

**MICHIGAN TECHNOLOGICAL UNIVERSITY**

***MichiganTech***<sup>®</sup>

**FEDERAL AWARDS  
SINGLE AUDIT REPORT**

**JUNE 30, 2003**

# MICHIGAN TECHNOLOGICAL UNIVERSITY

## SINGLE AUDIT REPORT

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**REHMANN ROBSON**

*Certified Public Accountants*

A member of **THE REHMANN GROUP**

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**INDEPENDENT AUDITORS' REPORT ON COMPLIANCE AND ON  
INTERNAL CONTROL OVER FINANCIAL REPORTING BASED ON AN AUDIT OF  
FINANCIAL STATEMENTS PERFORMED IN ACCORDANCE WITH GOVERNMENT  
AUDITING STANDARDS**

October 9, 2003

Board of Control  
Michigan Technological University  
Houghton, Michigan

We have audited the financial statements of *Michigan Technological University* as of and for the year ended June 30, 2003 and have issued our report thereon dated October 9, 2003. We conducted our audit in accordance with auditing standards generally accepted in the United States of America and the standards applicable to financial statements contained in *Government Auditing Standards*, issued by the Comptroller General of the United States.

Compliance

As part of obtaining reasonable assurance about whether *Michigan Technological 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*.

250 E. Front St., 2<sup>nd</sup> Floor  
P.O. Box 808  
Traverse City, MI 49685

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### Internal Control over Financial Reporting

In planning and performing our audit, we considered *Michigan Technological 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 solely for the information and use of the Board of Control, management, and federal awarding agencies, and is not intended to be and should not be used by anyone other than these specified parties.

A handwritten signature in cursive script that reads "Lehmann Johnson".



**REHMANN ROBSON**

*Certified Public Accountants*

A member of **THE REHMANN GROUP**

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

October 9, 2003

Board of Control  
Michigan Technological University  
Houghton, Michigan

Compliance

We have audited the compliance of *Michigan Technological 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, 2003. Michigan Technological University's major federal programs are identified in the summary of auditor's results section of the accompanying schedule of findings and questioned costs. Compliance with the requirements of laws, regulations, contracts, and grants applicable to each of its major federal programs is the responsibility of Michigan Technological University's management. Our responsibility is to express an opinion on Michigan Technological University's compliance based on our audit.

We conducted our audit of compliance in accordance with auditing standards generally accepted in the United States of America; the standards applicable to financial statements 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 *Michigan Technological 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 on *Michigan Technological 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, 2003.

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### Internal Control over Compliance

The management of *Michigan Technological 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 **Michigan Technological University's** internal control over 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.

### Schedule of Expenditures of Federal Awards

We have audited the financial statements of *Michigan Technological University* as of and for the year ended June 30, 2003 and have issued our report thereon dated October 9, 2003. Our audit was performed for the purpose of forming an opinion on the financial statements taken as a whole. The accompanying schedule of expenditures of federal awards is presented for purpose of additional analysis as required by OMB Circular A-133 and is not a required part of the financial statements. Such information has been subjected to the auditing procedures applied in the audit of the financial statements and, in our opinion, is fairly stated, in all material respects, in relation to the financial statements taken as a whole.

This report is intended solely for the information and use of the Board of Control, management, and federal awarding agencies, and is not intended to be and should not be used by anyone other than these specified parties.

A handwritten signature in black ink that reads "Lehmann Johnson". The signature is written in a cursive, flowing style.

**Michigan Technological University  
Schedule of Expenditures of Federal Awards  
For the year ended June 30, 2003**

<u>Federal Agency/ CFDA#</u>	<u>Program title/major subdivision</u>	<u>Grant/contract title</u>	<u>Pass thru entity if applicable</u>	<u>Contract #</u>	<u>Expenditures</u>
<b>RESEARCH AND DEVELOPMENT CLUSTER - CFDA # AVAILABLE</b>					
U.S. DEPARTMENT OF AGRICULTURE					
10.202	Mcintyre Stennis Act	MS-FY02-Research Administration	n/a	FY02 MCINTIRE-STENNIS	\$ 39,462
	"	MS-FY02-Admin Discretionary	n/a	FY02 MCINTIRE-STENNIS	14,468
	"	MS-FY02-Graduate Student Support	n/a	FY02 MCINTIRE-STENNIS	30,669
	"	MS-FY03-Research Administration	n/a	FY03 MCINTIRE-STENNIS	54,489
	"	MS-FY03-Wood Stake Decomposition	n/a	FY03 MCINTIRE-STENNIS	1,568
	"	MS-FY03-Molecular Genetics in Aspen	n/a	FY03 MCINTIRE-STENNIS	4,611
	"	MS-FY03-Western U.P. Land Use Centr	n/a	FY03 MCINTIRE-STENNIS	4,769
	"	MS-FY03 - A Plague of Maples	n/a	FY03 MCINTIRE-STENNIS	2,670
	"	MS-FY03-Wolf/Moose-Isle Royale	n/a	FY03 MCINTIRE-STENNIS	2,899
	"	MS-PBC-FY03 - Cryopreservation	n/a	FY03 MCINTIRE-STENNIS	5,935
	"	MS-FY03-Robust Methodology to Map	n/a	FY03 MCINTIRE-STENNIS	5,332
	"	MS-FY03-Toxic Metals-Ruffed Grouse	n/a	FY03 MCINTIRE-STENNIS	2,726
	"	MS-FY03 - Sarracenia Purpurea	n/a	FY03 MCINTIRE-STENNIS	2,892
	"	MS-FY03-Impacts of Greenhouse Gases	n/a	FY03 MCINTIRE-STENNIS	2,226
	"	MS-FY03-Regeneration Jack Pine Frst	n/a	FY03 MCINTIRE-STENNIS	2,562
	"	MS-FY03 - Pennsylvania Sedge	n/a	FY03 MCINTIRE-STENNIS	2,019
	"	MS-FY03-Carbon Cycling-Pine/Aspen	n/a	FY03 MCINTIRE-STENNIS	1,100
					180,397
10.206	Grants for agricultural research- competitive research grants	UNIVE-Load Sharing/System Factor	Oregon State University	SUBCONTRACT # C0239A-01	2,383
	"	USAGR-Wood Composite Panels	n/a	2001-35504-10042	60,474
	"	USAGR-PBC/Molecular Dissection	n/a	2003-35103-12906	8,507
	"	USAGR-PBC/Cellulose Augmentation	n/a	99-35103-7986	6,192
	"	USAGR-PBC/Cellulose Augmentation	n/a	99-35103-7986	12,631
	"	USAGR-Aspen to Melampsora Rust	n/a	2001-35100-10624	58,583
	"	USAGR-Aspen to Melampsora Rust	n/a	2001-35100-10624	53
	"	USAGR-PBC/Monolignol Biosynthesis	n/a	2001-35318-11268	14,080
	"	USAGR-Urea-Formaldehyde Adhesive	n/a	2001-35103-10870	13,789
	"	USAGR-Response-Fine Root Chemistry	n/a	2001-35107-11262	53,836
					230,528
10.219	Biotechnology risk assessment - research	USAGR-PBC/Ecol Consequences Aspen	n/a	00-39210-9812	61,151
	"	USAGR-PBC/Ecol Consequences Aspen	n/a	00-39210-9812	22,096
					83,247

