FINANCIAL REPORTS**

**FOR THE YEAR ENDED JUNE 30, 1997**

**TOGETHER WITH INDEPENDENT AUDITORS' REPORTS**



MICHIGAN TECHNOLOGICAL UNIVERSITY

OMB CIRCULAR A-133 SUPPLEMENTARY FINANCIAL REPORT

FOR THE YEAR ENDED JUNE 30, 1997

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# ARTHUR ANDERSEN LLP

## INDEPENDENT AUDITORS' REPORT ON COMPLIANCE AND ON INTERNAL CONTROLS OVER FINANCIAL REPORTING

To the Board of Control,  
Michigan Technological University:

We have audited the financial statements of MICHIGAN TECHNOLOGICAL UNIVERSITY (the "University") as of and for the year ended June 30, 1997, and have issued our report thereon dated September 12, 1997. We conducted our audit in accordance with generally accepted auditing standards and the standards applicable to financial audits contained in Government Auditing Standards, issued by the Comptroller General of the United States.

### Compliance

As part of obtaining reasonable assurance about whether the University's financial statements are free of material misstatement, we performed tests of its compliance with certain provisions of laws, regulations, contracts, and grants, noncompliance with which could have a direct and material effect on the determination of financial statement amounts. However, providing an opinion on compliance with those provisions was not an objective of our audit, and accordingly, we do not express such an opinion. The results of our tests disclosed no instances of noncompliance that are required to be reported under Government Auditing Standards. However, we noted certain immaterial instances of noncompliance that we have reported to management of the University in a separate letter dated September 12, 1997.

### Internal Control Over Financial Reporting

In planning and performing our audit, we considered the University's internal control over financial reporting in order to determine our auditing procedures for the purpose of expressing our opinion on the financial statements and not to provide assurance on the internal control over financial reporting. Our consideration of the internal control over financial reporting would not necessarily disclose all matters in the internal control over financial reporting that might be material weaknesses. A material weakness is a condition in which the design or operation of one or more of the internal control components does not reduce to a relatively low level the risk that misstatements in amounts that would be material in relation to the financial statements being audited may occur and not be detected within a timely period by employees in the normal course of performing their assigned functions. We noted no matters involving the internal control over financial reporting and its operation that we consider to be material weaknesses.

This report is intended for the information of the Board of Control, University management, the Department of Health and Human Services (the cognizant agency) and Federal grantor agencies. However, this report is a matter of public record and its distribution is not limited.

*Arthur Andersen LLP*

Detroit, Michigan,  
September 12, 1997.

# ARTHUR ANDERSEN LLP

## INDEPENDENT AUDITORS' REPORT ON COMPLIANCE WITH REQUIREMENTS APPLICABLE TO EACH MAJOR PROGRAM AND ON INTERNAL CONTROL OVER COMPLIANCE IN ACCORDANCE WITH OMB CIRCULAR A-133

To the Board of Control,  
Michigan Technological University:

### Compliance

We have audited the compliance of MICHIGAN TECHNOLOGICAL UNIVERSITY (the "University") with the types of compliance requirements described in the U.S. Office of Management and Budget (OMB) Circular A-133 Compliance Supplement that are applicable to each of its major federal programs for the year ended June 30, 1997. The University's major federal programs are identified in the accompanying Schedule of Expenditures of Federal Awards. Compliance with the requirements of laws, regulations, contracts, and grants applicable to each of its major federal programs is the responsibility of the University's management. Our responsibility is to express an opinion on the University's compliance based on our audit.

We conducted our audit of compliance in accordance with generally accepted auditing standards; the standards applicable to financial audits contained in Government Auditing Standards, issued by the Comptroller General of the United States; and OMB Circular A-133, Audits of States, Local Governments, and Non-Profit Organizations. Those standards and OMB Circular A-133 require that we plan and perform the audit to obtain reasonable assurance about whether noncompliance with the types of compliance requirements referred to above that could have a direct and material effect on a major federal program occurred. An audit includes examining, on a test basis, evidence about the University's compliance with those requirements and performing such other procedures as we considered necessary in the circumstances. We believe that our audit provides a reasonable basis for our opinion. Our audit does not provide a legal determination of the University's compliance with those requirements.

In our opinion, Michigan Technological University complied, in all material respects, with the requirements referred to above that are applicable to each of its major federal programs for the year ended June 30, 1997.

### Internal Control Over Compliance

The management of the University is responsible for establishing and maintaining effective internal control over compliance with requirements of laws, regulations, contracts, and grants applicable to federal programs. In planning and performing our audit, we considered the University's internal control over compliance with requirements that could have a direct and material effect on a major federal program in order to determine our auditing procedures for the purpose of expressing our opinion on compliance and to test and report on internal control over compliance in accordance with OMB Circular A-133.

Our consideration of the internal control over compliance would not necessarily disclose all matters in the internal control that might be material weaknesses. A material weakness is a condition in which the design or operation of one or more of the internal control components does not reduce to a relatively low level the risk that noncompliance with applicable requirements of laws, regulations, contracts, and grants that would be material in relation to a major federal program being audited may occur and not be detected within a timely period by employees in the normal course of performing their assigned functions. We noted no matters involving the internal control over compliance and its operation that we consider to be material weaknesses.

This report is intended for the information of the Board of Control, University management, the Department of Health and Human Services (the cognizant agency) and Federal grantor agency. However, this report is a matter of public record and its distributions not limited.

Detroit, Michigan,  
September 12, 1997.

*Arthur Andersen LLP*

08/07/97  
FTQOPL18A  
Fund L3

MICHIGAN TECHNOLOGICAL UNIVERSITY  
Research - Summary Expense by CFDA#  
From 07/01/96 to 06/30/97

| CFDA#            | Index  | Fund   | Orgn  | Proposal# | Contract #                             | Fund Title  | Amount    |
|------------------|--------|--------|-------|-----------|--|---|-----------|
| McIntyre Stennis |        |        |       |           |  |   |           |
| 10.202           | E20052 | R50768 | 23005 | 941009    | McINTIRE STENNIS<br>Financial Manager: | MS-McIntire Stennis Research Admin.<br>E Prayer     | 485.82    |
| 10.202           | E20057 | R50846 | 23005 | 941009A   | McINTIRE STENNIS<br>Financial Manager: | MS-McIntire Stennis Research Admin.<br>E Prayer     | 78,943.82 |
| 10.202           | E20058 | R50847 | 23005 | 941009A   | McINTIRE STENNIS<br>Financial Manager: | MS-Develop Male Sterile Aspen Clone<br>D F Karnosky | 2,099.95  |
| 10.202           | E20059 | R50848 | 23805 | 941009A   | McINTIRE STENNIS<br>Financial Manager: | MS-FY96-Xylem Tissue-Specific Mod.<br>V L Chiang    | 5,565.64  |
| 10.202           | E20061 | R50850 | 23005 | 941009A   | McINTIRE STENNIS<br>Financial Manager: | MS-FY96-Process Model Tree Growth<br>P V Desanker   | 3,239.12  |
| 10.202           | E20062 | R50851 | 23005 | 941009A   | McINTIRE STENNIS<br>Financial Manager: | MS-FY96-Forested Soil Catena/Baraga<br>S G Shetron  | 4,987.61  |
| 10.202           | E20063 | R50894 | 23005 | 941009A   | McINTIRE STENNIS<br>Financial Manager: | MS-Forest Fragmentation, Demography<br>T A Waite    | 3,636.78  |
| 10.202           | E20064 | R50920 | 23005 | 941009B   | McINTIRE STENNIS<br>Financial Manager: | MS-FY97-McIntire-Stennis Rsch Admin<br>E Prayer     | 25,589.54 |
| 10.202           | E20065 | R50921 | 23005 | 941009B   | McINTIRE STENNIS<br>Financial Manager: | MS-97-Dvlp Male Sterile Aspen Clone<br>D F Karnosky | 15,594.85 |
| 10.202           | E20066 | R50922 | 23805 | 941009B   | McINTIRE STENNIS<br>Financial Manager: | MS-FY97-Xylem Tissue-Specific Mod.<br>V L Chiang    | 12,259.50 |
| 10.202           | E20067 | R50923 | 23805 | 941009B   | McINTIRE STENNIS<br>Financial Manager: | MS-FY97-Chem. Recycled Paper Fibers<br>D J Gardner  | 9,774.77  |
| 10.202           | E20068 | R50924 | 23005 | 941009B   | McINTIRE STENNIS<br>Financial Manager: | MS-FY97-Process Model Tree Growth<br>P V Desanker   | 11,359.94 |
| 10.202           | E20069 | R50925 | 23005 | 941009B   | McINTIRE STENNIS<br>Financial Manager: | MS-FY97-Forested Soil Catena/Baraga<br>S G Shetron  | 7,608.00  |
| 10.202           | E20070 | R50926 | 23005 | 941009B   | McINTIRE STENNIS<br>Financial Manager: | MS-FY97-Forest Fragmentation/Demogr<br>T A Waite    | 10,599.04 |
| 10.202           | E20071 | R50953 | 23805 | 941009B   | McINTIRE STENNIS<br>Financial Manager: | MS-FY97-Nondestructive Eval Mehtods<br>Z Wang       | 14.96     |

The accompanying notes are an integral part of these financial statements.



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MICHIGAN TECHNOLOGICAL UNIVERSITY  
Research - Summary Expense by CFDA#  
From 07/01/96 to 06/30/97

| CFDA#               | Index  | Fund   | Orgn  | Proposal# | Contract #         | Fund Title                          | Amount     |
|---------------------|--------|--------|-------|-----------|--------------------|-------------------------------------|------------|
| 10.202              | E34015 | S90169 | 23005 | 941009A   | McINTYRE STENNIS   | MTU-Hilary (Alexis) Londo Fellow    |            |
| McIntyre Stennis    |        |        |       |           | Financial Manager: | P V Desanker                        | 14,641.63  |
|                     |        |        |       |           |                    |                                     | 206,400.97 |
|                     |        |        |       |           |                    | TOTAL FOR CFDA# 10.202              | 206,400.97 |
| U S Forest Service: |        |        |       |           |                    |                                     |            |
| 10.206              | E20269 | R50834 | 24105 | 941143    | 95-37107-1665      | USDA-Symbiosis Genes/Ectomycorrhiza |            |
| U S Forest Service: |        |        |       |           | Financial Manager: | G K Podila                          | 29,188.19  |
| 10.206              | E20274 | R50838 | 24105 | 950255    | 95-37103-2109      | USDA-Biochemical Structure/Function |            |
| U S Forest Service: |        |        |       |           | Financial Manager: | W H Campbell                        | 68,978.13  |
| 10.206              | E20281 | R50862 | 23805 | 950215    | 95-37103-2061      | USDA-Mod Lignin Biosynthesis Conifr |            |
| U S Forest Service: |        |        |       |           | Financial Manager: | V L Chiang                          | 28,267.63  |
| 10.206              | E20282 | R50863 | 23005 | 950215    | 95-37103-2061      | USDA-Mod Lignin Biosynthesis Conifr |            |
| U S Forest Service: |        |        |       |           | Financial Manager: | D F Karnosky                        | 38,724.66  |
| 10.206              | E20283 | R50864 | 24105 | 950215    | 95-37103-2061      | USDA-Mod Lignin Biosynthesis Conifr |            |
| U S Forest Service: |        |        |       |           | Financial Manager: | G K Podila                          | 12,335.28  |
| 10.206              | E20298 | R50928 | 23805 | 960212    | 96-35500-3567      | USAGR-Wood Preserv Pressure Trtmnts |            |
| U S Forest Service: |        |        |       |           | Financial Manager: | P E Lake                            | 35,678.24  |
|                     |        |        |       |           |                    |                                     | 213,172.13 |
|                     |        |        |       |           |                    | TOTAL FOR CFDA# 10.206              | 213,172.13 |
| U S Forest Service: |        |        |       |           |                    |                                     |            |
| 10.652              | E20236 | R10555 | 23005 | 910608A   | AGRMT#23-625-AMD04 | USDA-Ozone Effects Genotypes Aspen/ |            |
| U S Forest Service: |        |        |       |           | Financial Manager: | D F Karnosky                        | 266.53     |
| 10.652              | E20249 | R10623 | 28505 | 940302    | 23-94-12 - AMD 1   | USDA-Micromatic Vegetation and Deco |            |
| U S Forest Service: |        |        |       |           | Financial Manager: | J Chen                              | 12,634.73  |
| 10.652              | E20256 | R10634 | 23005 | 940404    | PNW 94-0541        | USFS-Canopy Structure/Microclimate  |            |
| U S Forest Service: |        |        |       |           | Financial Manager: | J Chen                              | 7,390.66   |
| 10.652              | E20258 | R10636 | 23005 | 910608A   | AGRMT#23-625-AMD04 | USDA-Ozone Effects Genotypes Aspen  |            |
| U S Forest Service: |        |        |       |           | Financial Manager: | D F Karnosky                        | 0.00       |

The accompanying notes are an integral part of these financial statements.

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Fund L3

MICHIGAN TECHNOLOGICAL UNIVERSITY  
Research - Summary Expense by CFDA#  
From 07/01/96 to 06/30/97

| CFDA#               | Index  | Fund   | Orgn  | Proposal# | Contract #           | Fund Title                          | Amount     |
|---------------------|--------|--------|-------|-----------|----------------------|-------------------------------------|------------|
| 10.652              | E20259 | R10643 | 28505 | 940510    | Co-Op Ag 23-918-AMD4 | USDA/FS-Pollution-Ecosystem-Forest  |            |
| U S Forest Service: |        |        |       |           | Financial Manager:   | K S Pregitzer                       | 32,233.52  |
| 10.652              | E20262 | R50764 | 23005 | 920914A   | PSW-92-0034CA-AMD05  | USDA-Nitrogen Fixation Forest Ecosy |            |
| U S Forest Service: |        |        |       |           | Financial Manager:   | M F Jurgensen                       | 4,265.97   |
| 10.652              | E20268 | R10677 | 24105 | 941039    | 23-081-AMD No.2      | USAGR-Biocontrol of Insect Pests    |            |
| U S Forest Service: |        |        |       |           | Financial Manager:   | G K Podila                          | 28,024.54  |
| 10.652              | E20273 | R10682 | 23005 | 950715    | 29-1315              | USDA-Mycorrhizae Relationships      |            |
| U S Forest Service: |        |        |       |           | Financial Manager:   | M F Jurgensen                       | 3,239.22   |
| 10.652              | E20285 | R50880 | 23007 | 960209    | Co-Op Ag 23-136-AMD1 | USDA-Carbon/Nitrogen Cycling Aspen  |            |
| U S Forest Service: |        |        |       |           | Financial Manager:   | K S Pregitzer                       | 39,182.26  |
| 10.652              | E20288 | R10711 | 28505 | 940510    | Co-Op Ag 23-918-AMD4 | USDA-Climatic/Pollution Ecosystem   |            |
| U S Forest Service: |        |        |       |           | Financial Manager:   | K S Pregitzer                       | 4,437.46   |
| 10.652              | E20296 | R50918 | 23005 | 960818    | SRS 29-CA-96-093     | USAGR-Organic Matter Distribution   |            |
| U S Forest Service: |        |        |       |           | Financial Manager:   | M F Jurgensen                       | 8,127.36   |
| 10.652              | E20297 | R50927 | 23005 | 960601    | PNW 96-5023-1-CA     | USAGR-Monitoring Forest Microclimat |            |
| U S Forest Service: |        |        |       |           | Financial Manager:   | J Chen                              | 10,004.08  |
| 10.652              | E20305 | R50984 | 23805 | 970504    | 97-CA-2910           | USDA-NDE Determine Wood Characteris |            |
| U S Forest Service: |        |        |       |           | Financial Manager:   | C Tsai                              | 80.88      |
| 10.652              | E33982 | S90066 | 28505 | 940302    | 23-94-12 - AMD 1     | USDA/MTU - Sari Saunders Fellowship |            |
| U S Forest Service: |        |        |       |           | Financial Manager:   | J Chen                              | 11,260.30  |
| 10.652              | E33985 | S90070 | 23005 | 940404    | PNW 94-0541          | USFS/MTU - Bo Song Fellowship       |            |
| U S Forest Service: |        |        |       |           | Financial Manager:   | J Chen                              | 13,683.45  |
|                     |        |        |       |           |                      |                                     | -----      |
|                     |        |        |       |           |                      |                                     | 174,830.96 |
|                     |        |        |       |           |                      |                                     | -----      |
|                     |        |        |       |           |                      | TOTAL FOR CFDA# 10.652              | 174,830.96 |
| U S Forest Service: |        |        |       |           |                      |                                     |            |
| 10.664              | E20271 | R10680 | 23005 | 950707    | 42-95-0016-A5        | USDA- Cylindrocladium Root Disease  |            |
| U S Forest Service: |        |        |       |           | Financial Manager:   | M R Gale                            | 41,733.64  |
| 10.664              | E20299 | R50936 | 23805 | 961050    | NA-96-0374           | USAGR-Lake States/Horner            |            |
| U S Forest Service: |        |        |       |           | Financial Manager:   | G D McGinnis                        | 54.55      |

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| CFDA#                               | Index  | Fund   | Orgn  | Proposal# | Contract #           | Fund Title                          | Amount    |
|-------------------------------------|--------|--------|-------|-----------|----------------------|-------------------------------------|-----------|
| 10.664                              | E20300 | R50937 | 23805 | 961050    | NA-96-0374           | USAGR-Lake States/L.P.              |           |
| U S Forest Service:                 |        |        |       |           | Financial Manager:   | G D McGinnis                        | 6,371.36  |
| 10.664                              | E20301 | R50938 | 23805 | 961050    | NA-96-0374           | USAGR-Lake States/Administrative    |           |
| U S Forest Service:                 |        |        |       |           | Financial Manager:   | G D McGinnis                        | 174.86    |
| 10.664                              | E20302 | R50939 | 23805 | 961050    | NA-96-0374           | USAGR-Lake States/Strandwood        |           |
| U S Forest Service:                 |        |        |       |           | Financial Manager:   | G D McGinnis                        | 8,794.26  |
|                                     |        |        |       |           |                      |                                     | 57,128.67 |
|                                     |        |        |       |           |                      | TOTAL FOR CFDA# 10.664              | 57,128.67 |
| U S Dept of Commerce Fed Pass Thru: |        |        |       |           |                      |                                     |           |
| 11.417                              | E28571 | R80570 | 24107 | 940906    | F95115               | Univ Mich-Great Lakes Salmon Fisher |           |
| U S Dept of Commerce Fed Pass Thru: |        |        |       |           | Financial Manager:   | S H Bowen                           | 15,865.82 |
| 11.417                              | E28572 | R80571 | 23007 | 940906    | F95115               | Univ Mich-Great Lakes Salmon Fisher |           |
| U S Dept of Commerce Fed Pass Thru: |        |        |       |           | Financial Manager:   | A L Maclean                         | 7,461.71  |
| 11.417                              | E28575 | R80599 | 24105 | 940906P2  | A14779               | UNIVE-Management Strategies Great L |           |
| U S Dept of Commerce Fed Pass Thru: |        |        |       |           | Financial Manager:   | S H Bowen                           | 19,600.70 |
| 11.417                              | E28576 | R80600 | 23005 | 940906P2  | A14779               | UNIVE-Management Strategies Great L |           |
| U S Dept of Commerce Fed Pass Thru: |        |        |       |           | Financial Manager:   | A L Maclean                         | 18,921.25 |
| 11.417                              | E28577 | R80601 | 24305 | 940906P2  | A14779               | UNIVE-Management Strategies Great L |           |
| U S Dept of Commerce Fed Pass Thru: |        |        |       |           | Financial Manager:   | T D Drummer                         | 3,838.69  |
| 11.417                              | E28622 | R40547 | 28505 | 930304    | F95115               | MICHI-Remote Sensing of Zebra Musse |           |
| U S Dept of Commerce Fed Pass Thru: |        |        |       |           | Financial Manager:   | W C Kerfoot                         | 8,775.97- |
| 11.417                              | E28625 | R40545 | 23005 | 920812    | PO# F95115 - MOD #02 | MICHI-Climate Effects Hearing Recru |           |
| U S Dept of Commerce Fed Pass Thru: |        |        |       |           | Financial Manager:   | A L Maclean                         | 3,208.28  |
| 11.417                              | E28629 | R40565 | 28505 | 930304    | F95115               | MICHI-Remote Sensing of Zebra Musse |           |
| U S Dept of Commerce Fed Pass Thru: |        |        |       |           | Financial Manager:   | A L Maclean                         | 7,055.14  |
|                                     |        |        |       |           |                      |                                     | 67,175.62 |
|                                     |        |        |       |           |                      | TOTAL FOR CFDA# 11.417              | 67,175.62 |