**Michigan Technological University  
Schedule of Expenditures of Federal Awards  
For the year ended June 30, 2003**

<u>Federal Agency/ CFDA#</u>	<u>Program title/major subdivision</u>	<u>Grant/contract title</u>	<u>Pass thru entity if applicable</u>	<u>Contract #</u>	<u>Expenditures</u>
10.652	Forestry research	USAGR-Carbon & Nitrogen Cycling	n/a	01-CA-11242343-024	\$ 685
	"	USAGR - Phase 2-Carbon Models	n/a	SRS33-CA-98-462-AMD 3	213
	"	USAGR-Sugar Maple/Discolored Heart	n/a	00-CA-11242343-077-AMD NO. 1	6,573
	"	USAGR-Carbon & Nitrogen Cycling	n/a	02-CA-11242343-032	14,463
					21,934
10.664	Cooperative forestry assistance	USAGR-Intensive Log Bucker Training	n/a	00-DG-11244225-204-MOD NO. 2	4,678
U.S. DEPARTMENT OF COMMERCE					
11.431	Climate and atmospheric research	USCOM-RSI/ Year 1 - PICO-NARE Site	n/a	NA16GP1658-AMD NO. 1	16,895
	"	USCOM/RSI-Use of Climate Forecasts	n/a	NA16GP2947	34,054
	"	USCOM/RSI-Use of Climate Forecasts	n/a	NA16GP2947	23,890
	"	USCOM-RSI/ Year 2 - PICO-NARE Site	n/a	NA16GP1658-AMD NO. 1	123,544
					198,383
11.609	Measurement and engineering research and	NIST- Summer Undergrad Fellow Prgm	n/a	70NANB3H1040	4,040
DEPARTMENT OF DEFENSE					
12.300	Basic and applied scientific research	WASHI-Fundmntl Properties Energetic	Washington State University	G001118 AMENDMENT #1,#2 & #3	235,871
	"	OFFIC-Improving NQR Detection	n/a	N00173-01-1-G000-MOD P00005	60,981
	"	OFFIC-Breathing Photonic Crystals	n/a	N00014-03-1-0038	51,737
	"	OFFIC-Breathing Photonic Crystals	n/a	N00014-03-1-0038	22,710
					371,299
12.630	Basic, applied and advanced - research in scientific engineering	USAIR-Ground-Test Facility/Thruster	n/a	F49620-03-1-0300	4,186
	"	UNIVE-Year 3 Stdy Def/Dop Chalcopyr	Stanford University	PY-1372 AMEND 1,2,3	7,250
	"	STANF-Theo Stdy Dfcts Chalcopyrites	Stanford University	PY-1372 AMEND 1,2,3	75,439
					86,875
12.800	Air Force defense reseach - sciences program	USAIR-Design of Smart Structures	n/a	F49620-01-1-0152-MOD P00002	38,525
	"	UNIVE-Adv Concepts Grnd Base Imag	University of New Mexico	8-91601-7812/PO # 888039	58,031
	"	USAIR-Vaporizing Liquid-Metal Anode	n/a	F49620-03-1-0027	37,358
	"	USAIR - Nanosatellite Demonstrator	n/a	F49620-03-1-0139	7,543
	"	UNIVE-Science/Eng Carbon Foams	Ohio University	UT12219 SUB DATED 12/19/02	12,002
	"	UNIVE-Improving the Performance of	New Mexico State University	Q00570	23,005
					176,464
12.901	Mathematical sciences grant program	NATIO - Codes and Applications	n/a	MDA904-02-1-0010-MOD P00001	1,922
	"	NATIO-Codes,Designs,Finite Geometry	n/a	MDA904-03-1-088	16,814
					18,736



**Michigan Technological University  
Schedule of Expenditures of Federal Awards  
For the year ended June 30, 2003**

<u>Federal Agency/ CFDA#</u>	<u>Program title/major subdivision</u>	<u>Grant/contract title</u>	<u>Pass thru entity if applicable</u>	<u>Contract #</u>	<u>Expenditures</u>
12.910	Research and technology advanced-development	UNIVE-Power Adaptive Micro	University of Arizona	Y542471 MOD 1,2,3	\$ 14,898
U.S. DEPARTMENT OF THE INTERIOR					
15.228	Wildland urban interface community and rural fire assistance	USFIS-Firebreaks at Seney NWR	n/a	AGRMNT NO. 301813J066	<u>9,997</u>
15.807	Earthquake hazards reduction	USGEO - ID Ground Motion Parameters	n/a	02HQGR0110-MOD 01	<u>50,132</u>
15.808	U.S. geological survey - research and data acquisition	USGEO - YEAR 2 - Boreal Ecosystem	n/a	00CRAG0041-AMD 0002	24,044
	"	USGEO-RSI/Volcanic Hazards (Matias)	n/a	01WRAG0023-MOD NO. 1	1,731
	"	USGEO-RSI/Volcanic Hazards-Escobar	n/a	01WRAG0023-MOD NO. 1	15,914
	"	USGEO-RSI/Volcanic Hazards - (Rose)	n/a	01WRAG0023-MOD NO. 1	1,442
	"	USGEO - Year 3 - Boreal Ecosystem	n/a	00CRAG0041-AMD 0002	<u>44,727</u>
					<u>87,858</u>
15.810	National cooperative geologic-mapping program	USGEO-Structural Mapping-Rocky Mtn	n/a	01HQAG0181-MOD NO. 02	<u>3,034</u>
U.S. DEPARTMENT OF TRANSPORTATION					
20.600	State and community highway safety	MIPOL-Dev Wntr Driv Safe Train/Manu	Michigan State Police	DE-03-02	<u>5,440</u>
NATIONAL SCIENCE FOUNDATION					
47.041	Engineering grants	NSF-Redesign Engg Education	n/a	EEC-9872533	1,734
	"	NSF-Redesign Engg Education	n/a	EEC-9872533	11,358
	"	NSF-Redesign Engg Education	n/a	EEC-9872533	15,661
	"	NSF-Redesign Engg Education	n/a	EEC-9872533	372
	"	NSF-Redesign Engg Education	n/a	EEC-9872533	2,476
	"	NSF-Hybrid Processes for Machining	n/a	DML-9875251-AMD 003	49,698
	"	NSF-Nanoindentation Testing System	n/a	CMS-9977462	6,921
	"	NSF - Gradient Theory: What is Next	n/a	CMS-9978758-AMD 001	24,022
	"	NSF-Redesign Engg Education	n/a	EEC-9872533	3,538
	"	NSF - REU-Hybrid Process for Machin	n/a	DML-9875251-AMD 003	356
	"	NSF/CLASM - Kinematic Coagulation	n/a	DML-0070088	113,371
	"	NSF-Projects to Assist Disabled	n/a	BES-0079969-AMD 007	17,368
	"	NSF - Instrumentation (MRI)	n/a	CMS-0079469	25,275
	"	NSF/CLASM-Selection Indstrl Coating	n/a	DML-0084903	155,467
	"	NSF-Hybrid Processes for Machining	n/a	DML-9875251-AMD 003	1,650
	"	NSF-REU-Projects to Assist Disabled	n/a	BES-0079969-AMD 007	7,948
	"	NSF/SFI-Metrics Envir Remediation	n/a	BES-0083112	15,276
	"	NSF - (REU) Kinematic Coagulation	n/a	DML-0070088	2,525
	"	NSF-Internal Condensing Flows	n/a	CTS-0086988-AMD 002	78,386
	"	NSF-Planar Magnetic Photonic Crystl	n/a	ECS-0115315-AMD 004	34,758
	"	NSF-Planar Magnetic Photonic Crystl	n/a	ECS-0115315-AMD 004	15,888
	"	NSF - P-N Junction Photocatalyst	n/a	BES-0102983-AMD 001	18,814
	"	NSF-(REU) Internal Condensing Flows	n/a	CTS-0086988-AMD 002	10,111
	"	NSF-Binding Mechanisms of Fly-Ash	n/a	BES-9802198-AMD 001	14,924

**Michigan Technological University**  
**Schedule of Expenditures of Federal Awards**  
**For the year ended June 30, 2003**

<u>Federal Agency/ CFDA#</u>	<u>Program title/major subdivision</u>	<u>Grant/contract title</u>	<u>Pass thru entity if applicable</u>	<u>Contract #</u>	<u>Expenditures</u>
	"	NSF-(REU/RET)-Photonic Crystals	n/a	ECS-0115315-AMD 004	\$ 6,171
	"	NSF - Integrated Machine-Tool	n/a	DMI-0225952-AMD 001	118,132
	"	NSF-GOALI: Design Extrusion Dies	n/a	DMI-0200091	53,625
	"	UNIVE-Sponsor Enter Engin Rsrch Cntr	University of Michigan	SUBCONTRACT # F004025	3,993
	"	UNIVE-WIMS Edu Tsk Participant Cost	University of Michigan	SUBCONTRACT # F004025	5,617
	"	UNIVE-WIMS Educ Tsk Sps	University of Michigan	SUBCONTRACT # F004025	44,185
	"	UNIVE-WIMS Mcr Tk Sprr Acc	University of Michigan	SUBCONTRACT # F004025	153,721
	"	UNIVE-Sensors Tsk Spnsr	University of Michigan	SUBCONTRACT # F004025	229,690
	"	UNIVE-WIMS Sponsor Adminis	University of Michigan	SUBCONTRACT # F004025	65,285
	"	COLUM-XYZ-On-A-Chip/Integration Tec	Columbia University	PO # 516843	27,091
	"	COLUM-XYZ-On-A-Chip/Integration Tec	Columbia University	PO # 516843	12,982
					1,348,389
47.049	Mathematical and physical sciences	NSF - FRG: Mechanical Instabilities	n/a	DMR-9972941-AMD 003	163,826
	"	NSF - FRG: Mechanical Instabilities	n/a	DMR-9972941-AMD 003	12,182
	"	NSF - FRG: Mechanical Instabilities	n/a	DMR-9972941-AMD 003	22,672
	"	NSF - Large-Scale Optimization	n/a	DMS-9973308-AMD 002	3,843
	"	NSF-Generalized Ensemble Algorithms	n/a	CHE-9981874	70,682
	"	NSF-Stretched Dihydrogen Ligand	n/a	CHE-0079158	13,303
	"	NSF-Bound & Continuum Properties	n/a	PHY-0097111-AMD 002	16,405
	"	NSF-Model for Polymeric Fluids	n/a	DMS-0096847	27,020
	"	NSF-REU/Understand Temporal Unvers	n/a	AST-9701716-AMD 003	12,340
	"	NSF-Adaptive Optical Telescopes	n/a	AST-0123466	22,729
	"	NSF-ITR: Computing Sky in Real Time	n/a	AST-0218991	33,785
	"	NSF-RSI/Deep Circumstellar Imaging	n/a	AST-9618803-AMD 006	5,893
					404,680
47.050	Geosciences	NSF - AD 260 Eruption-Lake Ilopango	n/a	EAR-9903291	44,565
	"	NSF-Laboratory Studies of Clouds	n/a	ATM-9984294-AMD 003	105,317
	"	NSF-RSI-Correlated Stochastic Proc.	n/a	ATM-0106271-AMD 002	84,543
	"	NSF-RSI/Volcanic Cloud-Atmosphere	n/a	EAR-0106875-AMD 003	135,320
	"	NSF-RSI/Volcanic Cloud-Atmosphere	n/a	EAR-0106875-AMD 003	200
	"	NSF-RSI/Nitrogen Oxides-N. Atlantic	n/a	ATM-0215843	117,713
	"	NSF-RSI/Magnitude Turbidity Plumes	n/a	OCE-9726680-AMD 003	15,562
	"	NSF-RSI/Magnitude Turbidity Plumes	n/a	OCE-9726680-AMD 003	41,875
	"	NSF-RSI/Impact of Keweenaw Current	n/a	OCE-9712872-AMD 005	46,097
	"	NSF-RSI/Impact of Keweenaw Current	n/a	OCE-9712872-AMD 005	15,859
	"	NSF-RSI/Impact of the Keweenaw Current	n/a	OCE-9712872-AMD 005	16,436
	"	NSF-RSI/Impact of Keweenaw Current	n/a	OCE-9712872-AMD 005	111,402
	"	NSF-RSI/Impact of the Keweenaw Current	n/a	OCE-9712872-AMD 005	33,148
	"	NSF-RSI/Impact of the Keweenaw Current	n/a	OCE-9712872-AMD 005	22,521
					790,558
47.070	Computer and information - science and engineering	NSF - Computational Facilities	n/a	EIA-9871133	62,136
	"	NSF-CAREER: Distributed Computation	n/a	CCR-9984682-AMD 003	54,176
	"	NSF - SGER: Interconnect Problem	n/a	CCR-0086609-AMD 003	34,676
	"	NSF-CSERI/CAREER: Air Quality Model	n/a	ACI-0093139-AMD 001	37,405
	"	NSF-(REU) SGER:Interconnect Problem	n/a	CCR-0086609-AMD 003	6,392