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|-------------------------------|--------|--------|-------|-----------|----------------------|-------------------------------------|-----------------|------------|
| U S Dept of Commerce:         |        |        |       |           |                      |                                     |                 |            |
| 11.431                        | E24828 | R50707 | 22405 | 930725    | NA46GP0122-AMD2      | USCOM-Arctic Pollution on Spring Oz |                 |            |
| U S Dept of Commerce:         |        |        |       |           |                      | Financial Manager:                  | R E Honrath     | 17,611.50  |
| 11.431                        | E24832 | R50911 | 22405 | 950803    | NA66GP0375           | USCOM-Nitrogen Oxide North Atlantic |                 |            |
| U S Dept of Commerce:         |        |        |       |           |                      | Financial Manager:                  | R E Honrath     | 40,968.76  |
|                               |        |        |       |           |                      |                                     | -----           |            |
|                               |        |        |       |           |                      |                                     | 58,580.26       |            |
|                               |        |        |       |           |                      |                                     | -----           |            |
| TOTAL FOR CFDA# 11.431        |        |        |       |           |                      |                                     | 58,580.26       |            |
|                               |        |        |       |           |                      |                                     |                 |            |
| U S Office of Naval Research: |        |        |       |           |                      |                                     |                 |            |
| 12.300                        | E21092 | R50520 | 22505 | 881015A   | N00014-91-J-1953/P09 | ONR-Basic Theory of Crystal Decompo |                 |            |
| U S Office of Naval Research: |        |        |       |           |                      | Financial Manager:                  | A B Kunz        | 142,241.48 |
| 12.300                        | E21096 | R10642 | 24105 | 931143    | N00014-94-1-0766/A01 | USNAV-Mechanism Diatom Fouling Phen |                 |            |
| U S Office of Naval Research: |        |        |       |           |                      | Financial Manager:                  | M R Gretz       | 35,311.67  |
| 12.300                        | E21123 | R50705 | 24105 | 930615    | N00014-94-1-0273-M06 | ONR-Diatom Extracellular Adhesives  |                 |            |
| U S Office of Naval Research: |        |        |       |           |                      | Financial Manager:                  | M R Gretz       | 91,609.20  |
| 12.300                        | E21136 | R50801 | 24105 | 930615    | N00014-94-1-0273-M06 | ONR-Diatom Extracellular Adhesives  |                 |            |
| U S Office of Naval Research: |        |        |       |           |                      | Financial Manager:                  | M R Gretz       | 4.10       |
| 12.300                        | E21140 | R50832 | 22505 | 950523    | N00014-95-1-1216     | ONR-Structure Initiation & Aging    |                 |            |
| U S Office of Naval Research: |        |        |       |           |                      | Financial Manager:                  | A B Kunz        | 57,373.96  |
| 12.300                        | E21145 | R50882 | 22705 | 950919    | N00014-96-1-0793/P02 | OFFIC-Epitaxial Stabilization Novel |                 |            |
| U S Office of Naval Research: |        |        |       |           |                      | Financial Manager:                  | M Krishnamurthy | 104,658.56 |
| 12.300                        | E21151 | R50970 | 22505 | 960901    | N00014-97-1-0445     | ONR-Instrumentation-Computer Model  |                 |            |
| U S Office of Naval Research: |        |        |       |           |                      | Financial Manager:                  | A B Kunz        | 450,000.01 |
|                               |        |        |       |           |                      |                                     | -----           |            |
|                               |        |        |       |           |                      |                                     | 881,198.98      |            |
|                               |        |        |       |           |                      |                                     | -----           |            |
| TOTAL FOR CFDA# 12.300        |        |        |       |           |                      |                                     | 881,198.98      |            |
|                               |        |        |       |           |                      |                                     |                 |            |
| U S Army Research Office:     |        |        |       |           |                      |                                     |                 |            |
| 12.431                        | E20586 | R50756 | 22705 | 940343    | DAAH04-94-G-0315-P06 | USARM-Mechanical Alloy Processing   |                 |            |
| U S Army Research Office:     |        |        |       |           |                      | Financial Manager:                  | T H Courtney    | 41,774.64  |

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|---------------------------|--------|--------|-------|-----------|----------------------|-------------------------------------|------------|
| 12.431                    | E20597 | R50901 | 22705 | 960101    | DAAH04-96-1-0358     | USARM-Instrumentation-DURIP Program |            |
| U S Army Research Office: |        |        |       |           | Financial Manager:   | M Krishnamurthy                     | 101,598.80 |
| 12.431                    | E20600 | R50952 | 22305 | 960917    | DAAG55-97-1-0084     | USARM - Atomic Force Microscope     |            |
| U S Army Research Office: |        |        |       |           | Financial Manager:   | J G Williams                        | 1,183.00   |
| 12.431                    | E21121 | R50689 | 22705 | 930826    | DAAH04-93-G-0011/P02 | ARO-Alloying to Structural Material |            |
| U S Army Research Office: |        |        |       |           | Financial Manager:   | T H Courtney                        | 33,224.98  |
| 12.431                    | E21137 | R50819 | 24605 | 950114    | DAAH04-95-1-0375/P01 | USARM-Defect Mediated Spin-Dependnt |            |
| U S Army Research Office: |        |        |       |           | Financial Manager:   | D J Keeble                          | 5,790.23   |
|                           |        |        |       |           |                      |                                     | -----      |
|                           |        |        |       |           |                      |                                     | 183,571.65 |
|                           |        |        |       |           |                      |                                     | -----      |
|                           |        |        |       |           |                      | TOTAL FOR CFDA# 12.431              | 183,571.65 |
| U S Air Force             |        |        |       |           |                      |                                     |            |
| 12.800                    | E21125 | R50717 | 22605 | 931037    | F49620-94-1-0255-P01 | USAIR-Studies Nanostructural Mat'ls |            |
| U S Air Force             |        |        |       |           | Financial Manager:   | E C Aifantis                        | 26,180.44  |
| 12.800                    | E21131 | R50795 | 22605 | 940907    | F49620-95-1-0208-P02 | USAIR-Spatio-Temporal Instabilities |            |
| U S Air Force             |        |        |       |           | Financial Manager:   | E C Aifantis                        | 99,826.89  |
| 12.800                    | E21132 | R50796 | 22705 | 940907    | F49620-95-1-0208-P02 | USAIR-Spatio-Temporal Instabilities |            |
| U S Air Force             |        |        |       |           | Financial Manager:   | W W Milligan                        | 28,041.87  |
| 12.800                    | E21146 | R50896 | 24605 | 950615    | F49620-96-1-0319-P02 | USAIR-Atomistic-Ad Initio Calculati |            |
| U S Air Force             |        |        |       |           | Financial Manager:   | R Pandey                            | 10,232.69  |
| 12.800                    | E21147 | R50897 | 22705 | 960232    | F49620-96-1-0313-P02 | USAIR-Ge Quantum-Dots on Silicon    |            |
| U S Air Force             |        |        |       |           | Financial Manager:   | M Krishnamurthy                     | 47,289.01  |
| 12.800                    | E21148 | R50909 | 24605 | 950705    | F49620-96-1-0445     | USAIR-Dopants in Ceramic Oxides     |            |
| U S Air Force             |        |        |       |           | Financial Manager:   | R Pandey                            | 36,346.83  |
| 12.800                    | E21149 | R50941 | 22505 | 960813    | F49620-97-1-0053     | USAIR-Unconventional Imaging        |            |
| U S Air Force             |        |        |       |           | Financial Manager:   | T J Schulz                          | 12,350.78  |
| 12.800                    | E33876 | S90106 | 22605 | 940907    | F49620-95-1-0208     | MTU/USAIR - Xinhai Zhu Fellowship   |            |
| U S Air Force             |        |        |       |           | Financial Manager:   | E C Aifantis                        | 14,019.63  |
|                           |        |        |       |           |                      |                                     | -----      |
|                           |        |        |       |           |                      |                                     | 274,288.14 |
|                           |        |        |       |           |                      |                                     | -----      |
|                           |        |        |       |           |                      | TOTAL FOR CFDA# 12.800              | 274,288.14 |

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|---------------------------------|--------|--------|-------|-----------|----------------------|-------------------------------------|--------------|
| National Security Agency:       |        |        |       |           |                      |                                     |              |
| 12.901                          | E21069 | R50975 | 24305 | 951009    | MDA904-97-1-0072     | NATIO-Combinatorial Configurations  |              |
| National Security Agency:       |        |        |       |           |                      | Financial Manager:                  | D L Kreher   |
|                                 |        |        |       |           |                      |                                     | 294.00       |
| 12.901                          | E21097 | R50788 | 24305 | 930920    | MDA904-95-H-1019 P01 | NATIO-NSA - Codes & Designs         |              |
| National Security Agency:       |        |        |       |           |                      | Financial Manager:                  | V Tonchev    |
|                                 |        |        |       |           |                      |                                     | 3,943.09     |
| 12.901                          | E21098 | R50790 | 24305 | 931002    | MDA904-95-H-1039     | NATIO-NSA - Automorphism Groups     |              |
| National Security Agency:       |        |        |       |           |                      | Financial Manager:                  | R Jiang      |
|                                 |        |        |       |           |                      |                                     | 9,888.86     |
|                                 |        |        |       |           |                      |                                     | -----        |
|                                 |        |        |       |           |                      |                                     | 14,125.95    |
|                                 |        |        |       |           |                      |                                     | -----        |
| TOTAL FOR CFDA# 12.901          |        |        |       |           |                      |                                     | 14,125.95    |
| Dept of Interior Fed Pass Thru: |        |        |       |           |                      |                                     |              |
| 15.308                          | E27856 | R80548 | 22605 | 931130    | USDITPSUMTU-45242979 | PENNS-Diesel Emiss. Cntrl Coal Mine |              |
| Dept of Interior Fed Pass Thru: |        |        |       |           |                      | Financial Manager:                  | J H Johnson  |
|                                 |        |        |       |           |                      |                                     | 30,999.82    |
| 15.308                          | E27874 | R80532 | 22605 | 911221A4  | USDITPSU35242920-A01 | PENN STATE-MNRL Tech CNTR/Respiable |              |
| Dept of Interior Fed Pass Thru: |        |        |       |           |                      | Financial Manager:                  | J H Johnson  |
|                                 |        |        |       |           |                      |                                     | 9,517.32     |
|                                 |        |        |       |           |                      |                                     | -----        |
|                                 |        |        |       |           |                      |                                     | 40,517.14    |
|                                 |        |        |       |           |                      |                                     | -----        |
| TOTAL FOR CFDA# 15.308          |        |        |       |           |                      |                                     | 40,517.14    |
| National Park Service:          |        |        |       |           |                      |                                     |              |
| 15.610                          | E22716 | R50868 | 23005 | 941157    | 1443CA631095004 MOD1 | USPAR-Wolf/Moose Monitoring NPS     |              |
| National Park Service:          |        |        |       |           |                      | Financial Manager:                  | R O Peterson |
|                                 |        |        |       |           |                      |                                     | 1,276.37     |
| 15.610                          | E22720 | R50933 | 23005 | 941157    | 1443CA631095004 MOD2 | USPAR-Wolf/Moose Monitoring NPS     |              |
| National Park Service:          |        |        |       |           |                      | Financial Manager:                  | R O Peterson |
|                                 |        |        |       |           |                      |                                     | 30,655.88    |
|                                 |        |        |       |           |                      |                                     | -----        |
|                                 |        |        |       |           |                      |                                     | 31,932.25    |
|                                 |        |        |       |           |                      |                                     | -----        |
| TOTAL FOR CFDA# 15.610          |        |        |       |           |                      |                                     | 31,932.25    |
| National Biological Service     |        |        |       |           |                      |                                     |              |
| 15.975                          | E22719 | R10728 | 24105 | 961059    | 1445-CA06-96-0024,M1 | NBS-Fringe Boreal Watershed Ecosyst |              |
| National Biological Service     |        |        |       |           |                      | Financial Manager:                  | J H Adler    |
|                                 |        |        |       |           |                      |                                     | 44,305.08    |
|                                 |        |        |       |           |                      |                                     | -----        |
|                                 |        |        |       |           |                      |                                     | 44,305.08    |
|                                 |        |        |       |           |                      |                                     | -----        |
| TOTAL FOR CFDA# 15.975          |        |        |       |           |                      |                                     | 44,305.08    |

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|------------------------------|--------|--------|-------|-----------|--------------------|--------------------------------------|------------|
| Dept of Transportation       |        |        |       |           |                    |                                      |            |
| 20.108                       | E24790 | R50910 | 22505 | 950621    | 96-G-032           | FAA-Cockpit Display of Traffic Info  |            |
| Dept of Transportation       |        |        |       |           |                    | Financial Manager: J B Burl          | 33,833.63  |
|                              |        |        |       |           |                    |                                      | -----      |
|                              |        |        |       |           |                    |                                      | 33,833.63  |
|                              |        |        |       |           |                    |                                      | -----      |
| TOTAL FOR CFDA# 20.108       |        |        |       |           |                    |                                      | 33,833.63  |
| National Science Foundation: |        |        |       |           |                    |                                      |            |
| 47.041                       | E24014 | R50569 | 22605 | 900715A   | DDM-9025550 A-5    | NSF-Sht Metal Intelligent Stamping   |            |
| National Science Foundation: |        |        |       |           |                    | Financial Manager: K J Weinmann      | 101.48-    |
| 47.041                       | E24041 | R50594 | 22705 | 920136    | DMR-9212544-AMD003 | NSF-Solidification Multi Compd Oxide |            |
| National Science Foundation: |        |        |       |           |                    | Financial Manager: A Hellawell       | 9,405.07   |
| 47.041                       | E24047 | R50647 | 22505 | 930122A   | ECS-9308438        | NSF-Modeling Pwr Sys Transient Phen  |            |
| National Science Foundation: |        |        |       |           |                    | Financial Manager: B Mork            | 9,832.11   |
| 47.041                       | E24049 | R50652 | 22505 | 920240    | INT-9214087        | NSF-Realtivistic Ionization Form Pa  |            |
| National Science Foundation: |        |        |       |           |                    | Financial Manager: W F Perger        | 3,016.94   |
| 47.041                       | E24058 | R50670 | 22205 | 921104    | CTS-9303112 A01    | NSF-Analysis Shear-Flow Anomalies    |            |
| National Science Foundation: |        |        |       |           |                    | Financial Manager: F A Morrison      | 28,139.48  |
| 47.041                       | E24059 | R50671 | 24305 | 921104    | CTS-9303112 A01    | NSF-Analysis Shear-Flow Anomalies    |            |
| National Science Foundation: |        |        |       |           |                    | Financial Manager: R W Kolkka        | 8,702.40   |
| 47.041                       | E24064 | R50678 | 22605 | 930135    | CMS-9310476-AMD002 | NSF-Plastic Deformation & Fracture   |            |
| National Science Foundation: |        |        |       |           |                    | Financial Manager: E C Aifantis      | 253.61     |
| 47.041                       | E24074 | R50709 | 22205 | 921203    | CTS-9404156-AMD03  | NSF-Free Radical Retrograde Precip   |            |
| National Science Foundation: |        |        |       |           |                    | Financial Manager: G T Caneba        | 37,965.75  |
| 47.041                       | E24084 | R50740 | 22705 | 920902B   | DMR-9257465-AMD 05 | NSF-Young Investigator Award         |            |
| National Science Foundation: |        |        |       |           |                    | Financial Manager: W W Milligan      | 86,068.98  |
| 47.041                       | E24097 | R50757 | 22705 | 940329    | CTS-9414446        | NSF-Hexavalent Chromium Formation    |            |
| National Science Foundation: |        |        |       |           |                    | Financial Manager: C L Nassaralla    | 9,970.73   |
| 47.041                       | E24099 | R50759 | 22405 | 940316    | CMS-9413747        | NSF-Civil Mtls Resch Instrumentation |            |
| National Science Foundation: |        |        |       |           |                    | Financial Manager: F Arbabi          | 188,714.51 |

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|--|--------|--------|-------|-----------|--|---|------------|
| 47.041<br>National Science Foundation: | E24101 | R50761 | 22205 | 940630    | EEC-9420526 AMD006<br>Financial Manager:   | NSF-In Situ Subsurface Remediation<br>D R Shonnard    | 39,928.52  |
| 47.041<br>National Science Foundation: | E24102 | R50762 | 22555 | 940630    | EEC-9420526 AMD006<br>Financial Manager:   | NSF-In Situ Subsurface Remediation<br>A S Mayer       | 67,865.16  |
| 47.041<br>National Science Foundation: | E24106 | R50776 | 22555 | 940322    | CMS-9414361 - AMD003<br>Financial Manager: | NSF-Aquifer Heterogenetity Estimate<br>C T Young      | 21,785.09  |
| 47.041<br>National Science Foundation: | E24114 | R50792 | 22205 | 921203    | CTS-9404156-AMD03<br>Financial Manager:    | NSF-Free Radical Retrograde Precip<br>G T Caneba      | 35.88-     |
| 47.041<br>National Science Foundation: | E24116 | R50800 | 22605 | 941031    | DMI-9502109-AMD001<br>Financial Manager:   | NSF-Env Conscious Mach Tool Systems<br>J W Sutherland | 49,347.77  |
| 47.041<br>National Science Foundation: | E24120 | R50814 | 22205 | 950424    | CTS-9523936-AMD001<br>Financial Manager:   | NSF-Conductivity/Reaction Pathways<br>K H Schulz      | 84,553.02  |
| 47.041<br>National Science Foundation: | E24126 | R50835 | 22505 | 950516    | ECS-9526341<br>Financial Manager:          | NSF-Power System Fault Detection<br>F N Chowdhury     | 12,167.95  |
| 47.041<br>National Science Foundation: | E24127 | R50836 | 22605 | 950241    | DMI-9521494<br>Financial Manager:          | NSF-Studies-Ductile Regime Grinding<br>M H Miller     | 10,259.19  |
| 47.041<br>National Science Foundation: | E24130 | R50841 | 22705 | 950427    | CTS-9524970-AMD002<br>Financial Manager:   | NSF-Reclamation Iron & Zinc Units<br>C L Nassaralla   | 120,731.62 |
| 47.041<br>National Science Foundation: | E24131 | R50856 | 22405 | 950623    | CMS-9528182<br>Financial Manager:          | NSF-Utiliz Composite Mtls Civil Eng<br>S A Sorby      | 9,203.03   |
| 47.041<br>National Science Foundation: | E24138 | R50870 | 22555 | 940322    | CMS-9414361 - AMD003<br>Financial Manager: | NSF-Aquifer Heterogenetity Estimate<br>C T Young      | 906.55     |
| 47.041<br>National Science Foundation: | E24142 | R50881 | 22205 | 950917    | CTS-9532086<br>Financial Manager:          | NSF-Engr Rech Equipment: HREELS<br>K H Schulz         | 50,712.50  |
| 47.041<br>National Science Foundation: | E24145 | R50885 | 22605 | 950933    | CMS-9622669<br>Financial Manager:          | NSF-Rsch Equipment-Robotic Platform<br>G Parker       | 24,560.00  |
| 47.041<br>National Science Foundation: | E24150 | R50908 | 22605 | 950928    | DMI-9622246-AMD001<br>Financial Manager:   | NSF-Flow Simulation & Mold Design<br>M Gupta          | 30,452.59  |
| 47.041<br>National Science Foundation: | E24152 | R50913 | 22605 | 960505    | DMI-9613076<br>Financial Manager:          | NSF - NSF/EPA Prtnrshp Environ Rech<br>W W Olson      | 53,120.11  |

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MICHIGAN TECHNOLOGICAL UNIVERSITY  
 Research - Summary Expense by CFDA#  
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| CFDA#                               | Index  | Fund   | Orgn  | Proposal# | Contract #             | Fund Title                          | Amount       |
|-------------------------------------|--------|--------|-------|-----------|------------------------|-------------------------------------|--------------|
| 47.041                              | E24155 | R50942 | 22405 | 960920    | EEC-9619665            | NSF-Env Engg Rach Undergrads at MTU |              |
| National Science Foundation:        |        |        |       |           | Financial Manager:     | K G Paterson                        | 35,800.91    |
| 47.041                              | E24156 | R50946 | 22505 | 960916    | EEC-9619646            | NSF-GaAs-Based Integrated Circuits  |              |
| National Science Foundation:        |        |        |       |           | Financial Manager:     | A K Goel                            | 28,645.62    |
| 47.041                              | E24157 | R50947 | 22505 | 960916    | EEC-9619646            | NSF-GaAs-Based Integrated Circuits  |              |
| National Science Foundation:        |        |        |       |           | Financial Manager:     | A K Goel                            | 10,651.50    |
| 47.041                              | E24163 | R50969 | 22505 | 960620    | ECS-9615658            | NSF-Utility Storm Management        |              |
| National Science Foundation:        |        |        |       |           | Financial Manager:     | N N Schulz                          | 5,223.05     |
| 47.041                              | E24166 | R50977 | 22605 | 960924    | CMS-9610491-AMD001     | NSF - Strain Gradient Plasticity    |              |
| National Science Foundation:        |        |        |       |           | Financial Manager:     | Y Y Huang                           | 3,175.76     |
| 47.041                              | E24169 | R50983 | 22605 | 960924    | CMS-9610491-AMD001     | NSF - Strain Gradient Plasticity    |              |
| National Science Foundation:        |        |        |       |           | Financial Manager:     | Y Y Huang                           | 294.38       |
| 47.041                              | E24170 | R50985 | 22605 | 970345    | DWI-9628984 Amd 1      | NSF-Career Award Scientists/Engra   |              |
| National Science Foundation:        |        |        |       |           | Financial Manager:     | J W Sutherland                      | 10,091.61    |
| 47.041                              | E24175 | R50996 | 22505 | 960910    | ECS-9619320            | NSF-Multimedia Course Elec Energy   |              |
| National Science Foundation:        |        |        |       |           | Financial Manager:     | L J Bohmann                         | 995.19       |
| 47.041                              | E25460 | R80575 | 22605 | 950240    | CSM# 4-41578           | COLOR-Interfacial Issue Multi-Chip  |              |
| National Science Foundation Fed Pas |        |        |       |           | Financial Manager:     | A Chandra                           | 20,937.24    |
| 47.041                              | E28639 | R80544 | 22605 | 930825    | SUB #94-152 - AMD003   | UNIVE-ILL-Coalition Mach. Tool Tech |              |
| National Science Foundation Fed Pas |        |        |       |           | Financial Manager:     | J W Sutherland                      | 105,063.45   |
| 47.041                              | E33747 | S90129 | 22205 | 940630    | EEC-9420526 AMD006     | MTU Fellowship Account              |              |
| National Science Foundation:        |        |        |       |           | Financial Manager:     | D R Shonnard                        | 1,058.33     |
|                                     |        |        |       |           |                        |                                     | -----        |
|                                     |        |        |       |           |                        |                                     | 1,179,462.36 |
|                                     |        |        |       |           |                        |                                     | -----        |
|                                     |        |        |       |           | TOTAL FOR CFDA# 47.041 |                                     | 1,179,462.36 |
| National Science Foundation:        |        |        |       |           |                        |                                     |              |
| 47.049                              | E24036 | R50589 | 22705 | 911208A   | DMR-9206783 AMD03      | NSF-The Grain Structure Of Castings |              |
| National Science Foundation:        |        |        |       |           | Financial Manager:     | A Hellawell                         | 0.00         |
| 47.049                              | E24063 | R50677 | 24605 | 930109    | DMR-9308168-AMD#02     | NSF-Cluster Assem Nanophase Meals N |              |
| National Science Foundation:        |        |        |       |           | Financial Manager:     | B H Suits                           | 64,357.00    |