**Michigan Technological University  
Schedule of Expenditures of Federal Awards  
For the year ended June 30, 2003**

<u>Federal Agency/ CFDA#</u>	<u>Program title/major subdivision</u>	<u>Grant/contract title</u>	<u>Pass thru entity if applicable</u>	<u>Contract #</u>	<u>Expenditures</u>
	"	NSF - CAREER: Memory Controller	n/a	CCR-0133777-AMD 001	\$ 54,506
	"	NSF - Optimization DSP Architecture	n/a	CCR-0209036	85,191
	"	NSF-(REU)- CAREER:Memory Controller	n/a	CCR-0133777-AMD 001	3,055
	"	NSF - CAREER:Signal Processing Rsch	n/a	CCR-0238174	12,960
	"	NSF - US-Russian Collaborative Rsch	n/a	CCR-0310632	16,431
					366,928
47.074	Biological sciences	NSF-Multi-trophic Level Dynamics	n/a	DEB-9903671-AMD 003	57,264
	"	NSF-Major Research Instrumentation	n/a	DBI-0079566	100,307
	"	NSF - Plant-Microbe Interactions	n/a	DEB-0075397-AMD 006	263,842
	"	NSF - Aquatic Food Webs	n/a	DEB-0083731-AMD 002	20,289
	"	NSF - Aquatic Food Webs	n/a	DEB-0083731-AMD 002	28,505
	"	NSF - Plant-Microbe Interactions	n/a	DEB-0075397-AMD 006	55,488
	"	NSF-Multi-trophic Level Dynamics	n/a	DEB-9903671-AMD 003	7,316
	"	NSF-Exopolymer Prod-Benthic Diatoms	n/a	IBN-0110875-AMD 004	82,855
	"	NSF - (REU) Exopolymer Production	n/a	IBN-0110875-AMD 004	4,214
	"	NSF-(REU) Plant-Microbe Interaction	n/a	DEB-0075397-AMD 006	3,924
	"	NSF-Modern Methods Wrkshp-Madison	n/a	DBI-0231109	2,360
	"	NSF-Participant Costs-Methods Wkshp	n/a	DBI-0231109	5,736
	"	NSF-PBC/CAREER:Cellulose Biosynthes	n/a	IBN-0236492	9,001
					641,101
47.075	Social, behavioral and - economic sciences	NSF-Monitoring Tech/Pollution Cntrl	n/a	SES-9817913	1,167
	"	NSF-Volcanoes-Guatemala/El Salvador	n/a	INT-0118587	16,433
	"	NSF - U.S.-Argentina Planning Visit	n/a	INT-0112718	5,849
	"	NSF-RSI/US-Azores Co-op Study	n/a	INT-0110397	51,356
	"	NSF - US-Egypt Co-Op Research	n/a	INT-9809889-AMD 001	30,268
	"	NATIO-Devel Codes Genetic Access	National Research Council	9/18/01 AGREEMENT	4,222
					109,295
47.076	Education and human resources	NSF-Code Generation for ILP	n/a	CCR-9870871-AMD 003	1,482
	"	NSF/SFI-Experiential Learning Module	n/a	DUE-9950506-AMD 001	29,351
	"	NSF-Geology Utah's Nat'l Parks	n/a	DUE-9950213-AMD 001	134,324
	"	NSF - MTU Grad Teaching Fellows	n/a	DGE-9979572-AMD 003	6,829
	"	NSF - MTU Grad Teaching Fellows	n/a	DGE-9979572-AMD 003	15,390
	"	NSF - MTU Grad Teaching Fellows	n/a	DGE-9979572-AMD 003	4,999
	"	NSF - MTU Grad Teaching Fellows	n/a	DGE-9979572-AMD 003	57,071
	"	NSF-X-Ray Diffractometry Applicatio	n/a	DUE-9950729	2,882
	"	NSF - MTU Grad Teaching Fellows	n/a	DGE-9979572-AMD 003	3,636
	"	NSF - Concurrent Computing	n/a	DUE-9952509-AMD 001	17,833
	"	NSF - Concurrent Computing	n/a	DUE-9952509-AMD 001	5,879
	"	NSF/SFI - Engg in Pre-College Ed	n/a	DUE-9953189 AMD 002	188,266
	"	NSF-GK-12 Supplement:Trvl-Malaysia	n/a	DGE-9979572-AMD 003	1,712
	"	NSF-Op Lab/Simulation Ctr-Envir Eng	n/a	DUE-0088282	57,397
	"	NSF-Eng Pre-College Participant Cst	n/a	DUE-9953189 AMD 002	16,770
	"	NSF-Integrate Computing w/Geometry	n/a	DUE-0127401	137,046
	"	NSF-Computer Instrumentation-Visual	n/a	DUE-0127025	45,288
	"	UNIVE-Great Lks Wood Manuf Partners	University of Minnesota - Duluth	1638-187-6487-7901	7,690
	"	TENNE-Teachers' Earth Sci Inst	Tennessee Technological Univ.	PO # C13489	47,798
					781,643