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|--|--------|--------|-------|-----------|--|--|------------|
| 47.049<br>National Science Foundation: | E24067 | R50699 | 24605 | 890603B   | PHY-9317828 AMD002<br>Financial Manager: | NSF-Lanthanide/Actinide Atoms & Neg<br>D R Beck        | 50,402.35  |
| 47.049<br>National Science Foundation: | E24073 | R50704 | 24305 | 930914    | DMS-9322460-AMD002<br>Financial Manager: | NSF-Probabilistic Graph-Number Theo<br>A P Godbole     | 1,631.06   |
| 47.049<br>National Science Foundation: | E24081 | R50739 | 22705 | 931038    | DMR-9400507-AMD002<br>Financial Manager: | NSF-Relationship Trialuminide Alloy<br>D E Mikkola     | 108,374.44 |
| 47.049<br>National Science Foundation: | E24091 | R50747 | 22705 | 940141    | DMR-9410454-AMD002<br>Financial Manager: | NSF-Lateral Growth Instabilities<br>S A Hackney        | 66,310.63  |
| 47.049<br>National Science Foundation: | E24118 | R50804 | 24305 | 941107    | DMS-9504949<br>Financial Manager:        | NSF-Multinomial Density Estimation<br>J Dong           | 5,873.15   |
| 47.049<br>National Science Foundation: | E24119 | R50805 | 24305 | 950107    | DMS-9510513<br>Financial Manager:        | NSF-Anisotropy & Nonlinear Behavior<br>T R Olson       | 6,514.13   |
| 47.049<br>National Science Foundation: | E24123 | R50827 | 22305 | 950253    | CHE-9512445-AMD01<br>Financial Manager:  | NSF-Nuclear Magnetic Resonance Spec<br>P P Murthy      | 65,229.84  |
| 47.049<br>National Science Foundation: | E24134 | R50859 | 22705 | 950256    | DMR-9521875-AMD001<br>Financial Manager: | NSF-The Grain Structure of Castings<br>A Hellawell     | 62,181.93  |
| 47.049<br>National Science Foundation: | E24144 | R50884 | 22705 | 951013    | DMR-9624456-AMD001<br>Financial Manager: | NSF-Epitaxial Nonostructure Silicon<br>M Krishnamurthy | 54,103.75  |
| 47.049<br>National Science Foundation: | E24146 | R50886 | 22705 | 950111    | DMR-9520173<br>Financial Manager:        | NSF-Numerical Class. Microstructure<br>A Hellawell     | 208,604.48 |
| 47.049<br>National Science Foundation: | E24147 | R50888 | 24305 | 930914    | DMS-9322460-AMD002<br>Financial Manager: | NSF-Probabilistic Graph-Number Theo<br>A P Godbole     | 5,471.97   |
| 47.049<br>National Science Foundation: | E24158 | R50958 | 24605 | 960819    | AST-9618803<br>Financial Manager:        | NSF-Deep Circumstellar Imaging<br>C Ftacis             | 10,588.44  |
| 47.049<br>National Science Foundation: | E24159 | R50959 | 24305 | 960921    | DMS-9619889<br>Financial Manager:        | NSF-REU/Discrete Random Structures<br>A P Godbole      | 24,054.94  |
| 47.049<br>National Science Foundation: | E24164 | R50972 | 22705 | 961032    | DMR-9702263<br>Financial Manager:        | NSF-Glass Forming Ability Alloys<br>D J Swenson        | 8,865.06   |
| 47.049<br>National Science Foundation: | E24638 | R50723 | 22705 | 940112    | DMR-9409718<br>Financial Manager:        | NSF-X-Ray Fluorescence Spectrometer<br>D E Mikkola     | 12,000.00  |

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| CFDA#                        | Index  | Fund   | Orgn  | Proposal# | Contract #         | Fund Title                          | Amount     |
|------------------------------|--------|--------|-------|-----------|--------------------|-------------------------------------|------------|
| 47.049                       | E33951 | S90074 | 22705 | 931038    | DMR-9400507-AMD002 | NSF-Trialuminide Alloys Fellowship  |            |
| National Science Foundation: |        |        |       |           |                    | Financial Manager: D E Mikkola      | 8,817.31   |
|                              |        |        |       |           |                    |                                     | 763,380.52 |
| TOTAL FOR CFDA# 47.049       |        |        |       |           |                    |                                     | 763,380.52 |
| National Science Foundation: |        |        |       |           |                    |                                     |            |
| 47.050                       | E24079 | R10644 | 22555 | 931138    | EAR-9406093-AMD001 | NSF-Fate/Transport Volcan. Ash      |            |
| National Science Foundation: |        |        |       |           |                    | Financial Manager: W I Rose         | 46,236.58  |
| 47.050                       | E24082 | R50736 | 22405 | 920920    | ATM-9300166 AMD003 | USTRE-Nitrogen Oxides in Photochem. |            |
| National Science Foundation: |        |        |       |           |                    | Financial Manager: R E Honrath      | 69,721.64  |
| 47.050                       | E24089 | R50745 | 22555 | 931135    | EAR-9414305-AMD001 | NSF-Rock Mag Prop Tephrochology     |            |
| National Science Foundation: |        |        |       |           |                    | Financial Manager: S J Beske-Diehl  | 1,102.33   |
| 47.050                       | E24133 | R50858 | 22405 | 950622    | ATM-9528031        | NSF-The Arctic Outflow Campaign     |            |
| National Science Foundation: |        |        |       |           |                    | Financial Manager: R E Honrath      | 36,103.94  |
| 47.050                       | E24136 | R50866 | 22555 | 950522    | EAR-9527263        | NSF-Debris/Hyperconcentrated Flow   |            |
| National Science Foundation: |        |        |       |           |                    | Financial Manager: J W Vallance     | 50,075.56  |
| 47.050                       | E24143 | R50883 | 22555 | 951202    | EAR-9628575        | NSF-Eruptive History Mount Rainier  |            |
| National Science Foundation: |        |        |       |           |                    | Financial Manager: J W Vallance     | 11,410.40  |
| 47.050                       | E24148 | R50892 | 24605 | 950312    | ATM-9512685-AMD001 | NSF-Polarimetric Doppler Radar      |            |
| National Science Foundation: |        |        |       |           |                    | Financial Manager: A B Kostinski    | 38,153.69  |
| 47.050                       | E24165 | R50974 | 22405 | 920920    | ATM-9300166 AMD003 | USTRE-Nitrogen Oxides in Photochem. |            |
| National Science Foundation: |        |        |       |           |                    | Financial Manager: R E Honrath      | 2,127.63   |
| 47.050                       | E24168 | R50982 | 22555 | 961142    | EAR-9705718        | NSF-Magnetic Susceptibility Variati |            |
| National Science Foundation: |        |        |       |           |                    | Financial Manager: J F Diehl        | 887.88     |
|                              |        |        |       |           |                    |                                     | 255,819.65 |
| TOTAL FOR CFDA# 47.050       |        |        |       |           |                    |                                     | 255,819.65 |
| National Science Foundation: |        |        |       |           |                    |                                     |            |
| 47.069                       | E24033 | R50586 | 22605 | 920116A   | DDM-9210883        | NSF-Interference Free Spatial Mecha |            |
| National Science Foundation: |        |        |       |           |                    | Financial Manager: Z Ling           | 6,654.35   |
|                              |        |        |       |           |                    |                                     | 6,654.35   |
| TOTAL FOR CFDA# 47.069       |        |        |       |           |                    |                                     | 6,654.35   |

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|------------------------------|--------|--------|-------|-----------|----------------------|---------------------------------------|--------------|-----------|
| National Science Foundation: |        |        |       |           |                      |                                       |              |           |
| 47.070                       | E24050 | R50653 | 24405 | 930116    | CCR-9308348 AMD003   | NSF-RIA Global Instruction Scheduling |              |           |
| National Science Foundation: |        |        |       |           |                      | Financial Manager:                    | P H Sweany   | 14,535.08 |
| 47.070                       | E24065 | R50691 | 22505 | 920825    | MIP-9223989 AMD004   | NSF-Models/Gas Based Integrated Cir   |              |           |
| National Science Foundation: |        |        |       |           |                      | Financial Manager:                    | A K Goel     | 8,102.37  |
| 47.070                       | E24092 | R50750 | 22505 | 940115    | MIP-9409686-AMD002   | NSF-RIA/Convex Design Signal System   |              |           |
| National Science Foundation: |        |        |       |           |                      | Financial Manager:                    | J O Coleman  | 44,328.63 |
| 47.070                       | E24098 | R50758 | 24405 | 940111    | CCR-9409341-AMD003   | NSF-Improving Cache Performance       |              |           |
| National Science Foundation: |        |        |       |           |                      | Financial Manager:                    | S M Carr     | 38,936.52 |
| 47.070                       | E24122 | R50825 | 22505 | 941016    | MIP-9501163 AMD01    | NSF-Electron Microscopy & Astronomy   |              |           |
| National Science Foundation: |        |        |       |           |                      | Financial Manager:                    | T J Schulz   | 56,110.49 |
| 47.070                       | E24137 | R50867 | 24405 | 950116    | CCR-9696084          | NSF-Cyclides in Geometric Modeling    |              |           |
| National Science Foundation: |        |        |       |           |                      | Financial Manager:                    | C K Shene    | 14,820.92 |
| 47.070                       | E24140 | R50874 | 22505 | 940115    | MIP-9409686-AMD002   | NSF-RIA/Convex Design Signal System   |              |           |
| National Science Foundation: |        |        |       |           |                      | Financial Manager:                    | J O Coleman  | 4,483.28  |
|                              |        |        |       |           |                      |                                       | 181,317.29   |           |
| TOTAL FOR CFDA# 47.070       |        |        |       |           |                      |                                       | 181,317.29   |           |
| National Science Foundation: |        |        |       |           |                      |                                       |              |           |
| 47.072                       | E24055 | R50663 | 22555 | 930125    | BCS-9309050-AMD #002 | NSF-Nonequilibrium Vadose Zone Tran   |              |           |
| National Science Foundation: |        |        |       |           |                      | Financial Manager:                    | A S Mayer    | 18,096.98 |
| 47.072                       | E33952 | S90075 | 22555 | 930125    |                      | MTU/NSF-Christopher Wojcik Fellow     |              |           |
| National Science Foundation: |        |        |       |           |                      | Financial Manager:                    | A S Mayer    | 8,463.67  |
|                              |        |        |       |           |                      |                                       | 26,560.65    |           |
| TOTAL FOR CFDA# 47.072       |        |        |       |           |                      |                                       | 26,560.65    |           |
| National Science Foundation: |        |        |       |           |                      |                                       |              |           |
| 47.074                       | E24072 | R50703 | 28505 | 930606    | DEB-9317401-AMD005   | NSF-LTREB Trophic Dyn Wolves/Moose    |              |           |
| National Science Foundation: |        |        |       |           |                      | Financial Manager:                    | R O Peterson | 59,529.54 |

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|------------------------------|--------|--------|-------|-----------|----------------------|-------------------------------------|------------|
| 47.074                       | E24078 | R50718 | 23005 | 940526    | DEB-9496197-AMD002   | NSF-Soil Temp/Nitrate Fine Root Cst |            |
| National Science Foundation: |        |        |       |           | Financial Manager:   | K S Pregitzer                       | 47,087.13  |
| 47.074                       | E24093 | R50751 | 23005 | 940314    | BIR-9413407          | NSF-Acquisition of Instrumentation  |            |
| National Science Foundation: |        |        |       |           | Financial Manager:   | K S Pregitzer                       | 25,281.50  |
| 47.074                       | E24094 | R50752 | 23805 | 910526A3  | IBN-9118366-AMD 03   | NSF-Metabolic Response/Conifers Str |            |
| National Science Foundation: |        |        |       |           | Financial Manager:   | V L Chiang                          | 140.46     |
| 47.074                       | E24112 | R50789 | 24105 | 940633    | MCB-9420313-AMEND002 | NSF-Biochemistry Nitrate Reductase  |            |
| National Science Foundation: |        |        |       |           | Financial Manager:   | W H Campbell                        | 59,915.77  |
| 47.074                       | E24115 | R50793 | 23005 | 950218    | DEB-9521148          | NSF-The Gribben Buried Forest       |            |
| National Science Foundation: |        |        |       |           | Financial Manager:   | K S Pregitzer                       | 19,126.70  |
| 47.074                       | E24128 | R50837 | 24107 | 950131    | DEB-9520704          | NSF-Groundwater Lake Interactions   |            |
| National Science Foundation: |        |        |       |           | Financial Manager:   | W C Kerfoot                         | 1,562.77   |
| 47.074                       | E24129 | R50839 | 24107 | 950601    | DEB-9527358-AMD02    | NSF-Littoral Communities of Lakes   |            |
| National Science Foundation: |        |        |       |           | Financial Manager:   | W C Kerfoot                         | 111,516.33 |
| 47.074                       | E24139 | R50872 | 23005 | 940526    | DEB-9496197-AMD002   | NSF-Soil Temp/Nitrate Fine Root Cst |            |
| National Science Foundation: |        |        |       |           | Financial Manager:   | K S Pregitzer                       | 1,185.06   |
| 47.074                       | E24141 | R50876 | 24107 | 950601    | DEB-9527358-AMD02    | NSF-Littoral Communities of Lakes   |            |
| National Science Foundation: |        |        |       |           | Financial Manager:   | W C Kerfoot                         | 4,143.80   |
| 47.074                       | E24149 | R50906 | 23005 | 960121    | DBI-9601942          | NSF-Monitoring Equip-FACE Facility  |            |
| National Science Foundation: |        |        |       |           | Financial Manager:   | D F Karnosky                        | 140,932.74 |
| 47.074                       | E24151 | R50912 | 23007 | 951208    | DEB-9629842-AMD002   | NSF-Cycling NO3-N N. Hrdwd. Forests |            |
| National Science Foundation: |        |        |       |           | Financial Manager:   | K S Pregitzer                       | 89,679.32  |
| 47.074                       | E24153 | R50915 | 23005 | 960419    | IBN-9652675          | NSF-Community & Ecosystem Dynamics  |            |
| National Science Foundation: |        |        |       |           | Financial Manager:   | D F Karnosky                        | 298,229.72 |
| 47.074                       | E24161 | R50966 | 23007 | 960614    | DEB-9615509          | NSF-Below-Ground Carbon Allocation  |            |
| National Science Foundation: |        |        |       |           | Financial Manager:   | K S Pregitzer                       | 18,609.86  |
| 47.074                       | E24162 | R50968 | 23007 | 951208    | DEB-9629842-AMD002   | NSF-Cycling NO3-N N. Hrdwd. Forests |            |
| National Science Foundation: |        |        |       |           | Financial Manager:   | K S Pregitzer                       | 2,021.09   |
| 47.074                       | E24173 | R50990 | 28505 | 930606    | DEB-9317401-AMD005   | NSF-LTREB Trophic Dyn Wolves/Moose  |            |
| National Science Foundation: |        |        |       |           | Financial Manager:   | R O Peterson                        | 1,250.00   |

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|-------------------------------------|--------|--------|-------|-----------|--------------------|--------------------------------------|------------|
| 47.074                              | E33869 | S90099 | 28505 | 930606    | DEB-9317401-AMD005 | MTU/NSF - Leah Cayo Fellowship       |            |
| National Science Foundation:        |        |        |       |           | Financial Manager: | R O Peterson                         | 2,463.73   |
| 47.074                              | E33870 | S90100 | 23805 | 910526A3  | IBN-9118366-AMD 03 | NSF-METABOLIC RESPONSE FELLOWSHIP    |            |
| National Science Foundation:        |        |        |       |           | Financial Manager: | V L Chiang                           | 244.39     |
|                                     |        |        |       |           |                    |                                      | 882,919.91 |
|                                     |        |        |       |           |                    |                                      | 882,919.91 |
|                                     |        |        |       |           |                    | TOTAL FOR CFDA# 47.074               | 882,919.91 |
| National Science Foundation:        |        |        |       |           |                    |                                      |            |
| 47.075                              | E24090 | R50749 | 22705 | 940307    | INT-9415418 AMD003 | NSF-Entrainment Froth Float.-Coal    |            |
| National Science Foundation:        |        |        |       |           | Financial Manager: | S K Kawatra                          | 5,799.72   |
| 47.075                              | E24110 | R80555 | 24305 | 941007    | 1/08/97 Letter     | NRC-Twinning Prgm Bulgaria/Romania   |            |
| National Science Foundation Fed Pas |        |        |       |           | Financial Manager: | A H Baartmans                        | 5,582.51   |
| 47.075                              | E24121 | R50824 | 23005 | 950201    | INT-9511826        | NSF-Micombo Ecosystem Processes      |            |
| National Science Foundation:        |        |        |       |           | Financial Manager: | P V Desanker                         | 3,639.02   |
| 47.075                              | E24124 | R50831 | 22555 | 941155    | INT-9507137        | NSF-Paleoclimate/Mnrl Magnetic Resch |            |
| National Science Foundation:        |        |        |       |           | Financial Manager: | J F Diehl                            | 5,017.04   |
| 47.075                              | E24154 | R50934 | 22555 | 960519    | INT-9613647        | NSF-Volcanic Hazard in El Salvador   |            |
| National Science Foundation:        |        |        |       |           | Financial Manager: | W I Rose                             | 3,900.61   |
| 47.075                              | E27519 | R80587 | 22555 | 960403    | 960403             | NATIO-Cobase Visit Ural Mining Inst  |            |
| National Science Foundation Fed Pas |        |        |       |           | Financial Manager: | W D Pennington                       | 2,200.00   |
|                                     |        |        |       |           |                    |                                      | 26,138.90  |
|                                     |        |        |       |           |                    |                                      | 26,138.90  |
|                                     |        |        |       |           |                    | TOTAL FOR CFDA# 47.075               | 26,138.90  |
| National Science Foundation:        |        |        |       |           |                    |                                      |            |
| 47.076                              | E24096 | R50754 | 24305 | 931123    | DUE-9452211        | NSF-Model Cmpt Lab-Math Undergrads   |            |
| National Science Foundation:        |        |        |       |           | Financial Manager: | B J Baartmans                        | 2,220.49   |
| 47.076                              | E24104 | R50772 | 22405 | 940503    | DUE-9455143        | NSF-Develop Visual Skill Engr Stdnt  |            |
| National Science Foundation:        |        |        |       |           | Financial Manager: | S A Sorby                            | 6,218.91   |
| 47.076                              | E24108 | R50783 | 24305 | 940503    | DUE-9455143        | NSF-Develop Visual Skill Engr Stdnt  |            |
| National Science Foundation:        |        |        |       |           | Financial Manager: | B J Baartmans                        | 2,304.52   |

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|-------------------------------------|--------|--------|-------|-----------|-------------------|-------------------------------------|------------|
| 47.076                              | E24125 | R50833 | 22205 | 950121    | DUE-9553671       | NSF-Advanced Process Operations Prg |            |
| National Science Foundation:        |        |        |       |           |                   | Financial Manager: E R Fisher       | 179,261.76 |
| 47.076                              | E24132 | R50857 | 24305 | 950606    | DUE-9554970       | NSF-Revitalize Undergrad # Theory   |            |
| National Science Foundation:        |        |        |       |           |                   | Financial Manager: J J Holt         | 51,276.63  |
| 47.076                              | E24135 | R50865 | 22555 | 941036    | GER-9550381       | NSF-Bridging Pure & Applied Geology |            |
| National Science Foundation:        |        |        |       |           |                   | Financial Manager: M G Bjornerud    | 54,797.68  |
| 47.076                              | E24160 | R50960 | 24405 | 960603    | DUE-9653244       | NSF-Geometric Computing/Undergrads  |            |
| National Science Foundation:        |        |        |       |           |                   | Financial Manager: C K Shene        | 54,307.37  |
| 47.076                              | E24636 | R50716 | 22405 | 931124    | DUE-9452197       | NSF-Civil Engr Materials Lab Equipm |            |
| National Science Foundation:        |        |        |       |           |                   | Financial Manager: G R Dewey        | 44,074.49  |
| 47.076                              | E27158 | R80554 | 24305 | 941044    | 61-5804C-AMD02    | MSU-Transform Teacher Educ at MTU   |            |
| National Science Foundation Fed Pas |        |        |       |           |                   | Financial Manager: B J Baartmans    | 275.00     |
|                                     |        |        |       |           |                   |                                     | -----      |
|                                     |        |        |       |           |                   |                                     | 394,736.85 |
|                                     |        |        |       |           |                   |                                     | -----      |
| TOTAL FOR CFDA# 47.076              |        |        |       |           |                   |                                     | 394,736.85 |
| U S Small Business Admin Fed Pass:  |        |        |       |           |                   |                                     |            |
| 59.000                              | E28745 | R40635 | 28705 | 950106    | Y-078583          | WAYNE-SBDC Defense Econ Transition  |            |
| U S Small Business Admin Fed Pass:  |        |        |       |           |                   | Financial Manager: E J White        | 44,752.99  |
|                                     |        |        |       |           |                   |                                     | -----      |
|                                     |        |        |       |           |                   |                                     | 44,752.99  |
|                                     |        |        |       |           |                   |                                     | -----      |
| TOTAL FOR CFDA# 59.000              |        |        |       |           |                   |                                     | 44,752.99  |
| U S Small Business Admin Fed Pass:  |        |        |       |           |                   |                                     |            |
| 59.037                              | E28806 | R40633 | 28705 | 930153P   | 96MI-R01 Y-091352 | WAYNE-Michigan SEA Dev Center FY96  |            |
| U S Small Business Admin Fed Pass:  |        |        |       |           |                   | Financial Manager: J M Hainault     | 2,624.48-  |
|                                     |        |        |       |           |                   |                                     | -----      |
|                                     |        |        |       |           |                   |                                     | 2,624.48-  |
|                                     |        |        |       |           |                   |                                     | -----      |
| TOTAL FOR CFDA# 59.037              |        |        |       |           |                   |                                     | 2,624.48-  |

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|-------------------------------------|--------|--------|-------|-----------|----------------------|-------------------------------------|----------------|
| U S Enviromental Protection Agency: |        |        |       |           |                      |                                     |                |
| 66.501                              | E24200 | R50949 | 22405 | 960238    | R825370-01-0         | EPA - ETDOT                         |                |
| U S Enviromental Protection Agency: |        |        |       |           |                      | Financial Manager:                  | D W Hand       |
|                                     |        |        |       |           |                      |                                     | 8,381.76       |
| 66.501                              | E24201 | R50950 | 22405 | 960238    | R825370-01-0         | EPA-Organic Recovery ADSORP/DIST    |                |
| U S Enviromental Protection Agency: |        |        |       |           |                      | Financial Manager:                  | J C Crittenden |
|                                     |        |        |       |           |                      |                                     | 7,158.40       |
| 66.501                              | E24202 | R50951 | 22205 | 960238    | R825370-01-0         | EPA-Design Options Ranking Tool     |                |
| U S Enviromental Protection Agency: |        |        |       |           |                      | Financial Manager:                  | B A Barina     |
|                                     |        |        |       |           |                      |                                     | 18,454.33      |
| 66.501                              | E24203 | R50954 | 22405 | 960238    | R825370-01-0-AMD01   | EPA - ETDOT                         |                |
| U S Enviromental Protection Agency: |        |        |       |           |                      | Financial Manager:                  | D W Hand       |
|                                     |        |        |       |           |                      |                                     | 7,061.55       |
| 66.501                              | E24204 | R50955 | 22205 | 960238    | R825370-01-0-AMD01   | EPA-Heuristic Reactor/Cln Synthesis |                |
| U S Enviromental Protection Agency: |        |        |       |           |                      | Financial Manager:                  | M E Mullins    |
|                                     |        |        |       |           |                      |                                     | 9,351.78       |
| 66.501                              | E24205 | R50956 | 22405 | 960238    | R825370-01-0-AMD01   | EPA - Env Consc Design-Construction |                |
| U S Enviromental Protection Agency: |        |        |       |           |                      | Financial Manager:                  | R M Patty      |
|                                     |        |        |       |           |                      |                                     | 20,338.89      |
| 66.501                              | E24206 | R50961 | 22205 | 960238    | R825370-01-0         | EPA - EFRAT                         |                |
| U S Enviromental Protection Agency: |        |        |       |           |                      | Financial Manager:                  | D R Shonnard   |
|                                     |        |        |       |           |                      |                                     | 5,164.26       |
| 66.501                              | E24207 | R50962 | 22405 | 960238    | R825370-01-0         | EPA - CPAS Core Activities          |                |
| U S Enviromental Protection Agency: |        |        |       |           |                      | Financial Manager:                  | J R Baker      |
|                                     |        |        |       |           |                      |                                     | 33,965.79      |
| 66.501                              | E24208 | R50964 | 22405 | 960238    | R825370-01-0         | EPA - CenCITT Subcontracts          |                |
| U S Enviromental Protection Agency: |        |        |       |           |                      | Financial Manager:                  | J C Crittenden |
|                                     |        |        |       |           |                      |                                     | 53,541.43      |
| 66.501                              | E24209 | R50965 | 22405 | 960238    | R825370-01-0         | EPA - CenCITT Administration        |                |
| U S Enviromental Protection Agency: |        |        |       |           |                      | Financial Manager:                  | J C Crittenden |
|                                     |        |        |       |           |                      |                                     | 78,723.73      |
| 66.501                              | E24210 | R50979 | 22205 | 960238    | R825370-01-0-AMD01   | EPA-Design Tools for Process Safety |                |
| U S Enviromental Protection Agency: |        |        |       |           |                      | Financial Manager:                  | D A Crowl      |
|                                     |        |        |       |           |                      |                                     | 17,272.50      |
| 66.501                              | E24211 | R50980 | 22605 | 960238    | R825370-01-0-AMD01   | EPA-ECM Waste Streams Discrete Prod |                |
| U S Enviromental Protection Agency: |        |        |       |           |                      | Financial Manager:                  | J W Sutherland |
|                                     |        |        |       |           |                      |                                     | 1,756.00       |
| 66.501                              | E24212 | R50981 | 22205 | 960238    | R825370-01-0-AMD01   | EPA-Physical Property Mgt System    |                |
| U S Enviromental Protection Agency: |        |        |       |           |                      | Financial Manager:                  | T N Rogers     |
|                                     |        |        |       |           |                      |                                     | 2,856.59       |
| 66.501                              | E24684 | R50725 | 22405 | 900713D   | R819688-02-0-AMEND04 | EPA-Cen CITT Administration         |                |
| U S Enviromental Protection Agency: |        |        |       |           |                      | Financial Manager:                  | J C Crittenden |
|                                     |        |        |       |           |                      |                                     | 18,279.26      |
| 66.501                              | E24685 | R50726 | 22205 | 900713D   | R819688-02-0-AMEND04 | EPA-CPAS Case Study                 |                |
| U S Enviromental Protection Agency: |        |        |       |           |                      | Financial Manager:                  | N K Kim        |
|                                     |        |        |       |           |                      |                                     | 2,253.29       |

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| 66.501 | E24686 | R50727 | 22205 | 900713D   | R819688-02-0-AMEND04 | EPA-CPAS Physical Properties<br>U S Environmental Protection Agency:<br>Financial Manager: T N Rogers            | 669.52    |
| 66.501 | E24687 | R50728 | 22405 | 900713D   | R819688-02-0-AMEND04 | EPA-CPAS ETDOT<br>U S Environmental Protection Agency:<br>Financial Manager: D W Hand                            | 55.90-    |
| 66.501 | E24688 | R50729 | 22205 | 900713D   | R819688-02-0-AMEND04 | EPA-CPAS Ranking Tool<br>U S Environmental Protection Agency:<br>Financial Manager: B A Barna                    | 18.18-    |
| 66.501 | E24689 | R50730 | 22205 | 900713D   | R819688-02-0-AMEND04 | EPA-CPAS Safety Evaluation<br>U S Environmental Protection Agency:<br>Financial Manager: D A Crowl               | 80.14-    |
| 66.501 | E24690 | R50731 | 22205 | 900713D   | R819688-02-0-AMEND04 | EPA-CPAS EFRAT<br>U S Environmental Protection Agency:<br>Financial Manager: D R Shonnard                        | 8.85      |
| 66.501 | E24691 | R50732 | 22205 | 900713D   | R819688-02-0-AMEND04 | EPA-CPAS Core<br>U S Environmental Protection Agency:<br>Financial Manager: B A Barna                            | 18,492.15 |
| 66.501 | E24693 | R50734 | 22405 | 900713D   | R819688-02-0-AMEND04 | EPA-EMU Assessment<br>U S Environmental Protection Agency:<br>Financial Manager: G R Dewey                       | 6,140.05  |
| 66.501 | E24694 | R50735 | 22605 | 900713D   | R819688-02-0-AMEND04 | EPA-Cen CITT Env. Conscious Manufac<br>U S Environmental Protection Agency:<br>Financial Manager: W W Olson      | 218.00-   |
| 66.501 | E24697 | R50780 | 22205 | 900713D   | R819688-02-0-AMEND04 | EPA-Cen CITT-RREL Data<br>U S Environmental Protection Agency:<br>Financial Manager: T N Rogers                  | 3,126.29  |
| 66.501 | E24698 | R50781 | 22205 | 900713D   | R819688-02-0-AMEND04 | EPA-Cen CITT-RREL Waste Inv Factors<br>U S Environmental Protection Agency:<br>Financial Manager: D R Shonnard   | 10,108.83 |
| 66.501 | E24713 | R50608 | 22205 | 900713B8  | R819688-02-0-AMEND04 | EPA-CCITT<br>U S Environmental Protection Agency:<br>Financial Manager: B A Barna                                | 18.17-    |
| 66.501 | E24724 | R50640 | 22405 | 900713C1  | R819688-02-0-AMEND04 | EPA-ENVIRONMENTAL RISK PROJECT I-CC<br>U S Environmental Protection Agency:<br>Financial Manager: J C Crittenden | 0.00      |
| 66.501 | E24726 | R50643 | 22405 | 900713C1  | R819688-02-0-AMEND04 | EPA-Combustion Residual Characteriz<br>U S Environmental Protection Agency:<br>Financial Manager: G R Dewey      | 82.86-    |
| 66.501 | E24727 | R50644 | 22705 | 900713C1  | R819688-02-0-AMEND04 | EPA-Agglomeration Ultrafine Particu<br>U S Environmental Protection Agency:<br>Financial Manager: S K Kawatra    | 343.53    |
| 66.501 | E24734 | R50748 | 22405 | 900713C1  | R819688-02-0-AMEND04 | EPA-CenCITT Photocatalysis<br>U S Environmental Protection Agency:<br>Financial Manager: D W Hand                | 16.36-    |

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|--------------------------------------|--------|--------|-------|-----------|----------------------|-------------------------------------|------------|
| 66.501                               | E24736 | R50784 | 22705 | 900713C1  | R819688-02-0-AMEND04 | CenCITT - Recycling Lead Wastes     |            |
| U S Environmental Protection Agency: |        |        |       |           | Financial Manager:   | C C Nesbitt                         | 1,760.46-  |
| 66.501                               | E24737 | R50875 | 22405 | 900713    | R819688-02-0-AMEND04 | EPA-Cen CITT Administration         |            |
| U S Environmental Protection Agency: |        |        |       |           | Financial Manager:   | J C Crittenden                      | 597,369.34 |
| 66.501                               | E24738 | R50807 | 22405 | 900713    | R819688-02-0-AMEND04 | EPA - ETDOT                         |            |
| U S Environmental Protection Agency: |        |        |       |           | Financial Manager:   | D W Hand                            | 25,342.35  |
| 66.501                               | E24739 | R50808 | 22405 | 900713    | R819688-02-0-AMEND04 | EPA - ETDOT                         |            |
| U S Environmental Protection Agency: |        |        |       |           | Financial Manager:   | J R Mihelcic                        | 7,494.70   |
| 66.501                               | E24740 | R50809 | 22555 | 900713    | R819688-02-0-AMEND04 | EPA - ETDOT                         |            |
| U S Environmental Protection Agency: |        |        |       |           | Financial Manager:   | A S Mayer                           | 6,175.56   |
| 66.501                               | E24741 | R50810 | 22405 | 900713    | R819688-02-0-AMEND04 | EPA-Env Consr Constructability Tool |            |
| U S Environmental Protection Agency: |        |        |       |           | Financial Manager:   | R M Patty                           | 61,668.45  |
| 66.501                               | E24742 | R50811 | 22605 | 900713    | R819688-02-0-AMEND04 | EPA-ECM Process Selection-Automobil |            |
| U S Environmental Protection Agency: |        |        |       |           | Financial Manager:   | W W Olson                           | 4,513.81   |
| 66.501                               | E24743 | R50812 | 22205 | 900713    | R819688-02-0-AMEND04 | EPA-Reactive Chem Screening Tool    |            |
| U S Environmental Protection Agency: |        |        |       |           | Financial Manager:   | D A Crowl                           | 3,184.92   |
| 66.501                               | E24744 | R50813 | 22205 | 900713    | R819688-02-0-AMEND04 | EPA-Process Safety/Risk Eval Tool   |            |
| U S Environmental Protection Agency: |        |        |       |           | Financial Manager:   | D A Crowl                           | 2,009.69   |
| 66.501                               | E24745 | R50815 | 22405 | 900713    | R819688-02-0-AMEND04 | EPA - CPAS Core Activities          |            |
| U S Environmental Protection Agency: |        |        |       |           | Financial Manager:   | J R Baker                           | 35,466.92  |
| 66.501                               | E24747 | R50816 | 22405 | 900713    | R819688-02-0-AMEND04 | EPA-Organic Recovery ADSORP/DIST    |            |
| U S Environmental Protection Agency: |        |        |       |           | Financial Manager:   | J C Crittenden                      | 18,178.54  |
| 66.501                               | E24748 | R50817 | 22205 | 900713    | R819688-02-0-AMEND04 | EPA - EPRAT                         |            |
| U S Environmental Protection Agency: |        |        |       |           | Financial Manager:   | D R Shonnard                        | 3,464.02   |
| 66.501                               | E24749 | R50818 | 22205 | 900713    | R819688-02-0-AMEND04 | EPA-CPAS Chemical Properties Tool   |            |
| U S Environmental Protection Agency: |        |        |       |           | Financial Manager:   | T N Rogers                          | 66,170.22  |
| 66.501                               | E24750 | R50823 | 22205 | 900713    | R819688-02-0-AMEND04 | EPA-Design Options Ranking Tool     |            |
| U S Environmental Protection Agency: |        |        |       |           | Financial Manager:   | B A Barna                           | 27,462.29  |
| 66.501                               | E24751 | R50826 | 22405 | 900713    | R819688-02-0-AMEND04 | EPA-P2 & Remediation w/Photocat Ox  |            |
| U S Environmental Protection Agency: |        |        |       |           | Financial Manager:   | J C Crittenden                      | 29,116.55  |

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|-------------------------------------|--------|--------|-------|-----------|----------------------|--|--------------|
| 66.501                              | E24752 | R50828 | 22555 | 900713    | R819688-02-0-AMEND04 | EPA - EFRAT<br>Financial Manager: A S Mayer                          | 7,180.71     |
| U S Enviromental Protection Agency: |        |        |       |           |                      |  |              |
| 66.501                              | E24753 | R50829 | 22405 | 900713    | R819688-02-0-AMEND04 | EPA - EFRAT<br>Financial Manager: K G Paterson                       | 4,900.41     |
| U S Enviromental Protection Agency: |        |        |       |           |                      |  |              |
| 66.501                              | E24754 | R50830 | 22405 | 900713    | R819688-02-0-AMEND04 | EPA - EFRAT<br>Financial Manager: M T Auer                           | 2,477.08     |
| U S Enviromental Protection Agency: |        |        |       |           |                      |  |              |
| 66.501                              | E24755 | R50854 | 22405 | 950627    | CR824506-01-0-AMD003 | EPA - P2SCIPS<br>Financial Manager: P P Radecki                      | 23,919.18    |
| U S Enviromental Protection Agency: |        |        |       |           |                      |  |              |
| 66.501                              | E24783 | R50890 | 22205 | 950627    | CR824506-01-0-AMD003 | EPA - P2SCIPS<br>Financial Manager: T N Rogers                       | 28,694.22    |
| U S Enviromental Protection Agency: |        |        |       |           |                      |  |              |
| 66.501                              | E24784 | R50891 | 22205 | 950627    | CR824506-01-0-AMD003 | EPA - P2SCIPS<br>Financial Manager: D R Shonnard                     | 22,137.42    |
| U S Enviromental Protection Agency: |        |        |       |           |                      |  |              |
| 66.501                              | E24786 | R50895 | 22205 | 950627    | CR824506-01-0-AMD003 | EPA - P2SCIPS<br>Financial Manager: D A Crowl                        | 18,296.88    |
| U S Enviromental Protection Agency: |        |        |       |           |                      |  |              |
|                                     |        |        |       |           |                      |  | 1,316,421.97 |
| TOTAL FOR CFDA# 66.501              |        |        |       |           |                      |  | 1,316,421.97 |
| U S Enviromental Protection Agency: |        |        |       |           |                      |  |              |
| 66.504                              | E24758 | R50855 | 22205 | 940326    | CR823226-01-0        | EPA-Predict Chem Parameters Computr<br>Financial Manager: T N Rogers | 25,565.01    |
| U S Enviromental Protection Agency: |        |        |       |           |                      |  |              |
| 66.504                              | E24793 | R50930 | 22605 | 960902    | R 825345-01-0        | EPA-Environ Conscious Design & Mfg<br>Financial Manager: W W Olson   | 20,997.18    |
| U S Enviromental Protection Agency: |        |        |       |           |                      |  |              |
| 66.504                              | E24794 | R50932 | 22555 | 960241    | R 825405-01-0        | EPA-Investigation of Mass Transfer<br>Financial Manager: A S Mayer   | 53,288.47    |
| U S Enviromental Protection Agency: |        |        |       |           |                      |  |              |
| 66.504                              | E28522 | R40651 | 22405 | 960552    | P432241              | UNIVE-Soil Anal VOCs & SVOCs Hill A<br>Financial Manager: D L Perram | 5,626.00     |
| U S Enviromental Prot Agcy Fed Pass |        |        |       |           |                      |  |              |
| 66.504                              | E28526 | R40650 | 22405 | 960553    | 960553               | UNIVE-Soil Analysis VOCs & SVOCs H1<br>Financial Manager: D L Perram | 7,708.00     |
| U S Enviromental Prot Agcy Fed Pass |        |        |       |           |                      |  |              |
| 66.504                              | E28537 | R40644 | 22405 | 930617    | SUB #1995-18         | OKLA U./EPA-Extracting Contaminants<br>Financial Manager: D L Perram | 30,029.00    |
| U S Enviromental Prot Agcy Fed Pass |        |        |       |           |                      |  |              |