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47.078	Polar programs	NSF/RSI-Photochemical Transformation	n/a	OPP-9907197-AMD 004	\$ 23,476
U.S. ENVIRONMENTAL PROTECTION AGENCY					
66.469	Great Lakes program	EPA - Development of SOLEC Land Use	n/a	GL-97560101-0	7,516
66.500	Environmental protection - consolidated research	EPA/SFI-Environmental Remediation	n/a	CR-82661401-AMD 3	15,407
	"	EPA-Ecosystem Response to Climate	n/a	CR-82794001-AMD 1	11,616
	"	CONSO-Sponsor Design Promotors	Consortium for plant biotech research	EPA82947901-129	15,680
					42,703
U.S. DEPARTMENT OF ENERGY					
81.035	Unknown	USENE-Improvement of Wear Component	n/a	DE-FC26-01NT41055-AMD A002	56,320
	"	USENE-Improvement of Wear Component	n/a	DE-FC26-01NT41055-AMD A002	18,772
	"	USENE-Comminution Circuit Thru-put	n/a	DE-FC2626-01NT41062-AMD M002	81,913
					157,005
81.036	Inventions and innovations	USENE-Enabling Tool for Glass		DE-FG36-02G012062	38,052
81.049	Office of science financial assistance	USENE-Forest Atmosphere Carbon Trsf	n/a	DE-FG02-95ER62125-AMD A014	235
	"	USENE-YEAR 1-Aspen FACE-FACTS II	n/a	DE-FG02-95ER62125-AMD A014	212
	"	USENE-PBC/Reg Guaiacyl-YEAR 1	n/a	DE-FG02-01ER15179-AMD A001	21,918
	"	DOE-Year 10-Hyperfine Structure	n/a	DE-FG02-92ER14282-AMD A011	49,190
	"	USENE-YEAR 2-Aspen FACE-FACTS II	n/a	DE-FG02-95ER62125-AMD A014	646,832
	"	USENE-PBC/Reg Guaiacyl-YEAR 2	n/a	DE-FG02-01ER15179-AMD A001	61,782
	"	DOE-Year 11-Hyperfine Structure	n/a	DE-FG02-92ER14282-AMD A011	43,503
	"	USENE-YEAR3-Aspen FACE-FACTS II	n/a	DE-FG02-95ER62125-AMD A014	338,670
	"	UNIVE-Syn/Fac Reg Carb Cyclin	University of California - Davis	MTU/901214-03	73,208
	"	MICHI- Below Grnd Plants/Soil	University of Michigan	V51573/F000354 AMEND 9	159,534
					1,395,084
81.086	Conservation research and - development	USENE-Grad Auto Tech Ed (GATE) Prgm	n/a	DE-FC36-98CH10951-AMD M006	7,554
	"	USENE-Recycle/Reuse Aluminum Wastes	n/a	DE-FC07-98ID13663-AMD NO. M004	39,142
	"	USENE-ADV ACCT-PBC/Genetic Augment	n/a	DE-FC36-01GO10617-AMD A003	66,570
	"	USENE-ADV ACCT-PBC/Genetic Augment	n/a	DE-FC36-01GO10617-AMD A003	2,318
	"	USENE-Tubes-Production of Ethylene	n/a	DE-FC36-01HD14255-AMD M003	235,157
	"	USENE-Novel Direct Steel Making	n/a	DE-FC36-01HD14209-AMD M003	258,096
	"	USENE-Novel Direct Steel Making	n/a	DE-FC36-01HD14209-AMD M003	50,709
	"	USENE-Ignition Improvement-Lean Gas	n/a	DE-FC26-02NT41443-AMD A001	7,747
	"	USENE-Ignition Improvement-Lean Gas	n/a	DE-FC26-02NT41443-AMD A001	41,266
	"	USENE-Microwave Assisted Electrolyt	n/a	DE-FC36-02ID14402-AMD M002	7,018
	"	USENE-Microwave Assisted Electrolyt	n/a	DE-FC36-02ID14402-AMD M002	17,395
	"	USENE-Steelmaking Slag Iron Content	n/a	DE-FC36-01HD14046-AMD M004	152,176
	"	USENE-Steelmaking Slag Iron Content	n/a	DE-FC36-01HD14046-AMD M004	121
					885,269

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81.087	Renewable energy - research and development	CONSO-PBC-Design Promoter for Preci	Consortium for plant biotech research	AGR # OR22072-121	\$ 12,546
81.089	Fossil energy research - and development	USENE-Calibration/Test Sonic Stimul	n/a	DE-FC26-01BC15165	<u>172,474</u>
81.107	Unknown	USENE-YR1/YR2-Shallow Carbon Rsvr.	n/a	DE-FC26-00BC15122-AMD M002	62,156
	"	USENE-YR3/YR4-Shallow Carbon Rsvr.	n/a	DE-FC26-00BC15122-AMD M002	283,436
	"	USENE-Implementing Cyclic CO2 Flood	n/a	DE-FC26-02NT15441-AMD A002	<u>75,951</u>
					<u>421,543</u>
FEDERAL EMERGENCY MANAGEMENT AGENCY					
83.548	Hazard mitigation grant	MIPOL-Devel Composite Shear Wall	Michigan State Police	FEMA-1346-DR-MI	<u>12,434</u>
U.S. DEPARTMENT OF EDUCATION					
84.200	Graduate assistance in areas of - national need	USEDU-YEAR 1 GAANN:Geology Fellows	n/a	P200A000420-02 ACTION NO. 03	42,842
	"	USEDU/SFI-YR2 GAANN:Env Engg Fellow	n/a	P200A000425-02 ACTION NO. 03	45,810
	"	USEDU-YEAR1 GAANN:Engine Fellowship	n/a	P200A010413-03-ACTION NO. 06	42,842
	"	USEDU/SFI-YR3 GAANN:Env Engg Fellow	n/a	P200A000425-02 ACTION NO. 03	77,369
	"	USEDU-YEAR 3 GAANN:Geology Fellows	n/a	P200A000420-02 ACTION NO. 03	99,234
	"	USEDU-YEAR2 GAANN:Engine Fellowship	n/a	P200A010413-03-ACTION NO. 06	<u>61,264</u>
					<u>369,361</u>
U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES					
93.390	Academic research enhancement award	NIH-Gender & Orthostatic Tolerances		1 R15 HL67787-01	<u>31,715</u>
93.821	Cell biology and biophysics research	NIH-Structural Transitions-Proteins		1 R01 GM062838-01A2	<u>3,451</u>
93.866	Aging research	NIH-Mechanosensory Signal in Muscle		1 R03 AG20370-01	<u>8,018</u>

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<b>RESEARCH AND DEVELOPMENT CLUSTER - CFDA # NOT AVAILABLE - DIRECT AWARDS</b>					
U.S. DEPARTMENT OF THE INTERIOR					
National Park Service	USPAR-Archaeol. Survey, Coal Creek		n/a	H6310010001 - J9840030127/015	\$ 3,149
"	USPAR-Moose Browsing/Fire Regime		n/a	1143CA631095004-MOD 0007	7,135
"	USPAR-Geographic Information System		n/a	1443CA631096001-MOD 1,3,5,6,7	17,569
"	USPAR-Moose Browsing/Fire Regime		n/a	1443CA6310A001-TASK001-MOD004	30,245
"	USPAR - IRI-Isle Royale Institute		n/a	H6310010001-TASK 001-MOD 004	9,801
"	USPAR-Quincy Smelter Photo-Document		n/a	H6310010001-TASK AGRMT004-MOD1	3,180
"	USPAR-Geographic Information System		n/a	H6310010001-TASK #003-MOD #1	2,887
"	USPAR-Keane Wndr Cmplx-Death Valley		n/a	H6310010001-TASK AGRMT NO. 006	7,447
"	USPAR-Great Lakes Inventory Netwrk		n/a	H6310010001-TASK AGRMT NO. 005	281
"	USPAR-Kew. National Historical Park		n/a	H6310010001-TASK 007-MOD 001	68,315
"	USPAR - IRI-Isle Royale Institute		n/a	H6310010001-TASK 001-MOD 004	60,000
"	USPAR-Isle Royale-Leave No Trace		n/a	CHECK # 4840-013426	1,280
"	USPAR - Year 2 - Bio Diversity SLBE		n/a	H6310010001-TASK 002-MOD 004	76,732
"	USPAR-Loon Monitoring-Isle Royale		n/a	H6310010001-TASK 011-MOD 2	39,180
"	USPAR-Bats in Great Lakes Network		n/a	H6310010001-TASK AGRMT NO. 012	15,584
"	USPAR - Wolf-Moose Monitoring-2003		n/a	H6310010001 - J631003N003/013	36,479
"	YELLO-Clean Snowmobile 03 - KRC		n/a	P1571032009	1,920
"	USPAR-MTTI-Kew Ntl Transport System		n/a	H6310010001 - J641003K226/014	9,555
					390,739
U S Fish & Wildlife	USFIS-Assessment of Lake Sturgeon		n/a	AGRMNT NO. 301811J205	35,467
U.S. DEPARTMENT OF AGRICULTURE					
U.S. Forest Service	USAGR-Archaeol Coll-Hiawatha Nat'l		n/a	00-CS-110910-00-42	365
"	USAGR-Archaeol Collect-Ottawa Nat'l		n/a	01-CS-11090700-005-MOD NO. 3	771
"	USAGR-Archaeol Coll-Hiawatha Nat'l		n/a	03-CS-110910-00-17	570
"	USAGR-StreamswEEPing ElvOy Creek		n/a	03-CS-11091313-006	1,741
"	USAGR - NDE Methods		n/a	PNW03-DG-11261975-137	176
"	USAGR-Timber Bridge-Extended Study		n/a	97-RJVA-2958	51
"	USAGR-Teakettle Experimental Forest		n/a	PSW-98-011-RJVA-AMD 5	7,924
"	USAGR-Openland Avifauna-Mich. U.P.		n/a	23-98-43-RJVA-AMD 1	943
"	USAGR-Carbon Storage in Forests		n/a	00-JV-11231300-086	180
"	USAGR-Chip Yield of Jack Pine		n/a	00-JV-11111132-119-AMD NO. 1	8,288
"	USAGR-Silver vs Red Maple Property		n/a	00-JV-11111133-149-AMD NO. 3	7,465
"	USAGR-Healthy/Diseased Spruce Trees		n/a	00-JV-11111132-121-AMD NO. 2	6,503
"	USAGR-Strength of Timber Bridges		n/a	01-JV-11111132066-AMD NO. 1	24,704
"	USAGR-Strength of Timber Bridges		n/a	01-JV-11111132066-AMD NO. 1	5,929
"	USAGR-Response of Timber bridges		n/a	01-JV-11111132-078	4,958
"	USAGR-Carbon Allocation-Red Pine		n/a	01-JV-11231300-071	2,667
"	USAGR-Above-Ground Crbn Allocation		n/a	01-JV-11231300-074	3,805
"	USAGR - Manage FACE Experiment		n/a	01-JV-11231300-085-MOD NO. 4	53,948
"	USAGR-Carbon & Nitrogen Dynamics		n/a	01-JV-11231300-072-MOD NO. 2	43,903
"	USAGR-Mapping Fire Location/Extent		n/a	01-JV-11231300-098-MOD NO. 3	28,463
"	USAGR-Wood Decomposition by Environ		n/a	01-JV-11222062-242-AMD NO. 2	99,518
"	USFOR-Aerial Photos-Ottawa Nat'l.		n/a	43-54A7-1-0061	7,814
"	USAGR-Dir Northern Ecosystem-Year 2		n/a	IPA AGREEMENT 8/24/00	22,311
"	USAGR-Bio & Earth Sciences Session		n/a	53-43ZP-2-37	41,115
"	USAGR-Ponderosa Pine in Black Hills		n/a	02-CS-11020300-037	4,856