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| 66.504                              | E28548 | R40677 | 22405 | 960552P2  | K321102              | UNIVE-Arizona Soil Analysis VOCS & D L Perram        | 4,539.02   |
| U S Enviromental Prot Agcy Fed Pass |        |        |       |           |                      |  |            |
| 66.504                              | E28558 | R40641 | 22405 | 960538    | A01247               | UNIVE-VOV/SVOC Analysis Soil Sample D L Perram       | 34,827.81  |
| U S Enviromental Prot Agcy Fed Pass |        |        |       |           |                      |  |            |
| 66.504                              | E28591 | R40602 | 22405 | 930617    | SUB #1995-18         | OKLA U./EPA-Extracting Contaminants N J Hutzler      | 2,937.90   |
| U S Enviromental Prot Agcy Fed Pass |        |        |       |           |                      |  |            |
| 66.504                              | E28592 | R40603 | 22555 | 930617    | SUB #1995-18         | OKLA U./EPA-Extracting Contaminants J S Gierke       | 19,023.02  |
| U S Enviromental Prot Agcy Fed Pass |        |        |       |           |                      |  |            |
| 66.504                              | E28618 | R40618 | 22005 | 930617    | SUB #1995-18         | OKLA U./EPA-Extracting Contaminants N J Hutzler      | 18,234.68  |
| U S Enviromental Prot Agcy Fed Pass |        |        |       |           |                      |  |            |
|                                     |        |        |       |           |                      |  | 222,776.09 |
| TOTAL FOR CFDA# 66.504              |        |        |       |           |                      |  | 222,776.09 |
| U S Enviromental Protection Agency: |        |        |       |           |                      |  |            |
| 66.505                              | E24735 | R10657 | 22705 | 940422    | CR822993-01-0 AMD01  | US EPA-Removal Toxins From Sediment S K Kawatra      | 10,706.13  |
| U S Enviromental Protection Agency: |        |        |       |           |                      |  |            |
|                                     |        |        |       |           |                      |  | 10,706.13  |
| TOTAL FOR CFDA# 66.505              |        |        |       |           |                      |  | 10,706.13  |
| U S Enviromental Protection Agency: |        |        |       |           |                      |  |            |
| 66.951                              | E24792 | R50916 | 22405 | 951212    | NE985254-01-0        | EPA-Watershed Education Program J P Schumaker-Chadde | 25,011.20  |
| U S Enviromental Protection Agency: |        |        |       |           |                      |  |            |
|                                     |        |        |       |           |                      |  | 25,011.20  |
| TOTAL FOR CFDA# 66.951              |        |        |       |           |                      |  | 25,011.20  |
| U S Dept of Energy:                 |        |        |       |           |                      |  |            |
| 81.049                              | E21632 | R50511 | 22705 | 861116A1  | DEFG02-87ER45315A009 | DOE-Gradients Tempstrain Bound Migr M R Plichta      | 6,050.48   |
| U S Dept of Energy:                 |        |        |       |           |                      |  |            |

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| 81.049<br>U S Dept of Energy:               | E21661 | R50686 | 24605 | 911034    | DEFG02-92ER14282-A05<br>Financial Manager: | DOE-Struc Constraints/Metal Atoms &<br>D R Beck     | 52,718.64  |
| 81.049<br>U S Dept of Energy:               | E21666 | R50719 | 22705 | 861116A1  | DEFG02-87ER45315A009<br>Financial Manager: | DOE-Boundary Stability Conditions<br>S A Hackney    | 1,250.81-  |
| 81.049<br>U S Dept of Energy:               | E21668 | R50721 | 22705 | 861116A1  | DEFG02-87ER45315A009<br>Financial Manager: | DOE-Boundary Stability Conditions<br>J K Lee        | 94.31      |
| 81.049<br>U S Dept of Energy:               | E21671 | R50820 | 22705 | 861116A1  | DEFG02-87ER45315A009<br>Financial Manager: | DOE-GRADIENTS DIFFUSION BOUNDS MIGR<br>S A Hackney  | 1,568.53   |
| 81.049<br>U S Dept of Energy:               | E21672 | R50821 | 22705 | 861116A1  | DEFG02-87ER45315A009<br>Financial Manager: | DOE-GRADIENTS DIFFUSION BOUNDS MIGR<br>M R Plichta  | 3,775.67   |
| 81.049<br>U S Dept of Energy:               | E21673 | R50822 | 22705 | 861116A1  | DEFG02-87ER45315A009<br>Financial Manager: | DOE-GRADIENTS DIFFUSION BOUNDS MIGR<br>J K Lee      | 13,526.59  |
| 81.049<br>U S Dept of Energy:               | E21674 | R50842 | 23005 | 950413    | DE-FG02-95ER62125-A3<br>Financial Manager: | USENE-Forest Atmosphere Carbon Trsf<br>D F Karnosky | 326,116.70 |
| 81.049<br>U S Dept of Energy Fed Pass Thru: | E25365 | R40640 | 23005 | 940236P2  | OR22072-27-04<br>Financial Manager:        | CPBRI-Genetic Eng Superior Aspnes<br>D F Karnosky   | 32,934.44  |
| 81.049<br>U S Dept of Energy Fed Pass Thru: | E25380 | R40676 | 23805 | 960222    | OR22072-55 Amd 1<br>Financial Manager:     | CPBRI-Transgenic Aspen w/Altered Li<br>V L Chiang   | 18,571.81  |
| 81.049<br>U S Dept of Energy Fed Pass Thru: | E25382 | R40675 | 24105 | 960222    | OR22072-55 Amd 1<br>Financial Manager:     | CPBRI-Transgenic Aspen w/Altered Li<br>G K Podila   | 1,619.72   |
| 81.049<br>U S Dept of Energy Fed Pass Thru: | E25386 | R40596 | 23005 | 940236P2  | OR22072-27-04<br>Financial Manager:        | CPBRI-Devel Male-Sterile Clones Gen<br>D F Karnosky | 1,013.71   |
| 81.049<br>U S Dept of Energy Fed Pass Thru: | E25394 | R80559 | 24105 | 930229    | OR22072-14-AMD#01<br>Financial Manager:    | CPBRI-Transgenic Aspen/Alfalfa RNA<br>G K Podila    | 996.94     |
| 81.049<br>U S Dept of Energy Fed Pass Thru: | E25395 | R80560 | 23805 | 930229    | OR22072-14-AMD#01<br>Financial Manager:    | CPBRI-Transgenic Aspen/Alfalfa RNA<br>V L Chiang    | 173.78     |
| 81.049<br>U S Dept of Energy Fed Pass Thru: | E25396 | R80561 | 23005 | 930229    | OR22072-14-AMD#01<br>Financial Manager:    | CPBRI-Transgenic Aspen/Alfalfa RNA<br>D F Karnosky  | 1,624.62-  |
| 81.049<br>U S Dept of Energy Fed Pass Thru: | E28616 | R80585 | 23007 | 940222P4  | H85665-AMD002<br>Financial Manager:        | UNIVE-ADV ACCT Atmospheric CO2<br>K S Pregitzer     | 79,750.15  |

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MICHIGAN TECHNOLOGICAL UNIVERSITY  
Research - Summary Expense by CFDA#  
From 07/01/96 to 06/30/97

| CFDA#                             | Index  | Fund   | Orgn  | Proposal# | Contract #           | Fund Title  | Amount     |
|-----------------------------------|--------|--------|-------|-----------|----------------------|---|------------|
| 81.049                            | E28635 | R80541 | 23005 | 940223    | V51573-MOD#02        | MICHI-Flux Carbon between Plants &<br>K S Pregitzer | 69,299.58  |
| U S Dept of Energy Fed Pass Thru: |        |        |       |           |                      |   |            |
| 81.049                            | E33948 | S90071 | 22705 | 861116A1  | DEFG02-87ER45315A009 | DOE - Boundary Stability Fellowship<br>S A Hackney  | 2,116.66   |
| U S Dept of Energy:               |        |        |       |           |                      |   |            |
|                                   |        |        |       |           |                      |   | 607,452.28 |
| TOTAL FOR CFDA# 81.049            |        |        |       |           |                      |   | 607,452.28 |
| U S Dept of Energy:               |        |        |       |           |                      |   |            |
| 81.078                            | E21678 | R50903 | 23805 | 960345    | DE-FC07-96ID13440-A3 | USENE-Phys/Chem Biofiltration Techn<br>G D McGinnis | 155,280.16 |
| U S Dept of Energy:               |        |        |       |           |                      |   |            |
| 81.078                            | E21679 | R50904 | 24105 | 960345    | DE-FC07-96ID13440-A3 | USENE-Phys/Chem Biofiltration Techn<br>S T Bagley   | 36,286.21  |
| U S Dept of Energy:               |        |        |       |           |                      |   |            |
|                                   |        |        |       |           |                      |   | 191,566.37 |
| TOTAL FOR CFDA# 81.078            |        |        |       |           |                      |   | 191,566.37 |
| U S Dept of Energy:               |        |        |       |           |                      |   |            |
| 81.086                            | E21675 | R50845 | 28305 | 950633    | DE-FG48-95R810543    | USENE-Aluminum Composite Shapes<br>M G McKimpson    | 35.48-     |
| U S Dept of Energy:               |        |        |       |           |                      |   |            |
|                                   |        |        |       |           |                      |   | 35.48-     |
| TOTAL FOR CFDA# 81.086            |        |        |       |           |                      |   | 35.48-     |
| U S Dept of Energy:               |        |        |       |           |                      |   |            |
| 81.087                            | E21659 | R50664 | 22705 | 930138    | DE-FG22-93PC93214-M2 | USENE-Separate Flue-Gas Scrubber Sl<br>S K Kawatra  | 78,531.03  |
| U S Dept of Energy:               |        |        |       |           |                      |   |            |
|                                   |        |        |       |           |                      |   | 78,531.03  |
| TOTAL FOR CFDA# 81.087            |        |        |       |           |                      |   | 78,531.03  |

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MICHIGAN TECHNOLOGICAL UNIVERSITY  
Research - Summary Expense by CFDA#  
From 07/01/96 to 06/30/97

| CFDA#                              | Index  | Fund   | Orgn  | Proposal# | Contract #           | Fund Title                          | Amount       |
|------------------------------------|--------|--------|-------|-----------|----------------------|-------------------------------------|--------------|
| U S Dept of Energy:                |        |        |       |           |                      |                                     |              |
| 81.089                             | E21670 | R10653 | 28305 | 930730    | DE-FC21-94MC31174/M4 | USENE-Utiliz. Low Nox Coal Combust. |              |
| U S Dept of Energy:                |        |        |       |           | Financial Manager:   | J Hwang                             | 121,145.46   |
| 81.089                             | E33973 | S90086 | 28305 | 930730    | DE-FC21-94MC31174/M4 | MTU/USDOE - Chuanfu Xiao Fellowship |              |
| U S Dept of Energy:                |        |        |       |           | Financial Manager:   | J Hwang                             | 15,407.96    |
|                                    |        |        |       |           |                      |                                     | 136,553.42   |
| TOTAL FOR CFDA# 81.089             |        |        |       |           |                      |                                     | 136,553.42   |
| National Archives & Records Admin: |        |        |       |           |                      |                                     |              |
| 89.003                             | E24905 | R50715 | 27005 | 930810    | 94-097               | NATIO ARCH-Quincy Mining Company Re |              |
| National Archives & Records Admin: |        |        |       |           | Financial Manager:   | T S Spence                          | 43,765.41    |
|                                    |        |        |       |           |                      |                                     | 43,765.41    |
| TOTAL FOR CFDA# 89.003             |        |        |       |           |                      |                                     | 43,765.41    |
| National Institute of Health:      |        |        |       |           |                      |                                     |              |
| 93.172                             | E22422 | R50907 | 24405 | 950916    | 1 R01 HG01502-01     | NIH-Parallel DNA Seq Assembly Prgm  |              |
| National Institute of Health:      |        |        |       |           | Financial Manager:   | X Huang                             | 59,992.06    |
|                                    |        |        |       |           |                      |                                     | 59,992.06    |
| TOTAL FOR CFDA# 93.172             |        |        |       |           |                      |                                     | 59,992.06    |
| GRAND TOTAL FOR CFDA's             |        |        |       |           |                      |                                     | 8,732,920.90 |

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MICHIGAN TECHNOLOGICAL UNIVERSITY  
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| CFDA#                               | Index  | Fund   | Orgn  | Proposal#          | Contract #           | Fund Title                          | Amount    |
|-------------------------------------|--------|--------|-------|--------------------|----------------------|-------------------------------------|-----------|
| Dept of Defense Fed Pass Thru:      |        |        |       |                    |                      |                                     |           |
| N/A                                 | E25262 | R40627 | 28605 | 950927A            | JE1285               | BOEING-Additional Tasks Prism Model |           |
| Dept of Defense Fed Pass Thru:      |        |        |       | Financial Manager: |                      | K R Johnson                         | 184.67    |
| N/A                                 | E27985 | R40667 | 22505 | 951220             | Q96895115            | ROCKW-Image Enhancement and Image D |           |
| Dept of Defense Fed Pass Thru:      |        |        |       | Financial Manager: |                      | T J Schulz                          | 13,285.12 |
| N/A                                 | E28807 | R40643 | 22505 | 951134             | SC-92C-04-29         | WJSCH-Multiframe Blind Deconvolutio |           |
| Dept of Defense Fed Pass Thru:      |        |        |       | Financial Manager: |                      | T J Schulz                          | 26,380.52 |
| N/A                                 | E28775 | R40563 | 28605 | 930618A            | PO 43353 Change #002 | Wagner Casting-Cadi Track Shoe Anal |           |
| Dept of Defense Fed Pass Thru:      |        |        |       | Financial Manager: |                      | G R Simula                          | 25,866.53 |
|                                     |        |        |       |                    |                      |                                     | 65,716.84 |
| Dept of Interior Fed Pass Thru:     |        |        |       |                    |                      |                                     |           |
| N/A                                 | E27016 | R40611 | 24805 | 931136             | S95-337              | MICHI-Historical-Era Mining Sites   |           |
| Dept of Interior Fed Pass Thru:     |        |        |       | Financial Manager: |                      | T S Reynolds                        | 443.00    |
|                                     |        |        |       |                    |                      |                                     | 443.00    |
| Dept of Transportation Fed Pass:    |        |        |       |                    |                      |                                     |           |
| N/A                                 | E28534 | R40631 | 22605 | 950515             | H85771               | UNIVE-Modeling Snowplow Truck Frame |           |
| Dept of Transportation Fed Pass:    |        |        |       | Financial Manager: |                      | W W Olson                           | 362.99-   |
| N/A                                 | E28535 | R40632 | 28605 | 950515             | H85771               | UNIVE-Modeling Snowplow Truck Frame |           |
| Dept of Transportation Fed Pass:    |        |        |       | Financial Manager: |                      | M D Osborne                         | 1,231.87  |
|                                     |        |        |       |                    |                      |                                     | 868.88    |
| Federal Highway Admin Fed Pass Thru |        |        |       |                    |                      |                                     |           |
| N/A                                 | E27106 | R40668 | 22405 | 961037             | Job # 40659          | MITRA - MDOT-CD 1996                |           |
| Federal Highway Admin Fed Pass Thru |        |        |       | Financial Manager: |                      | T L McNinch                         | 17,722.00 |
| N/A                                 | E27103 | R40666 | 22405 | 961007             | Project #39078       | MITRA-Traffic Records               |           |
| Federal Highway Admin Fed Pass thru |        |        |       | Financial Manager: |                      | D A Calomeni                        | 31,500.00 |
| N/A                                 | E27102 | R40665 | 22405 | 961006             | Job # 41179          | MITRA-Video Tape Production 96/97   |           |
| Federal Highway Admin Fed Pass thru |        |        |       | Financial Manager: |                      | D A Calomeni                        | 58,627.58 |

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MICHIGAN TECHNOLOGICAL UNIVERSITY  
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| CFDA#                               | Index  | Fund   | Orgn  | Proposal#          | Contract #           | Fund Title                          | Amount     |
|-------------------------------------|--------|--------|-------|--------------------|----------------------|-------------------------------------|------------|
| N/A                                 | E27101 | R40664 | 22405 | 960722             | 40617C               | MITRA-MALI Crash Location Software  |            |
| Federal Highway Admin Fed Pass thru |        |        |       | Financial Manager: | D A Calomeni         |                                     | 64,199.73  |
|                                     |        |        |       |                    |                      |                                     | 172,049.31 |
| NASA Fed Pass Thru:                 |        |        |       |                    |                      |                                     |            |
| N/A                                 | E25226 | R40559 | 28705 | 920907A            | 37287(2166)-2176-M06 | BATTELLE-NASA GLITEC AFFILIATION    |            |
| NASA Fed Pass Thru:                 |        |        |       | Financial Manager: | E J White            |                                     | 5,053.23   |
| N/A                                 | E26451 | R40637 | 24605 | 960336             | 083495 TB            | HUGHE-Hubble Tele Guidance Sensor   |            |
| NASA Fed Pass Thru:                 |        |        |       | Financial Manager: | C Ftacilas           |                                     | 8,889.04   |
| N/A                                 | E26453 | R40663 | 24605 | 960821             | 087791 TB            | HUGHE-Keck Coronagraph Study        |            |
| NASA Fed Pass Thru:                 |        |        |       | Financial Manager: | C Ftacilas           |                                     | 7,500.00   |
| N/A                                 | E26557 | R40636 | 22405 | 940431P4           | NAS8-40369-3460 AD 3 | IONEL-Space Station Multifilt PH II |            |
| NASA Fed Pass Thru:                 |        |        |       | Financial Manager: | D W Hand             |                                     | 164,128.90 |
| N/A                                 | E26560 | R40638 | 22405 | 960237             | NAS8-40369-3523 Mod4 | IONEL-Space Station Water Processor |            |
| NASA Fed Pass Thru:                 |        |        |       | Financial Manager: | D W Hand             |                                     | 92,685.54  |
| N/A                                 | E26562 | R40679 | 22405 | 970316             | PO# 4035             | IONEL-Analysis NASA Flight Samples  |            |
| NASA Fed Pass Thru:                 |        |        |       | Financial Manager: | D L Perram           |                                     | 3,876.26   |
| N/A                                 | E25320 | R40590 | 24605 | 940303             | #000960081           | JETPR-Surf. Conductivity Discharge  |            |
| NASA Fed Pass Thru:                 |        |        |       | Financial Manager: | J F Cordaro          |                                     | 75.99      |
| N/A                                 | E26658 | R40653 | 24605 | 960719             | 960697               | JETPR-IMAS SAGNAC Preliminary Feasi |            |
| NASA Fed Pass Thru:                 |        |        |       | Financial Manager: | J B Rafert           |                                     | 20,000.00  |
| N/A                                 | E26942 | R40655 | 22405 | 960729             | AD8946               | MCDON-Manufacture Product Database  |            |
| NASA Fed Pass Thru:                 |        |        |       | Financial Manager: | J R Baker            |                                     | 13,826.00  |
| N/A                                 | E26943 | R40656 | 22205 | 960729             | AD8946               | MCDON-Manufacture Product Database  |            |
| NASA Fed Pass Thru:                 |        |        |       | Financial Manager: | T N Rogers           |                                     | 6,786.00   |
| N/A                                 | E26954 | R40681 | 22405 | 960729P2           | 630254               | MCDON-Database Support Enviromental |            |
| NASA Fed Pass Thru:                 |        |        |       | Financial Manager: | J R Baker            |                                     | 18,861.02  |
| N/A                                 | E26955 | R40682 | 22205 | 960729P2           | 630254               | MCDON-Database Support Enviromental |            |
| NASA Fed Pass Thru:                 |        |        |       | Financial Manager: | T N Rogers           |                                     | 30,594.37  |
| N/A                                 | E26956 | R40658 | 22405 | 960730             | AD8945               | MCDON-Enviromental & Health Indices |            |
| NASA Fed Pass Thru:                 |        |        |       | Financial Manager: | J R Baker            |                                     | 5,358.00   |

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MICHIGAN TECHNOLOGICAL UNIVERSITY  
Pass Through Grants and Contracts  
Expense Summary  
From 07/01/96 to 06/30/97

| CFDA#                             | Index  | Fund   | Orgn  | Proposal#          | Contract #           | Fund Title                          | Amount     |
|-----------------------------------|--------|--------|-------|--------------------|----------------------|-------------------------------------|------------|
| N/A                               | E26957 | R40659 | 22205 | 960730             | AD8945               | MCDON-Enviromental & Health Indices |            |
| NASA Fed Pass Thru:               |        |        |       | Financial Manager: | T N Rogers           |                                     | 13,118.0   |
| N/A                               | E28524 | R40648 | 22555 | 920406A            | CH-1107 Mod 6        | UNIV HAWAII-VOLCANIC HAZARD & INPUT |            |
| NASA Fed Pass Thru:               |        |        |       | Financial Manager: | W I Rose             |                                     | 43,605.1   |
| N/A                               | E28636 | R40610 | 22555 | 920406A            | CH-1107 Mod 6        | UNIV HAWAII-VOLCANIC HAZARD & INPUT |            |
| NASA Fed Pass Thru:               |        |        |       | Financial Manager: | W I Rose             |                                     | 22,060.9   |
| N/A                               | E28569 | R40617 | 22555 | 950701             | G79827               | UofMI-Seed Grant Mich Space Consort |            |
| NASA Fed Pass Thru:               |        |        |       | Financial Manager: | A N Pilant           |                                     | 378.3      |
| N/A                               | E28704 | R40647 | 22205 | 960534             | 960534               | UNIVE-Microtubule Strain on Protein |            |
| NASA Fed Pass Thru:               |        |        |       | Financial Manager: | D J Odds             |                                     | 8,000.00   |
|                                   |        |        |       |                    |                      |                                     | 464,644.80 |
| NOAA Fed Pass Thru:               |        |        |       |                    |                      |                                     |            |
| N/A                               | E24111 | R40599 | 22555 | 941049             | UCAR S95-54356/MO195 | UCAR/NOAA-COMET Volcanic Cloud Mvmt |            |
| NOAA Fed Pass Thru:               |        |        |       | Financial Manager: | W I Rose             |                                     | 3,861.40   |
|                                   |        |        |       |                    |                      |                                     | 3,861.40   |
| U S Air Force Fed Pass Thru:      |        |        |       |                    |                      |                                     |            |
| N/A                               | E26728 | R40649 | 24605 | 960605             | AF95033.5/KC94-1024  | KESTR-Kestrel Mighty Sat II.1       |            |
| U S Air Force Fed Pass Thru:      |        |        |       | Financial Manager: | J B Rafert           |                                     | 1,507.10   |
| N/A                               | E28570 | R40685 | 22505 | 970424             | 8-91051              | UNVIE-Multiframe Blind Deconvolutio |            |
| U S Air Force Fed Pass Thru:      |        |        |       | Financial Manager: | T J Schulz           |                                     | 1,756.00   |
|                                   |        |        |       |                    |                      |                                     | 3,263.14   |
| U S Dept of Agriculture Fed Pass: |        |        |       |                    |                      |                                     |            |
| N/A                               | E28253 | R40669 | 28605 | 961223             | Check #034785        | SOMER/USDA-Impact Snowmobile Trail  |            |
| U S Dept of Agriculture Fed Pass: |        |        |       | Financial Manager: | R G Alger            |                                     | 8,749.10   |
|                                   |        |        |       |                    |                      |                                     | 8,749.10   |
| U S Dept of Energy Fed Pass Thru: |        |        |       |                    |                      |                                     |            |
| N/A                               | E25054 | R40662 | 22605 | 950717             | TC 057004 QA CO 2    | ALUMI-Develop Aluminum Sheet Stampi |            |
| U S Dept of Energy Fed Pass Thru: |        |        |       | Financial Manager: | K J Weinmann         |                                     | 126,323.22 |