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"	"	USFOR-Historical & Modern Forest	n/a	02-CS-11090700-013-MOD NO. 1	\$ 54,397
"	"	USAGR-Mapping Fire Location/Extent	n/a	01-JV-11231300-098-MOD NO. 3	76,737
"	"	USAGR-Increase Atmospheric CO2 & O3	n/a	03-JV-11231300-053	2,275
"	"	USAGR-Mgmt Local Scour-Stream Rehab	n/a	AGRMT NO. 58-6408-3-0002	410
"	"	USPAR-Aerial Imagery, Keweenaw NHP	n/a	H6310010001-TASK AGRMT NO. 010	4,000
					516,787
U.S. DEPARTMENT OF DEFENSE					
Department of the Army	TACOM - Surge WD001		n/a	DAAE07-00-C-L052-MOD WD 2,3,4	1,946
"	TACOM-Develop Capillary Pumped Loop		n/a	IPA 11/07/00	7,520
"	TACOM - FMTV Dump Body Analysis		n/a	DAAE07-01-C-L520-MOD A00003	357,854
"	TACOM - FMTV Dump Body Analysis		n/a	DAAE07-01-C-L520-MOD A00003	20,306
"	TACOM-ADV ACCT-Surge WD006 & WD008		n/a	DAAE07-00-C-L052-MOD WD 6, 8	79,054
"	TACOM - Surge WD007		n/a	DAAE07-00-C-L052-MOD P00007	41,654
"	TACOM - Surge Work Directive 011		n/a	DAAE07-00-C-L052-MOD WD11/WD13	348,361
"	TACOM - Surge - Work Directive 012		n/a	DAAE07-00-C-L052-MOD WD012	101,131
"	TACOM - SAE Clean Snowmobile Report		n/a	DAAE07-03-P-L694	3,866
"	USARM-Crystalline-Amorphous W-Based		n/a	DAAD19-00-1-0103-MOD P00002	12,436
"	USARM-Testing of Amorphous Metals		n/a	DAAD19-01-1-0492-MOD P0002	60,671
"	USARM-RSI-ADV ACCT-ECBC Hyperspectr		n/a	DAAD05-02-P-0588-MOD P00001	31,672
"	USARM-RSI/Rainfall Hydrologic Rsch		n/a	DACW35-02-P-0089-MOD P00002	44,596
"	USARM-Wear Characterization		n/a	DAAD17-02-P-0446-MOD P0004	15,771
					1,126,838
Department of the Army - US cold region	USARM (CRREL)-Antarctic Shear Zone		n/a	DACW42-03-P-0033-MOD 0001	34,910
Department of the Navy	NAVAL-Fungal Decay Resistance		n/a	N47408-98-M-3017-MOD P00001	179
"	USNAV-Wear Tests on Center Guides		n/a	N00167-01-M-0621-MOD P00003	1,819
"	USNAV - Field Termite Test		n/a	N47408-01-P-6478	2,571
					4,569
U.S. DEPARTMENT OF TRANSPORTATION					
Federal Aviation Administration	FAA-Elastometric Anti-Icing Overlay		n/a	DTFA0302P10212-REVISION NO. 1	28,948
Federal Highway Administration	USTRA-YEARS 1-4-Tribal Tech Ast Prg		n/a	DTFH61-99-X-00011-AMD 6	167,357
"	USTRA-Aggregate Rsch for Pavements		n/a	DTFH61-02-C-00074-TSK ORDER #1	9,017
"	USTRA-YEAR 5-Tribal Tech Asst Prgm		n/a	DTFH61-99-X-00011-AMD 6	100,201
					276,575
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION					
n/a - no subdivisions	NASA-L Superior Ice Field Measureme		n/a	NAG5-7051-SUPPL 0005	3,768
"	NASA-CSERI/Earth & Space Sciences		n/a	NAG5-8796-SUPPL 0006	135,823
"	NASA - Gravity Induced Settling		n/a	NAG8-1478-SUPPLEMENT 06	24,575
"	NASA-RSI/Lab Studies Ice Nucleation		n/a	NAG5-10568-SUPPLEMENT 0002	83,788
"	NASA-Validation of TOMS Vol Aerosol		n/a	NAG5-11062-SUPPL 0003	86,892
"	NASA-YEAR 1-Gas-Turbine Combustor		n/a	NAG3-2759-SUPPL NO. 1	47,435
"	NASA-Next-Generation Ion Engines		n/a	NCC3-1030	13,881
"	NASA-RSI-Dvlpmnt L-Band Radiometer		n/a	NAG5-12770	1,133