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MICHIGAN TECHNOLOGICAL UNIVERSITY  
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| CFDA#                             | Index  | Fund   | Orgn  | Proposal#          | Contract #          | Fund Title                          | Amount     |
|-----------------------------------|--------|--------|-------|--------------------|---------------------|-------------------------------------|------------|
| N/A                               | E25212 | R40660 | 28305 | 960706             | 316708-A-A5         | BATTE-Utilization of Recycled & Unr |            |
| U S Dept of Energy Fed Pass Thru: |        |        |       | Financial Manager: | J Hwang             |                                     | 22,000.00  |
| N/A                               | E25494 | R40532 | 22555 | 920104             | P.O.#317350-AMD#01  | Columbial Univ Recovery Technolog   |            |
| U S Dept of Energy Fed Pass Thru: |        |        |       | Financial Manager: | J R Wood            |                                     | 0.00       |
| N/A                               | E26731 | R40646 | 24605 | 960615             | DOE96FG03.1         | KESTRAL-Hyperspectral STTR          |            |
| U S Dept of Energy Fed Pass Thru: |        |        |       | Financial Manager: | J B Rafert          |                                     | 5,769.86   |
| N/A                               | E26735 | R40678 | 28305 | 961118             | PL0031196 AN AMD 1  | KNOLL-Mechanic Alloying of Ne-Cr-W  |            |
| U S Dept of Energy Fed Pass Thru: |        |        |       | Financial Manager: | M G McKimpson       |                                     | 19,308.46  |
| N/A                               | E26834 | R40672 | 22705 | 961049             | K97-176340          | LMITC-Develop Non-Brittle Ceramic F |            |
| U S Dept of Energy Fed Pass Thru: |        |        |       | Financial Manager: | B J Pletka          |                                     | 8,874.99   |
| N/A                               | E26825 | R40619 | 23005 | 950419             | 19X-SV082V Mod 2    | Lockheed-Temp&CO2 Interactions Tree |            |
| U S Dept of Energy Fed Pass Thru: |        |        |       | Financial Manager: | K S Pregitzer       |                                     | 21,694.34  |
| N/A                               | E26832 | R40652 | 28305 | 960804             | 84X-LBL58/84X-LEM90 | LOCKHEED - HIP Processing           |            |
| U S Dept of Energy Fed Pass Thru: |        |        |       | Financial Manager: | M G McKimpson       |                                     | 1,470.00   |
| N/A                               | E26836 | R40683 | 23805 | 970218             | IWR-JP01-9702       | LOCKH-Determine Syringyl-Guaiacyl R |            |
| U S Dept of Energy Fed Pass Thru: |        |        |       | Financial Manager: | J L Popko           |                                     | 1,254.87   |
| N/A                               | E26874 | R40526 | 28705 | S00000053          | 19X-SF535V MOD 3    | Martin Marietta-Univ/Ind Brokering  |            |
| U S Dept of Energy Fed Pass Thru: |        |        |       | Financial Manager: | E J White           |                                     | 839.47     |
| N/A                               | E26881 | R40527 | 28705 | 921114A            | 19X-SM272V          | Martin Marietta-St Outreach Initiat |            |
| U S Dept of Energy Fed Pass Thru: |        |        |       | Financial Manager: | E J White           |                                     | 701.00     |
| N/A                               | E28166 | R40642 | 22555 | 960342             | AS-8956             | SANDIA-Near Wellbore Mechaics ACTI  |            |
| U S Dept of Energy Fed Pass Thru: |        |        |       | Financial Manager: | W D Pennington      |                                     | 20,685.82  |
| N/A                               | E28155 | R40661 | 22605 | 960903             | AU-3029             | SANDI-Vibration Control Research    |            |
| U S Dept of Energy Fed Pass Thru: |        |        |       | Financial Manager: | G G Parker          |                                     | 20,060.54  |
| N/A                               | E28533 | R40629 | 22605 | 940504A            | 953132401           | UNIV CHIC/Piston Heat Tnsfr Engine  |            |
| U S Dept of Energy Fed Pass Thru: |        |        |       | Financial Manager: | C L Anderson        |                                     | 22,893.31  |
| N/A                               | E28541 | R40670 | 22705 | 961052             | 963162402           | UNIVE-Structure Characterization of |            |
| U S Dept of Energy Fed Pass Thru: |        |        |       | Financial Manager: | S A Hackney         |                                     | 11,210.33  |
|                                   |        |        |       |                    |                     |                                     | -----      |
|                                   |        |        |       |                    |                     |                                     | 283,086.21 |

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MICHIGAN TECHNOLOGICAL UNIVERSITY  
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| CFDA#                               | Index  | Fund   | Orgn  | Proposal# | Contract #           | Fund Title                          | Amount       |
|-------------------------------------|--------|--------|-------|-----------|----------------------|-------------------------------------|--------------|
| -----                               |        |        |       |           |                      |                                     |              |
| U S Enviromental Prot Agcy Fed Pass |        |        |       |           |                      |                                     |              |
| N/A                                 | E28556 | R40612 | 22405 | 950425    | AGREEMENT 06/09/95   | UPSTA-Cannonsville Reservoir Water  |              |
| Financial Manager:                  |        |        |       |           |                      | M T Auer                            | 34,589.49    |
| -----                               |        |        |       |           |                      |                                     |              |
| N/A                                 | E28557 | R40613 | 24105 | 950441    | Agreement 06/09/96   | UPSTA-Cannonsville Reservoir Water  |              |
| Financial Manager:                  |        |        |       |           |                      | S T Bagley                          | 1,159.13     |
| -----                               |        |        |       |           |                      |                                     |              |
| N/A                                 | E28560 | R40684 | 22405 | 970519    | Memo Agrmnt 07/07/97 | UPSTA-Catskill/Delaware Modeling Sy |              |
| Financial Manager:                  |        |        |       |           |                      | M T Auer                            | 12,459.44    |
|                                     |        |        |       |           |                      |                                     | -----        |
|                                     |        |        |       |           |                      |                                     | 48,208.06    |
|                                     |        |        |       |           |                      |                                     |              |
| U S Navy Fed Pass Thru:             |        |        |       |           |                      |                                     |              |
| N/A                                 | E25818 | R40616 | 22505 | 940930    | 3499068C/ PO 349906  | ERIM-Heterodyne Array Imaging       |              |
| Financial Manager:                  |        |        |       |           |                      | T J Schulz                          | 4,321.80     |
|                                     |        |        |       |           |                      |                                     | -----        |
|                                     |        |        |       |           |                      |                                     | 4,321.80     |
|                                     |        |        |       |           |                      |                                     |              |
| U S Tank Automotive Command Fed Pas |        |        |       |           |                      |                                     |              |
| N/A                                 | E26264 | R40634 | 28605 | 951123    | WPG013469            | GENER-CAV Testing                   |              |
| Financial Manager:                  |        |        |       |           |                      | G R Simula                          | 28,326.00    |
| -----                               |        |        |       |           |                      |                                     |              |
| N/A                                 | E26445 | R40624 | 28605 | 951025    | S9-343321-SRR        | Hughes-GM MMC Track Shoe Program    |              |
| Financial Manager:                  |        |        |       |           |                      | G R Simula                          | 19,433.16    |
| -----                               |        |        |       |           |                      |                                     |              |
| N/A                                 | E28530 | R40623 | 28605 | 951007    | 509 00316            | United Def-Thermal Mod/Simul UDLF   |              |
| Financial Manager:                  |        |        |       |           |                      | K R Johnson                         | 46.40        |
|                                     |        |        |       |           |                      |                                     | -----        |
|                                     |        |        |       |           |                      |                                     | 47,805.56    |
|                                     |        |        |       |           |                      |                                     |              |
| Various Federal Depts Fed Pass Thru |        |        |       |           |                      |                                     |              |
| N/A                                 | E26274 | R40541 | 28505 | 930231    | AGRMT 09/07/94       | GLFC-Tropic Eco/Sea Lamprey Ammocet |              |
| Financial Manager:                  |        |        |       |           |                      | S H Bowen                           | 17,850.20    |
|                                     |        |        |       |           |                      |                                     | -----        |
|                                     |        |        |       |           |                      |                                     | 17,850.20    |
|                                     |        |        |       |           |                      |                                     | -----        |
| TOTAL FOR R4 FUNDS                  |        |        |       |           |                      |                                     | 1,120,868.37 |

The accompanying notes are an integral part of these financial statements.

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MICHIGAN TECHNOLOGICAL UNIVERSITY  
Pass Through Grants and Contracts  
Expense Summary  
From 07/01/96 to 06/30/97

| CFDA#                               | Index  | Fund   | Orgn  | Proposal# | Contract #          | Fund Title  | Amount     |
|-------------------------------------|--------|--------|-------|-----------|---------------------|---|------------|
| Federal Highway Admin Fed Pass Thru |        |        |       |           |                     |   |            |
| N/A                                 | E27015 | R80553 | 22405 | 860130J   | 38259,38260 & 38261 | Mich DOT-Local Tech Assistance Prgm<br>Financial Manager: B D Alkire  | 796.73-    |
| Federal Highway Admin Fed Pass Thru |        |        |       |           |                     |   |            |
| N/A                                 | E27023 | R80577 | 22405 | 860130K   | Job # 39677C        | MITRA - TTTC Video Tapes<br>Financial Manager: D A Calomeni           | 21,156.79  |
| Federal Highway Admin Fed Pass Thru |        |        |       |           |                     |   |            |
| N/A                                 | E27025 | R80578 | 22405 | 860130K   | Job # 40658 & 40659 | MITRA - TTTC Roadsoft<br>Financial Manager: D A Calomeni              | 268,748.74 |
| Federal Highway Admin Fed Pass Thru |        |        |       |           |                     |   |            |
| N/A                                 | E27026 | R80581 | 22405 | 961034P1  | 40617C              | MITRA-TTTC Mates 1996<br>Financial Manager: T L McNinch               | 31,433.90  |
| Federal Highway Admin Fed Pass Thru |        |        |       |           |                     |   |            |
| N/A                                 | E27027 | R80582 | 22405 | 860130P21 | 40656/40657/40659   | MITRA-TTTC LTAP/UTAP 1996<br>Financial Manager: B D Alkire            | 161,790.99 |
| Federal Highway Admin Fed Pass Thru |        |        |       |           |                     |   |            |
| N/A                                 | E27030 | R80584 | 22405 | 860130P18 | Job # 40656         | MITRA-LTAP News CD Add'l 95 Funding<br>Financial Manager: T L McNinch | 14,035.18  |
| Federal Highway Admin Fed Pass Thru |        |        |       |           |                     |   |            |
| N/A                                 | E27082 | R80607 | 22405 | 860130P23 | ADV ACCT            | MITRA-ADV ACCT Tportation Technolog<br>Financial Manager: B D Alkire  | 138,622.45 |
| Federal Highway Admin Fed Pass Thru |        |        |       |           |                     |   |            |
| N/A                                 | E27105 | R80605 | 22405 | 961053    | Job # 43563         | MITRA-1997 LTAP News CD<br>Financial Manager: T L McNinch             | 20,350.98  |
| Federal Highway Admin Fed Pass Thru |        |        |       |           |                     |   |            |
| N/A                                 | E27123 | R80615 | 22405 | 970348    | Job # 44196         | MITRA-MDOT CD MERL 1997<br>Financial Manager: T L McNinch             | 6,349.28   |
| Federal Highway Admin Fed Pass Thru |        |        |       |           |                     |   |            |
| N/A                                 | E27074 | R80604 | 22405 | 961012    | JOB# 44195          | MITRA - Roadsoft 1997<br>Financial Manager: D A Calomeni              | 121,660.67 |
| Federal Highway Admin Fed Pass Thru |        |        |       |           |                     |   |            |
| N/A                                 | E27079 | R80606 | 22405 | 961034P2  | Job No. 97701       | MITRA-1997 MDOT Research Record<br>Financial Manager: T L McNinch     | 18,908.84  |
| Federal Highway Admin Fed Pass Thru |        |        |       |           |                     |   |            |
| N/A                                 | E28574 | R80583 | 22405 | 950629    | H85787              | U of M-Concrete Properties Pavement<br>Financial Manager: G R Dewey   | 25,612.38  |
| Federal Highway Admin Fed Pass Thru |        |        |       |           |                     |   |            |
|                                     |        |        |       |           |                     |   | 827,873.47 |
| NASA Fed Pass Thru:                 |        |        |       |           |                     |   |            |
| N/A                                 | E28527 | R80589 | 22605 | 960524    | 960524              | UNIVE-High Strain Rate Deformation<br>Financial Manager: G Subhash    | 7,901.69   |
| NASA Fed Pass Thru:                 |        |        |       |           |                     |   |            |

The accompanying notes are an integral part of these financial statements.

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MICHIGAN TECHNOLOGICAL UNIVERSITY  
Pass Through Grants and Contracts  
Expense Summary  
From 07/01/96 to 06/30/97

| CFDA#                              | Index  | Fund   | Orgn  | Proposal# | Contract #           | Fund Title                          | Amount       |
|------------------------------------|--------|--------|-------|-----------|----------------------|-------------------------------------|--------------|
| N/A                                | E28480 | R80596 | 22305 | 960530    | 960530               | UNIVE-Space Grant Optical Propertie | 8,032.22     |
| NASA Fed Pass Thru:                |        |        |       |           |                      |                                     | -----        |
|                                    |        |        |       |           |                      |                                     | 15,933.91    |
|                                    |        |        |       |           |                      |                                     |              |
| U S Agency for International Devel |        |        |       |           |                      |                                     |              |
| N/A                                | E27520 | R80595 | 22605 | 960626    | Agmt of 06/28/96     | NRC-Cast Grant Host Dr Oleg Naimark | 3,462.00     |
| U S Agency for International Devel |        |        |       |           |                      |                                     | -----        |
| N/A                                | E27517 | R80574 | 22605 | 951010    | Gutkin Cast Grant    | NRC-Deformation Behavior Nanophase  | 3,245.00     |
| U S Agency for International Devel |        |        |       |           |                      |                                     | -----        |
|                                    |        |        |       |           |                      |                                     | 6,707.00     |
|                                    |        |        |       |           |                      |                                     |              |
| U S Air Force Fed Pass Thru:       |        |        |       |           |                      |                                     |              |
| N/A                                | E28364 | R80580 | 28305 | 921219P18 | Letter 11/28/95      | TASC-DRA Production Scale-UP 11/95  | 3,943.64     |
| U S Air Force Fed Pass Thru:       |        |        |       |           |                      |                                     | -----        |
| N/A                                | E28546 | R80603 | 22705 | 960224    | SA1541-22500PG Amd 1 | UNIVE-AFOSR URI High Cycle Fatigue  | 40,451.00    |
| U S Air Force Fed Pass Thru:       |        |        |       |           |                      |                                     | -----        |
|                                    |        |        |       |           |                      |                                     | 44,394.64    |
|                                    |        |        |       |           |                      |                                     |              |
| U S Dept of Agriculture Fed Pass:  |        |        |       |           |                      |                                     |              |
| N/A                                | E27133 | R80552 | 23005 | 940720    | 61-4829A             | MSU-Northern White Cedar Stand Dist | 3,803.50     |
| U S Dept of Agriculture Fed Pass:  |        |        |       |           |                      |                                     | -----        |
|                                    |        |        |       |           |                      |                                     | 3,803.50     |
| TOTAL FOR RS FUNDS                 |        |        |       |           |                      |                                     | -----        |
|                                    |        |        |       |           |                      |                                     | 898,712.52   |
| GRAND TOTAL                        |        |        |       |           |                      |                                     | -----        |
|                                    |        |        |       |           |                      |                                     | 2,019,580.89 |
|                                    |        |        |       |           |                      |                                     | =====        |

The accompanying notes are an integral part of these financial statements.

| CFDA#                           | Index  | Orgn   | Fund  | Proposal# | Contract #           | Fund Title  | Amount     |
|---------------------------------|--------|--------|-------|-----------|----------------------|---|------------|
| Federal Highway Administration: |        |        |       |           |                      |   |            |
| N/A                             | E24804 | R10553 | 22405 | 920913D   | DTFH61-93-X00001,M#5 | FWHA-Tech Trsf Amer Indian Tribal G<br>Financial Manager: B D Alkire  | 24,424.79  |
| Federal Highway Administration: |        |        |       |           |                      |   |            |
| N/A                             | E24806 | R10588 | 22405 | 920913D   | DTFH61-93-X00001,M#5 | FWHA-TECH TRSF AMER INDIAN TRIBAL G<br>Financial Manager: B D Alkire  | 30,644.32  |
| Federal Highway Administration: |        |        |       |           |                      |   |            |
| N/A                             | E24807 | R10662 | 22405 | 920913D   | DTFH61-93-X00001,M#5 | FWHA-Tech Trsf Amer Indian Tribal G<br>Financial Manager: B D Alkire  | 1,227.92-  |
| Federal Highway Administration: |        |        |       |           |                      |   |            |
| N/A                             | E24808 | R10694 | 22405 | 920913D   | DTFH61-93-X00001,M#5 | FWHA-TECH TRSF AMER INDIAN TRIBAL<br>Financial Manager: B D Alkire    | 78,538.92  |
| Federal Highway Administration: |        |        |       |           |                      |   |            |
| N/A                             | E24809 | R10724 | 22405 | 960720    | DTFH61-96-C-00073-M1 | FWHA-MtIs Related Distress Concrete<br>Financial Manager: T J Van Dam | 64,983.49  |
| Federal Highway Administration: |        |        |       |           |                      |   |            |
| N/A                             | E24810 | R10726 | 22405 | 920913-P5 | DTFH61-96-P-00717    | FWHA - Project Selection Panel<br>Financial Manager: B D Alkire       | 7,292.91   |
| Federal Highway Administration: |        |        |       |           |                      |   |            |
| N/A                             | E24811 | R10730 | 22405 | 920913D   | DTFH61-93-X00001,M#5 | FWHA-Tech Trsf Amer Indian Tribal<br>Financial Manager: B D Alkire    | 107,676.78 |
| Federal Highway Administration: |        |        |       |           |                      |   |            |
| N/A                             | E24815 | R10736 | 22405 | 970432    | DTFH61-97-P-00401    | FWHA-Project Selection Programming<br>Financial Manager: B D Alkire   | 6,758.89   |
| Federal Highway Administration: |        |        |       |           |                      |   |            |
| Total for                       |        |        |       |           |                      |   | 319,092.18 |
| NASA                            |        |        |       |           |                      |   |            |
| N/A                             | E24767 | R10543 | 22405 | 920606A   | NAG 2-820 SUPPL02    | NASA-Multi Filtration Unit Design<br>Financial Manager: D W Hand      | 7,977.27   |
| NASA                            |        |        |       |           |                      |   |            |
| N/A                             | E24771 | R50649 | 22555 | 921218    | NAG5-2324-SUP #2     | NASA-AVHRR & Toms Imagery of Volcan<br>Financial Manager: W I Rose    | 541.62     |
| NASA                            |        |        |       |           |                      |   |            |
| N/A                             | E24772 | R50658 | 28505 | 930201    | NGT-51024-SUPL#02    | NASA-Remote Sensing Zebra Mussel Gz<br>Financial Manager: W C Kerfoot | 3,783.58   |
| NASA                            |        |        |       |           |                      |   |            |
| N/A                             | E24773 | R50665 | 22555 | 930331    | NGT-30174/Supl#3-Yr3 | NASA-Fate of Silicate Particles/Atm<br>Financial Manager: W I Rose    | 3,607.52   |
| NASA                            |        |        |       |           |                      |   |            |
| N/A                             | E24778 | R50777 | 22705 | 911110    | NAG 3-1659 Supp #01  | NASA-Convec/Partic Alloy Solidiftn<br>Financial Manager: A Hellowell  | 7,530.78   |
| NASA                            |        |        |       |           |                      |   |            |
| N/A                             | E24780 | R50803 | 24605 | 920523    | NAGW-4566            | NASA-CIA CO2 Pairs/Venus Atmosphere<br>Financial Manager: A Borysow   | 1,039.40   |
| NASA                            |        |        |       |           |                      |   |            |
| N/A                             | E24781 | R50853 | 22555 | 940418    | NAGW-4807            | USNAS-Volcanic Activity-Sulfur Diox<br>Financial Manager: G J Bluth   | 413.92-    |
| NASA                            |        |        |       |           |                      |   |            |

| CFDA#                  | Index | Orgn   | Fund   | Proposal# | Contract # | Fund Title   | Amount     |
|------------------------|-------|--------|--------|-----------|------------|--|------------|
| NASA                   | N/A   | E24782 | R50878 | 24605     | 950401     | NAGW-4989<br>Financial Manager:<br>NASA-L Superior Ice Field Measurmnt<br>A N Pilant             | 54,363.39  |
| NASA                   | N/A   | E24785 | R50893 | 24605     | 920523     | NAGW-4566 Suppl<br>Financial Manager:<br>NASA-CIA CO2 Pairs/Venus Atmosphere<br>A Borysow        | 30,729.01  |
| NASA                   | N/A   | E24787 | R50899 | 24605     | 960612-13  | NAGS-3279<br>Financial Manager:<br>NASA-Gravitational Lensing Effects<br>R J Nemiroff            | 22,672.26  |
| NASA                   | N/A   | E24788 | R50900 | 24605     | 960612-13  | NAGS-3279<br>Financial Manager:<br>NASA - GRB Pulses Change w/Energy<br>R J Nemiroff             | 9,186.81   |
| NASA                   | N/A   | E24789 | R50905 | 22555     | 951003     | NAG 5-3260<br>Financial Manager:<br>NASA-Comparison of TOMS & OCTS Data<br>G J Bluth             | 100,225.58 |
| NASA                   | N/A   | E24791 | R50914 | 22555     | 940418     | NAGW-5186<br>Financial Manager:<br>USNAS-Volcanic Activity-Sulfur Diox<br>G J Bluth              | 21,961.77  |
| NASA                   | N/A   | E24795 | R50940 | 28605     | 960915     | NAG 2-1095<br>Financial Manager:<br>USNAS-Research Helicopter Acoustics<br>J C Rogers            | 9,620.66   |
| NASA                   | N/A   | E24796 | R50943 | 22405     | 960923     | NAG 9-918<br>Financial Manager:<br>USNAS-UV Photocatalytic Oxidation<br>D W Hand                 | 7,966.62   |
| NASA                   | N/A   | E24797 | R50971 | 24605     | 960609     | NAGS-3689<br>Financial Manager:<br>NASA-Cool Stars Atmospheric Models<br>A Borysow               | 2,249.60   |
| Total for              |       |        |        |           |            |  | 283,041.95 |
| National Park Service: |       |        |        |           |            |  |            |
| National Park Service: | N/A   | E22715 | R10688 | 24105     | 910820C    | 0479-95-01<br>Financial Manager:<br>NPS-Fringe Boreal Watershed Ecosyst<br>J H Adler             | 14,590.10  |
| National Park Service: | N/A   | E22717 | R10708 | 24107     | 960540     | 1443PX614094151<br>Financial Manager:<br>USPAR-Waters Monitoring Protocol<br>W C Kerfoot         | 6,244.11   |
| National Park Service: | N/A   | E22718 | R50917 | 23005     | 960912     | 1443CA631096001<br>Financial Manager:<br>USPAR-Geographic Information System<br>M D Byslop       | 22,890.51  |
| Total for              |       |        |        |           |            |  | 43,724.72  |
| U S Air Force          |       |        |        |           |            |  |            |
| U S Air Force          | N/A   | E21144 | R10696 | 28605     | 951109     | F19628-96-K-0001,P01<br>Financial Manager:<br>USAIR-Target Bld Capability ACT/EOS<br>K R Johnson | 19.15      |
| U S Air Force          | N/A   | E21153 | R10739 | 22605     | 970529     | IPA Executed 6/10/97<br>Financial Manager:<br>USAIR-IPA Assignment to Brooks AFB<br>D A Nelson   | 8,865.50   |
| Total for              |       |        |        |           |            |  | 8,884.65   |

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MICHIGAN TECHNOLOGICAL UNIVERSITY  
Summary Expense by Agency  
From 07/01/96 to 06/30/97

| CFDA#                | Index  | Orgn   | Fund  | Proposal# | Contract #           | Fund Title                          | Amount     |
|----------------------|--------|--------|-------|-----------|----------------------|-------------------------------------|------------|
| U S Army             |        |        |       |           |                      |                                     |            |
| N/A                  | E20486 | R10655 | 28605 | 940704    | DAAE07-94-C-R123/P10 | TACOM-Track/Suspension Surge Contr. |            |
| U S Army             |        |        |       |           | Financial Manager:   | M D Osborne                         | 17,694.40  |
| N/A                  | E20487 | R10656 | 28605 | 940719    | DAAE07-93-G-R001/509 | TACOM-Acoustic Noise Cancellation   |            |
| U S Army             |        |        |       |           | Financial Manager:   | J C Rogers                          | 114,810.55 |
| N/A                  | E20489 | R10699 | 28605 | 940704    | DAAE07-94-C-R123/P10 | TACOM-Track/Suspension Surge Contr. |            |
| U S Army             |        |        |       |           | Financial Manager:   | M D Osborne                         | 247,017.11 |
| N/A                  | E20490 | R10700 | 28605 | 940704    | DAAE07-94-C-R123/P10 | TACOM-Track/Suspension Surge Contr. |            |
| U S Army             |        |        |       |           | Financial Manager:   | M D Osborne                         | 189,885.89 |
| N/A                  | E20491 | R10701 | 28605 | 940704    | DAAE07-94-C-R123/P10 | TACOM-Track/Suspension Surge Contr. |            |
| U S Army             |        |        |       |           | Financial Manager:   | M D Osborne                         | 73,181.41  |
| N/A                  | E20492 | R10705 | 28605 | 940704    | DAAE07-94-C-R123/P10 | TACOM-Track/Suspension Surge Contr. |            |
| U S Army             |        |        |       |           | Financial Manager:   | M D Osborne                         | 164,711.99 |
| N/A                  | E20493 | R10720 | 28605 | 940704    | DAAE07-94-C-R123/P10 | TACOM-Track/Suspension Surge Contr. |            |
| U S Army             |        |        |       |           | Financial Manager:   | M D Osborne                         | 38,664.22  |
| N/A                  | E20495 | R10729 | 28605 | 940704    | DAAE07-94-C-R123/P10 | TACOM-Track/Suspension Surge Contr. |            |
| U S Army             |        |        |       |           | Financial Manager:   | M D Osborne                         | 15,360.50  |
| N/A                  | E20589 | R10666 | 22705 | 940811    | DAAL01-95-M-S184/P01 | USARM-Develop W-Hf-Ti Composites    |            |
| U S Army             |        |        |       |           | Financial Manager:   | B J Pletka                          | 4,561.99   |
| N/A                  | E20595 | R10704 | 28605 | 960340    | DAAC79-96-P-0896     | USARM-T130 & T154 Bushing Tests     |            |
| U S Army             |        |        |       |           | Financial Manager:   | G R Simula                          | 1.87       |
| N/A                  | E20596 | R10706 | 22605 | 951034    | DAAL01-96-P-0690/P01 | USARM-Development of W-Hf-Ti Alloys |            |
| U S Army             |        |        |       |           | Financial Manager:   | G Subhash                           | 9,537.84   |
| N/A                  | E21127 | R10658 | 28605 | 941035    | DAAC79-94-P-4313/P01 | USARM/T-130 Bushing Endurance Test  |            |
| U S Army             |        |        |       |           | Financial Manager:   | G R Simula                          | 4,756.00   |
| N/A                  | E21138 | R10674 | 28605 | 950640    | DAAC79-95-P-2012-P01 | USARM-T130 Bushing Endurance Tests  |            |
| U S Army             |        |        |       |           | Financial Manager:   | G R Simula                          | 8,100.78   |
| N/A                  | E21139 | R10675 | 28605 | 950641    | DAAC79-95-P-1988     | USARM-T130 Track Bushings Tests     |            |
| U S Army             |        |        |       |           | Financial Manager:   | G R Simula                          | 5,000.00   |
| Total for            |        |        |       |           |                      |                                     | 893,284.55 |
| U S Bureau of Mines: |        |        |       |           |                      |                                     |            |
| N/A                  | E20381 | R10665 | 22805 | 950243    | P.O.#P0255051-MOD01  | USBM-Upgrade MFIRE Program          |            |
| U S Bureau of Mines: |        |        |       |           | Financial Manager:   | R Greuer                            | 5,136.71   |
| Total for            |        |        |       |           |                      |                                     | 5,136.71   |



| CFDA#                              | Index  | Orgn   | Fund  | Proposal# | Contract #           | Fund Title                          | Amount      |
|------------------------------------|--------|--------|-------|-----------|----------------------|-------------------------------------|-------------|
| U S Cold Regions Research Eng Lab: |        |        |       |           |                      |                                     |             |
| N/A                                | E20592 | R10687 | 28605 | 951027    | DACA89-96-K-0001-P01 | USARM(CRREL)-Antarctic Traverse Rte |             |
| U S Cold Regions Research Eng Lab: |        |        |       |           |                      | Financial Manager:                  | R G Alger   |
|                                    |        |        |       |           |                      |                                     | 612.25-     |
| N/A                                | E20594 | R10703 | 28605 | 960335    | DACA-89-96-M-0276/P1 | USARM - CRREL Demo                  |             |
| U S Cold Regions Research Eng Lab: |        |        |       |           |                      | Financial Manager:                  | M D Osborne |
|                                    |        |        |       |           |                      |                                     | 2,958.12    |
| N/A                                | E20598 | R10719 | 28605 | 960726    | DACA89-96-K-0009-P01 | USARM(CRREL)-Circular Plate Loading |             |
| U S Cold Regions Research Eng Lab: |        |        |       |           |                      | Financial Manager:                  | R G Alger   |
|                                    |        |        |       |           |                      |                                     | 25,948.86   |
| N/A                                | E21142 | R10686 | 28605 | 951023    | DACA89-96-K0002/P001 | USARM(CRREL)-Eval Anti-Icing Fluids |             |
| U S Cold Regions Research Eng Lab: |        |        |       |           |                      | Financial Manager:                  | R G Alger   |
|                                    |        |        |       |           |                      |                                     | 3,785.31-   |
|                                    |        |        |       |           |                      | Total for                           | 24,509.42   |
| U S Dept of Commerce :             |        |        |       |           |                      |                                     |             |
| N/A                                | E24831 | R10673 | 24107 | 950414    | 015WCA90055          | USCOM-Develpmt/Mining L. Superior   |             |
| U S Dept of Commerce :             |        |        |       |           |                      | Financial Manager:                  | W C Kerfoot |
|                                    |        |        |       |           |                      |                                     | 107.69-     |
| N/A                                | E24930 | R10691 | 22205 | 951118    | IP6003               | NIST - Faculty Research Program     |             |
| U S Dept of Commerce :             |        |        |       |           |                      | Financial Manager:                  | M E Mullins |
|                                    |        |        |       |           |                      |                                     | 574.70      |
| N/A                                | E24931 | R10713 | 22605 | 960625    | IP6014               | NIST-Software CAME & SIMA Projects  |             |
| U S Dept of Commerce :             |        |        |       |           |                      | Financial Manager:                  | Z Ling      |
|                                    |        |        |       |           |                      |                                     | 24,669.30   |
| N/A                                | E24932 | R10715 | 22605 | 960727    | 43NANB614188         | NIST-Develpmt Integration Environ   |             |
| U S Dept of Commerce :             |        |        |       |           |                      | Financial Manager:                  | Z Ling      |
|                                    |        |        |       |           |                      |                                     | 22,447.00   |
| N/A                                | E24933 | R10731 | 22605 | 960625    | IP6014               | NIST-Software CAME & SIMA Projects  |             |
| U S Dept of Commerce :             |        |        |       |           |                      | Financial Manager:                  | Z Ling      |
|                                    |        |        |       |           |                      |                                     | 20,586.00   |
| N/A                                | E24934 | R10735 | 22605 | 960727P2  | 43NANB711786         | NIST- Integration Environment for A |             |
| U S Dept of Commerce :             |        |        |       |           |                      | Financial Manager:                  | Z Ling      |
|                                    |        |        |       |           |                      |                                     | 13,539.77   |
| N/A                                | E24935 | R10737 | 22205 | 951018    | PO #43RANB7B2377     | NIST-Henry's Constant Measurement   |             |
| U S Dept of Commerce :             |        |        |       |           |                      | Financial Manager:                  | T N Rogers  |
|                                    |        |        |       |           |                      |                                     | 2,507.76    |
|                                    |        |        |       |           |                      | Total for                           | 84,216.84   |
| U S Dept of Energy:                |        |        |       |           |                      |                                     |             |
| N/A                                | E21601 | R10580 | 22555 | 920821    | DEAC22-93BC14892-M03 | DOE-Master Reservoir Parameters EOR |             |
| U S Dept of Energy:                |        |        |       |           |                      | Financial Manager:                  | J R Wood    |
|                                    |        |        |       |           |                      |                                     | 112,845.37  |
| N/A                                | E21602 | R10581 | 28305 | 920821    | DEAC22-93BC14892-M03 | DOE-Master Reservoir Parameters EOR |             |
| U S Dept of Energy:                |        |        |       |           |                      | Financial Manager:                  | J Hwang     |
|                                    |        |        |       |           |                      |                                     | 35,549.65   |

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MICHIGAN TECHNOLOGICAL UNIVERSITY  
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| CFDA#               | Index  | Orgn   | Fund  | Proposal# | Contract #           | Fund Title                          | Amount       |
|---------------------|--------|--------|-------|-----------|----------------------|-------------------------------------|--------------|
| N/A                 | E21664 | R10628 | 22555 | 930123    | DE-FC22-94BC14983-M4 | USENE - Oil Recov-Dundee Formation  |              |
| U S Dept of Energy: |        |        |       |           | Financial Manager:   | J R Wood                            | 137,289.84   |
| N/A                 | E21665 | R10629 | 28305 | 930123    | DE-FC22-94BC14983-M4 | USENE - Oil Recov-Dundee Formation  |              |
| U S Dept of Energy: |        |        |       |           | Financial Manager:   | J Hwang                             | 34,600.57    |
| N/A                 | E21676 | R10685 | 22555 | 930123    | DE-FC22-94BC14983-M4 | USENE-Oil Recovery-Dundee Formation |              |
| U S Dept of Energy: |        |        |       |           | Financial Manager:   | J R Wood                            | 460,622.85   |
| N/A                 | E21677 | R10690 | 28305 | 930123    | DE-FC22-94BC14983-M4 | USENE-Oil Recovery-Dundee Formation |              |
| U S Dept of Energy: |        |        |       |           | Financial Manager:   | J Hwang                             | 47,352.61    |
| N/A                 | E21680 | R10717 | 22405 | 941226    | DE-AR21-96MC-33082   | USENE-Air Sparging Performance      |              |
| U S Dept of Energy: |        |        |       |           | Financial Manager:   | N J Hutzler                         | 58,587.61    |
| N/A                 | E21681 | R10718 | 22555 | 941226    | DE-AR21-96MC-33082   | USENE-Air Sparging Performance      |              |
| U S Dept of Energy: |        |        |       |           | Financial Manager:   | J S Gierke                          | 82,199.19    |
| N/A                 | E33766 | S90148 | 22555 | 930123    | DE-FC22-94BC14983-M4 | MTU - Baoguo Wei Fellowship         |              |
| U S Dept of Energy: |        |        |       |           | Financial Manager:   | W D Pennington                      | 11,940.34    |
| N/A                 | E33767 | S90149 | 22555 | 930123    | DE-FC22-94BC14983-M4 | MTU - Bill Everham Fellowship       |              |
| U S Dept of Energy: |        |        |       |           | Financial Manager:   | J E Huntoon                         | 12,545.34    |
| N/A                 | E33771 | S90153 | 22555 | 930123    | DE-FC22-94BC14983-M4 | MTU - Zhiyong Xu Fellowship         |              |
| U S Dept of Energy: |        |        |       |           | Financial Manager:   | W D Pennington                      | 9,041.35     |
| N/A                 | E33984 | S90068 | 22555 | 930123    | DE-FC22-94BC14983-M4 | MTU - Zhiyong Xu Fellowship         |              |
| U S Dept of Energy: |        |        |       |           | Financial Manager:   | J R Wood                            | 2,768.34     |
| N/A                 | E34016 | S90170 | 22555 | 930123    | DE-FC22-94BC14983-M4 | MTU/DOE - Deyi Xie Fellowship       |              |
| U S Dept of Energy: |        |        |       |           | Financial Manager:   | J R Wood                            | 14,641.66    |
|                     |        |        |       |           |                      |                                     | -----        |
|                     |        |        |       |           | Total for            |                                     | 1,019,984.72 |
| U S Forest Service: |        |        |       |           |                      |                                     |              |
| N/A                 | E20237 | R10556 | 23005 | 930505A   | INT-93791-RJVA-AMD01 | USDA-Soil Monitoring & Data Mgmt FF |              |
| U S Forest Service: |        |        |       |           | Financial Manager:   | M F Jurgensen                       | 5,100.78     |
| N/A                 | E20243 | R10578 | 23805 | 921227    | FP-93-2022           | USDA-Eval Timber Bridge Preservativ |              |
| U S Forest Service: |        |        |       |           | Financial Manager:   | P E Laks                            | 2,356.22     |
| N/A                 | E20250 | R10625 | 23805 | 931026    | FP-94-2271-AMD No.2  | USDA-Treatability/Durability Wood   |              |
| U S Forest Service: |        |        |       |           | Financial Manager:   | Z Wang                              | 9,618.03     |
| N/A                 | E20251 | R10624 | 23805 | 931027    | FP-94-2288 AMD01     | USDA-Economics of Timber Bridges    |              |
| U S Forest Service: |        |        |       |           | Financial Manager:   | Z Wang                              | 7,656.27     |

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| CFDA#               | Index  | Orgn   | Fund  | Proposal# | Contract #           | Fund Title                           | Amount     |
|---------------------|--------|--------|-------|-----------|----------------------|--------------------------------------|------------|
| N/A                 | E20252 | R10626 | 23005 | 900519A   | R910-CS-93-016 B     | USDA-WETLANDS ECO CLASSIFICATION SY  |            |
| U S Forest Service: |        |        |       |           | Financial Manager:   | M R Gale                             | 0.00       |
| N/A                 | E20255 | R10633 | 24805 | 940618    | 43-54B0-4-0128/Sub02 | USFS-Archeol. Coll.-Hiawatha Nat'l.  |            |
| U S Forest Service: |        |        |       |           | Financial Manager:   | S R Martin                           | 2,116.85   |
| N/A                 | E20266 | R10672 | 23005 | 950503    | R910-CS-95-031       | USDA-Hiawatha Nat'l Ecosystem Class  |            |
| U S Forest Service: |        |        |       |           | Financial Manager:   | M R Gale                             | 1,637.02-  |
| N/A                 | E20270 | R10679 | 23005 | 950801    | R910-CS-9-034        | USDA/FS-Forest Floor Condition RNA   |            |
| U S Forest Service: |        |        |       |           | Financial Manager:   | G D Mroz                             | 7,034.25   |
| N/A                 | E20276 | R50840 | 23005 | 950719    | INT-95112-RJVA-AMD#2 | USAGR-Long-Term Resiliency of Soils  |            |
| U S Forest Service: |        |        |       |           | Financial Manager:   | M F Jurgensen                        | 36,752.96  |
| N/A                 | E20277 | R10684 | 23805 | 950604    | 95-RJVA-2622         | USDA-Copper Naphthenate Preservativ  |            |
| U S Forest Service: |        |        |       |           | Financial Manager:   | G D McGinnis                         | 13,830.40  |
| N/A                 | E20278 | R10692 | 24805 | 951106    | R907-CC-90-96-001    | USDA-Curation Archaeological Collect |            |
| U S Forest Service: |        |        |       |           | Financial Manager:   | S R Martin                           | 501.42     |
| N/A                 | E20280 | R10693 | 24105 | 940934    | 40-82FT-4-1677 Sub01 | USDA-Dissolved Organic Carbon Sampl  |            |
| U S Forest Service: |        |        |       |           | Financial Manager:   | J H Adler                            | 1,486.66   |
| N/A                 | E20284 | R50879 | 23805 | 960126    | 96-RJVA-2726-AMD2    | USDA-Pollution Prevention Technolog  |            |
| U S Forest Service: |        |        |       |           | Financial Manager:   | G D McGinnis                         | 39,847.13  |
| N/A                 | E20286 | R10707 | 24805 | 960528    | R910-CS-96-037       | USAGR-Archaeology Rach Rock Kilns    |            |
| U S Forest Service: |        |        |       |           | Financial Manager:   | D B Landon                           | 17,737.00  |
| N/A                 | E20287 | R10709 | 23005 | 960501    | R910-CS-96-038-AMD1  | USAGR-Hiawatha Ecosystem Mapping     |            |
| U S Forest Service: |        |        |       |           | Financial Manager:   | M R Gale                             | 71,415.03  |
| N/A                 | E20289 | R10712 | 23005 | 960617    | NC-96-602-RJVA AMD 1 | USAGR-Scaling Effects Ozone & Co2    |            |
| U S Forest Service: |        |        |       |           | Financial Manager:   | D F Karnosky                         | 59,646.18  |
| N/A                 | E20294 | R10714 | 23805 | 960607    | 96-RJVA-2770         | USAGR-Wettabilities Waste Fiberglas  |            |
| U S Forest Service: |        |        |       |           | Financial Manager:   | D J Gardner                          | 2,000.00   |
| N/A                 | E20295 | R10723 | 24805 | 960814    | NC-96-618-RJVA-AMD 1 | USAGR-Impact Assessment U.P. Forest  |            |
| U S Forest Service: |        |        |       |           | Financial Manager:   | K E Halvorsen                        | 3,039.97   |
| N/A                 | E20303 | R10732 | 23005 | 970217    | 53-56A1-6-01597      | USDA-Advanced Studies Silviculture   |            |
| U S Forest Service: |        |        |       |           | Financial Manager:   | G D Mroz                             | 27,825.70  |
| N/A                 | E20304 | R10733 | 24805 | 961123    | R907-MOU-90-95-001   | USAGR-Archaeological Collections     |            |
| U S Forest Service: |        |        |       |           | Financial Manager:   | S R Martin                           | 631.52     |
| N/A                 | E21981 | R10535 | 23005 | 870306C   | INT-92671-RJVA-AMD06 | USFS-Master-Soil Organic Matter & N  |            |
| U S Forest Service: |        |        |       |           | Financial Manager:   | M F Jurgensen                        | 7,290.69   |
| Total for           |        |        |       |           |                      |                                      | 314,250.04 |

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| CFDA#                         | Index  | Orgn   | Fund  | Proposal# | Contract #           | Fund Title                          | Amount       |
|-------------------------------|--------|--------|-------|-----------|----------------------|-------------------------------------|--------------|
| U S Office of Naval Research: |        |        |       |           |                      |                                     |              |
| N/A                           | E21150 | R10734 | 22505 | 970103    | N00014-97-P-2030-P01 | NAVAL - LMI-Based Optimization      |              |
| U S Office of Naval Research: |        |        |       |           |                      | Financial Manager: J O Coleman      | 11,284.24    |
|                               |        |        |       |           |                      | Total for                           | 11,284.24    |
| U S Tank Automotive Command:  |        |        |       |           |                      |                                     |              |
| N/A                           | E20474 | R10550 | 28605 | 930220A1  | DAAE07-93G-R001-DO02 | TACOM - Prism Target Database       |              |
| U S Tank Automotive Command:  |        |        |       |           |                      | Financial Manager: A R Curran       | 97,697.35    |
| N/A                           | E20478 | R10570 | 28605 | 930707    | DAAE07-93-C-R143-P04 | TACOM-Bushing Spec & Qualification  |              |
| U S Tank Automotive Command:  |        |        |       |           |                      | Financial Manager: G R Simula       | 75,856.81    |
| N/A                           | E20480 | R10617 | 22505 | 930220A1  | DAAE07-93G-R001-DO02 | TACOM-Prism Target Database         |              |
| U S Tank Automotive Command:  |        |        |       |           |                      | Financial Manager: T J Schulz       | 6.60-        |
| N/A                           | E20493 | R10622 | 22705 | 930621    | DAAE07-94-C-R058/P02 | TACOM-Ausforming Ductile Cast Iron  |              |
| U S Tank Automotive Command:  |        |        |       |           |                      | Financial Manager: K B Rundman      | 12,099.44    |
| N/A                           | E20485 | R10648 | 24605 | 940342    | DAAE07-94-C-R098/P02 | TACOM-Detect Cesium-Metal Beryllium |              |
| U S Tank Automotive Command:  |        |        |       |           |                      | Financial Manager: J Borysow        | 40,031.40    |
| N/A                           | E20571 | R10523 | 28605 | 890419B   | DAAE07-89-CR071 MD10 | TACOM-Dsgn & Fab Track Components   |              |
| U S Tank Automotive Command:  |        |        |       |           |                      | Financial Manager: G R Simula       | 0.01         |
| N/A                           | E20575 | R10563 | 22605 | 930318    | DAAE07-93-C-R078/M05 | TACOM-ADVANCE ACCT-2 Stroke Engine  |              |
| U S Tank Automotive Command:  |        |        |       |           |                      | Financial Manager: D L Abata        | 118,700.90   |
| N/A                           | E20576 | R10576 | 22605 | 930318    | DAAE07-93-C-R078/M05 | TACOM-ADVANCE ACCT-2 Stroke Engine  |              |
| U S Tank Automotive Command:  |        |        |       |           |                      | Financial Manager: P Cho            | 36,543.65    |
| N/A                           | E20577 | R10577 | 22605 | 930318    | DAAE07-93-C-R078/M05 | TACOM-2 Stroke Engine Fueled w/JP8  |              |
| U S Tank Automotive Command:  |        |        |       |           |                      | Financial Manager: D L Abata        | 22,864.42    |
| N/A                           | E20583 | R10647 | 28605 | 940602    | DAAE07-93-G-R001/408 | TACOM-Thermal Radar Signature Red.  |              |
| U S Tank Automotive Command:  |        |        |       |           |                      | Financial Manager: R A Haase        | 170,896.89   |
| N/A                           | E20584 | R10649 | 28705 | 940815    | IPA Dated 07/06/94   | TACOM-Michigan Automotive Institute |              |
| U S Tank Automotive Command:  |        |        |       |           |                      | Financial Manager: E J White        | 622.31-      |
| N/A                           | E20599 | R10721 | 28705 | 940815    | IPA Dated 8/16/96    | TACOM-Michigan Automotive Institute |              |
| U S Tank Automotive Command:  |        |        |       |           |                      | Financial Manager: E J White        | 2,040.56     |
|                               |        |        |       |           |                      | Total for                           | 576,102.52   |
|                               |        |        |       |           |                      | GRAND TOTAL                         | 3,583,512.54 |

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MICHIGAN TECHNOLOGICAL UNIVERSITY  
Student Financial Aid - Summary Expense by CFDA#  
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| CFDA#  | Grantor ID#                        | Index  | Fund   | Orgn  | Proposal#          | Contract # | Fund Title                  | Amount       |
|--------|------------------------------------|--------|--------|-------|--------------------|------------|-----------------------------|--------------|
| -----  |                                    |        |        |       |                    |            |                             |              |
| S12300 | U.S. Dept of Education-Yr to date: |        |        |       |                    |            |                             |              |
| 84.033 |                                    | E32722 | S90040 | 34002 |                    |            | DOE-Campus Work Study       |              |
|        |                                    |        |        |       | Financial Manager: |            | T T Malette                 | 238,112.96   |
|        |                                    |        |        |       |                    |            |                             | -----        |
|        |                                    |        |        |       |                    |            | TOTAL FOR CFDA# 84.033      | 238,112.96   |
| 84.063 |                                    | E30715 | S90025 | 34002 |                    |            | DOE-Pell Grant Scholarships |              |
|        |                                    |        |        |       | Financial Manager: |            | T T Malette                 | 1,428,311.00 |
|        |                                    |        |        |       |                    |            |                             | -----        |
|        |                                    |        |        |       |                    |            | TOTAL FOR CFDA# 84.063      | 1,428,311.00 |
| 84.066 |                                    | E32720 | S90030 | 34002 |                    |            | DOE-SEOG                    |              |
|        |                                    |        |        |       | Financial Manager: |            | T T Malette                 | 347,478.00   |
|        |                                    |        |        |       |                    |            |                             | -----        |
|        |                                    |        |        |       |                    |            | TOTAL FOR CFDA# 84.066      | 347,478.00   |
|        |                                    |        |        |       |                    |            |                             | -----        |
|        |                                    |        |        |       |                    |            | TOTAL FOR S12300            | 2,013,901.96 |
|        |                                    |        |        |       |                    |            |                             | -----        |
|        |                                    |        |        |       |                    |            | GRAND TOTAL FOR CFDA's      | 2,013,901.96 |
|        |                                    |        |        |       |                    |            |                             | =====        |

The accompanying notes are an integral part of these financial statements.

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| CFDA#                           | Grantor ID# | Index  | Fund  | Orgn | Proposal# | Contract # | Fund Title  | Amount    |
|---------------------------------|-------------|--------|-------|------|-----------|------------|---|-----------|
| -----                           |             |        |       |      |           |            |   |           |
| C11300 U.S. Dept. of Education: |             |        |       |      |           |            |   |           |
|                                 | S79167      | C10065 | 32503 |      |           |            | Robert C. Byrd Honors<br>Financial Manager: T T Malette | 72,493.00 |
|                                 |             |        |       |      |           |            | TOTAL FOR C11300  | 72,493.00 |
| -----                           |             |        |       |      |           |            |   |           |
| S10001 Fellowships              |             |        |       |      |           |            |   |           |
|                                 | E33249      | S10001 | 22693 |      |           |            | Fellowships<br>Financial Manager:                       | 21,349.70 |
|                                 | E33260      | S10001 | 22649 |      |           |            | Fellowships<br>Financial Manager:                       | 219.18    |
|                                 |             |        |       |      |           |            | TOTAL FOR S10001  | 21,568.88 |
|                                 |             |        |       |      |           |            | GRAND TOTAL   | 94,061.88 |
| -----                           |             |        |       |      |           |            |   |           |

The accompanying notes are an integral part of these financial statements.

MICHIGAN TECHNOLOGICAL UNIVERSITY  
Other Federal Funding - Summary Expense by Agency  
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| CFDA#                                      | Grantor ID# | Index  | Fund   | Orgn  | Proposal#          | Contract #  | Fund Title                           | Amount    |
|--|-------------|--------|--------|-------|--------------------|-------------|--------------------------------------|-----------|
| N90100 U.S. Army Tank Automotive Command   |             |        |        |       |                    |             |                                      |           |
|  | D90014      | N40081 | 28701  |       |                    |             | TARDEC Educational Programs          |           |
|  |             |        |        |       | Financial Manager: |             | E J White                            | 0.83      |
|  |             |        |        |       |                    |             |                                      | -----     |
| TOTAL FOR N90100                           |             |        |        |       |                    |             |                                      | 0.83      |
|  |             |        |        |       |                    |             |                                      |           |
| N91100 Natl Aeronautics Sp Agen-Pass Thru  |             |        |        |       |                    |             |                                      |           |
|  | D92450      | N51410 | 36002  |       |                    |             | U of M NASA Space Consortium         |           |
|  |             |        |        |       | Financial Manager: |             | C S Anderson                         | 38.45-    |
|  |             |        |        |       |                    |             |                                      | -----     |
| TOTAL FOR N91100                           |             |        |        |       |                    |             |                                      | 38.45-    |
|  |             |        |        |       |                    |             |                                      |           |
| R40111 NASA Fed Pass Thru:                 |             |        |        |       |                    |             |                                      |           |
| N/A  | UNIVE0156   | E28529 | R40645 | 36001 | 950713             | A01811      | UofM/NASA-Space Grant Administrativ  |           |
|  |             |        |        |       | Financial Manager: |             | C S Anderson                         | 1,520.03  |
|  |             |        |        |       |                    |             |                                      | -----     |
| TOTAL FOR R40111                           |             |        |        |       |                    |             |                                      | 1,520.03  |
|  |             |        |        |       |                    |             |                                      |           |
| R50103 NASA                                |             |        |        |       |                    |             |                                      |           |
| N/A  | USNAS0012   | E34022 | S90176 | 23005 | 960315             | NGT-30028   | NASA - Malanding Jaiteh Fellowship   |           |
|  |             |        |        |       | Financial Manager: |             | P V Desanker                         | 19,890.75 |
|  |             |        |        |       |                    |             |                                      | -----     |
| TOTAL FOR R50103                           |             |        |        |       |                    |             |                                      | 19,890.75 |
|  |             |        |        |       |                    |             |                                      |           |
| R50122 Institute-Museum & Library Services |             |        |        |       |                    |             |                                      |           |
| N/A  | INSTI0008   | E24900 | R50988 | 22595 | 970607             | IA-70032-97 | IMLS-1997 Conservation Assess. Prygm |           |
|  |             |        |        |       | Financial Manager: |             | S J Dyl                              | 4,166.30  |
|  |             |        |        |       |                    |             |                                      | -----     |
| TOTAL FOR R50122                           |             |        |        |       |                    |             |                                      | 4,166.30  |
|  |             |        |        |       |                    |             |                                      |           |
| R80103 NASA Fed Pass Thru:                 |             |        |        |       |                    |             |                                      |           |
| N/A  | UNIVE0156   | E28490 | R80611 | 36001 | 961102             | A28077      | UNIVE-97/98 American Indian Biologi  |           |
|  |             |        |        |       | Financial Manager: |             | S N Rudak                            | 0.59      |
|  |             |        |        |       |                    |             |                                      |           |
| N/A  | UNIVE0156   | E28495 | R80612 | 36001 | 961101             | A28077      | UNIVE-97/98 Women & Minorities In E  |           |
|  |             |        |        |       | Financial Manager: |             | S N Rudak                            | 4,431.85  |

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| CFDA#                                     | Grantor ID# | Index  | Fund   | Orgn  | Proposal# | Contract #                            | Fund Title  | Amount    |
|---|-------------|--------|--------|-------|-----------|---------------------------------------|---|-----------|
| N/A                                       | UNIVE0156   | E28498 | R80613 | 36001 | 961103    | A28077<br>Financial Manager:          | UNIVE-97/98 SYP Space & the Environ<br>C S Anderson | 0.00      |
| N/A                                       | UNIVE0156   | E28519 | R80594 | 36001 | 960213    | Letter 04/01/96<br>Financial Manager: | UNIVE-96/97 Detroit Teacher Fellow<br>S N Rudak     | 5,000.00  |
| N/A                                       | UNIVE0156   | E28521 | R80590 | 36001 | 960214    | Letter 04/01/96<br>Financial Manager: | UNIVE-96/97 Women&Minorities Group<br>S N Rudak     | 5,000.00  |
| N/A                                       | UNIVE0156   | E28523 | R80592 | 36001 | 960215    | Letter 04/01/96<br>Financial Manager: | UNIVE-96/97 American Indian Biologi<br>S N Rudak    | 5,000.00  |
| N/A                                       | UNIVE0156   | E28525 | R80588 | 36001 | 960714-18 | A00400<br>Financial Manager:          | UNIVE-Mich Space Grant 1996 Fellows<br>C S Anderson | 20,000.00 |
| N/A                                       | UNIVE0156   | E28528 | R80593 | 36001 | 960216    | Letter 04/01/96<br>Financial Manager: | UNIVE-96/97 Women&Minorities TCA Fe<br>S N Rudak    | 5,000.00  |
| N/A                                       | UNIVE0156   | E28550 | R80610 | 36001 | 961109ETC | A28087<br>Financial Manager:          | UNIVE-Mich Space Grant 1997 Fellows<br>C S Anderson | 6,661.98  |
| N/A                                       | UNIVE0236   | E28567 | R80563 | 36001 | 941147    | G56305<br>Financial Manager:          | Univ of Mich-NASA Quality Math &Sci<br>C S Anderson | 1,750.00  |
| N/A                                       | UNIVE0236   | E28568 | R80564 | 36001 | 941146    | G56304<br>Financial Manager:          | Univ Mich-NASA Quality Function Dep<br>C S Anderson | 0.00      |
| TOTAL FOR R80103                          |             |        |        |       |           |                                       |   | 52,844.42 |
| S10301 National Science Foundation (PTD): |             |        |        |       |           |                                       |   |           |
|   | E33940      | S20067 | 24301  |       |           | Financial Manager:                    | NSF-Calculus Reform Workshop-Math<br>K A Godbole    | 1,927.49  |
| TOTAL FOR S10301                          |             |        |        |       |           |                                       |   | 1,927.49  |
| GRAND TOTAL                               |             |        |        |       |           |                                       |   | 80,311.37 |

The accompanying notes are an integral part of these financial statements.

08/07/97  
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MICHIGAN TECHNOLOGICAL UNIVERSITY  
Other Federal Funding - Summary Expense by CFDA#  
From 07/01/96 to 06/30/97

| CFDA#                  | Grantor ID# | Index  | Fund   | Orgn  | Proposal# | Contract #                                | Fund Title  | Amount     |
|------------------------|-------------|--------|--------|-------|-----------|---|---|------------|
| 17.600                 | MILAB0001   | E27020 | R40622 | 22805 | 860708D   | Agreement 12/18/95<br>Financial Manager:  | MI Labor-Mine Safety & Health Trng<br>D H Carlson   | 43,685.77  |
| 17.600                 | MICON0002   | E27038 | R80597 | 22805 | 960628    | Agreement 01/24/97<br>Financial Manager:  | MILAB-1997 Michigan Mine Safety Pro<br>O F Otuonye  | 115,594.23 |
| TOTAL FOR CFDA# 17.600 |             |        |        |       |           |   |   | 159,280.00 |
| 84.048                 | MIEDU0021   | E27040 | R80586 | 36001 | 950925    | Project Number 4802<br>Financial Manager: | MIEDU-Summer Institute for Tech 96<br>S N Rudak     | 11,949.41  |
| TOTAL FOR CFDA# 84.048 |             |        |        |       |           |   |   | 11,949.41  |
| 84.116                 | USEDU0005   | E24871 | R50929 | 21150 | 960331    | P116N60038<br>Financial Manager:          | USEDU-Alliance N. American Mobility<br>K F Markgraf | 5,143.79   |
| TOTAL FOR CFDA# 84.116 |             |        |        |       |           |   |   | 5,143.79   |
| GRAND TOTAL FOR CFDA's |             |        |        |       |           |   |   | 176,373.20 |

The accompanying notes are an integral part of these financial statements.

MICHIGAN TECHNOLOGICAL UNIVERSITY

SCHEDULE OF FEDERAL AWARDS

FOR THE YEAR ENDED JUNE 30, 1998

(continued)

**Federal Awards Expenditures**

**SUMMARY FROM PAGES 3-45**

|                              |                   |
|------------------------------|-------------------|
| Research and Development     | \$14,336,015*     |
| Student Financial Aid        | 2,107,964*        |
| Other Federal Awards         | 256,684**         |
|                              | <hr/>             |
| <b>Total from Pages 3-45</b> | <b>16,700,663</b> |

**NON-CASH ASSISTANCE**

|                |              |
|----------------|--------------|
| Perkins Loans  | \$ 8,659,733 |
| Stafford Loans | 9,565,250    |
| PLUS Loans     | 752,034      |
|                | <hr/>        |

|                                  |                   |
|----------------------------------|-------------------|
| <b>Total Non-cash Assistance</b> | <b>18,977,017</b> |
|                                  | <hr/>             |

|                             |                     |
|-----------------------------|---------------------|
| <b>TOTAL FEDERAL AWARDS</b> | <b>\$35,677,680</b> |
|                             | <b>=====</b>        |

\* Major Programs

\*\* No Federally funded program classified as other qualified as a major program.

\*\*\* Perkins loans are measured by total loans outstanding at June 30, 1996, plus new loans awarded during the year ended June 30, 1997.

Expenditures included in the pages noted above are indicated as such.

MICHIGAN TECHNOLOGICAL UNIVERSITY  
NOTES TO SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS  
FOR THE YEAR ENDED JUNE 30, 1997

(1) BASIS OF ACCOUNTING

The Schedule of Expenditures of Federal Awards is presented on the same basis of accounting used for presentation of the University's financial statements, which is in accordance with generally accepted accounting principles.

(2) CATALOG OF FEDERAL DOMESTIC ASSISTANCE (CFDA) NUMBERS

All programs with identifiable CFDA numbers have been listed separately. All other programs for which such numbers were unavailable or in the case of NASA and others who do not issue CFDA numbers, the applicable award numbers have been provided.

MICHIGAN TECHNOLOGICAL UNIVERSITY  
SCHEDULE OF FINDINGS AND QUESTIONED COSTS  
FOR THE YEAR ENDED JUNE 30, 1997

*Financial Statements*

Type of auditor's report issued: Unqualified

Internal control over financial reporting:

- Material weakness(es) identified? \_\_\_\_\_yes      X  no
- Reportable condition(s) identified that are not considered to be material weaknesses? \_\_\_\_\_yes      X  none reported

Noncompliance material to financial statements noted? \_\_\_\_\_yes      X  no

*Federal Awards*

Internal control over major programs:

- Material weakness(es) identified? \_\_\_\_\_yes      X  no
- Reportable condition(s) identified are not considered to be material weakness(es)? \_\_\_\_\_yes      X  none reported

Type of auditor's report issued on compliance for major programs: Unqualified

Any audit findings disclosed that are required to be reported in accordance with section 510(a) of Circular A-133? \_\_\_\_\_yes      X  no

Identification of major programs

CFDA Number(s)

Name of Federal Program or Cluster

Various  
Various

Research & Development  
Student Financial Aid

Dollar threshold used to distinguish between type A and type B programs: \$1,070,330

- Auditee qualified as low-risk auditee?   X  yes    \_\_\_\_\_no