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"	"	NASA-CSERI/Evaluate ESTO CT Project	n/a	NAG5-13385	\$ 27,048
"	"	NASA-YEAR 2-Gas-Turbine Combustor	n/a	NAG3-2759-SUPPL NO. 1	18,626
"	"	NASA-RSI/Topographic Influences	n/a	NAG5-12690	26,907
					469,876
<b>NATOINAL SCIENCE FOUNDATION</b>					
n/a - no subdivisions	"	NSF - IPA Assignment - Year 1	n/a	EEC-0138959-0001	42,260
"	"	NSF - Rebecca Petteys Fellowship	n/a	DGE-0004144-AMD 003	32,327
"	"	NSF - IPA Assignment - Year 2	n/a	EEC-0138959-0001	132,526
					207,113
<b>U.S. DEPARTMENT OF ENERGY</b>					
n/a - no subdivisions	"	USENE-Calibration Seismic Attribute	n/a	DE-AC26-98BC15135-MOD M005	28,738
"	"	USENE - Fractured Reservoirs	n/a	DE-AC26-98BC15100-MOD M005	28,495
"	"	USENE - IPA-Geophysical Imaging	n/a	M6ER15124	42,150
"	"	USENE-RSI / Year 4 - High Energy	n/a	DE-FG02-99ER41107-AMD A004	162,032
"	"	USENE-RSI / Year 5 - High Energy	n/a	DE-FG02-99ER41107-AMD A004	56,609
"	"	USENE - IPA-Geophysical Imaging	n/a	IPA DATED 09/29/02	101,621
					419,645
<b>RESEARCH AND DEVELOPMENT CLUSTER - PASS THROUGH PROGRAMS - NO CFDA# AVAILABLE</b>					
<b>U.S. DEPARTMENT OF TRANSPORTATION</b>					
Federal highway Administration	"	MITRA-TC-MERL-2002/2003	Michigan department of transportation	JOB # 72377	22,020
"	"	MITRA-Vehicle/Road Surface Noise	Michigan department of transportation	54632/579930	34,457
"	"	MITRA-TC 2002 Video Prod	Michigan department of transportation	JOB # 59007	33,584
"	"	MITRA-MTTI 2003 MDOT Video	Michigan department of transportation	JOB # 725650	77,889
"	"	MITRA-TC-01 Michigan Crash Location	Michigan department of transportation	40617C	23,438
"	"	MITRA-TC Phase II Spec for Hot Mix	Michigan department of transportation	JOB # 568080/549570/00-MTU-5-1	120,068
"	"	MITRA-TC-Min Char/Catalog	Michigan department of transportation	JOB56708/56809/01-MTU-10-1,2,3	15,845
"	"	MITRA-TC-Sponsor Trans Matls Rsrch	Michigan department of transportation	JOB # 567820 02-MTU-1	46,223
"	"	MITRA-TC-2002 MDOT Research Record	Michigan department of transportation	JOB# 56789/02-MTU-3	7,667
"	"	MITRA-TC-Cntr Structural Durability	Michigan department of transportation	JOB # 567830 02-MTU-2	7,734
"	"	MITRA-TC-Ana Bit Pvmnt Srfee	Michigan department of transportation	590470/00-MTU-4-2	10,727
"	"	MITRA-TC-Ana Bit Pvmnt Srfee	Michigan department of transportation	590470/00-MTU-4-2	839
"	"	MTRM-MTTI-Spnsr Cntr Struct Durab	Michigan department of transportation	JOB#567830/03-MTU-4	11,882
"	"	MITRA-MTTI-Spnsr-Tran Materials Rsrch	Michigan department of transportation	JOB # 567820/03-MTU-3	67,085
"	"	MITRA-MTTI-2003 Research Record	Michigan department of transportation	JOB # 56789	14,965
"	"	MITRA-MTTI-Devel Steel Beam End Det	Michigan department of transportation	JOB # 74455/03-MTU-7	23,582
"	"	MITRA-TC-Resil Mod Test MI Aggr	Michigan department of transportation	02-MTU-8	66,573
"	"	MITRA-MTTI-Causes/Cures Crck Brdge	Michigan department of transportation	JOB # 5995902-MTU-1	26,115
"	"	MITRA-Mechanical Properties of Rock	Michigan department of transportation	JOB # 51442D/02-MTU-6	3,956
"	"	MITRA-TC-Pre Inves Role/Con Degr	Michigan department of transportation	56865/02-MTU-7	23,084
"	"	MITRA-MTTI-Phase I -Risk Asses I-96	Michigan department of transportation	JOB # 568650	8,933
"	"	MITRA-TC-2002 Roadsoft	Michigan department of transportation	JOB # 59326	311,095
"	"	MITRA-TC-2002 LTAP	Michigan department of transportation	59323,59324,59325	171,318
"	"	MITRA-MTTI-LTAP 2003	Michigan department of transportation	JOB # 73523/73524/73525	108,681
"	"	MITRA-TC-Main/Electr 802P Syst	Michigan department of transportation	JOB # 60295	10,567



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"	"	MITRA-Log Truck Security Study	Michigan department of transportation	JOB # JN56836	\$ 40,643
"	"	MITRA-TC-Log Truck Security Study	Michigan department of transportation	JOB # JN56836	9,579
"	"	MITRA-TC-5 County Pro-Test 00-01	Michigan department of transportation	JOB # 60427	59,826
"	"	MITRA-TC-Optim Cost/Perf Sign Struc	Michigan department of transportation	JOB # 56886-2	41,513
"	"	MITRA-MITTI/Steel Overhead Sign Sup	Michigan department of transportation	JOB # 56893	21,710
"	"	MITRA-MITTI-Roadsoft 2003	Michigan department of transportation	MTU 1996-AUTHORIZATION Z-M13	232,766
"	"	MITRA-MITTI-Phase 1 CPR 2003	Michigan department of transportation	JOB # 6003/CONTRACT 1996-5434	5,238
"	"	UNIVE-MITTI-MI HPMS Train/Publishing	Michigan department of transportation	PO # 591N3006372	865
"	"	SOUTH-MITTI-Lng Effects Mag Magnes	South Dakota department of transportation	CONTRAT # 310802	77,778
"	"	WITRA-Eval Meth Air Void Sys Paving	Wisconsin department of transportation	PROJECT ID 0092-03-16	6,073
"	"	NATIO-TC-Durability of Early-Openin	National transportation research board	HR 18-04B	76,804
					1,821,122
U.S. DEPARTMENT OF DEFENSE					
Unknown	"	COMPA-Ref Implement Univ Parallel C	Compac computer corporation	PO-YU406429	164
"	"	COMPA-CSERI-ADV ACCT-Impl/Univ ParC	Compac computer corporation	PO YU 406429 AMENDMENT # 1	115,329
"	"	Confidential Research Agreement		PO # PL00100942 1-3 AN	4,741
"	"	Confidential Research Agreement		PO # PL00100942 1-3 AN	8,928
"	"	PRATT-Accelerated Insertion of Mate	Pratt and Whitney	PO # F819741 SUP 1 & 2	76,102
"	"	THEM-3 D Voxel-Base Bio-Ht Tnsfr Cd	Thermoanalytics Inc.	TAI-02-0325	56,987
"	"	UNITE-Crusader Track Comp/Sprg Test	United Defense LP	PT17003-00	3,156
Department of the Air Force	"	JOHNS-Mech Alloy'g Oxide Dispersion	Johns Hopkins University	SUB CONTRAT # 8201-16748	34,323
"	"	UNIVE-Atmos Prop Hgh Eng Laser	UCLA	0205-G-DB131	293,384
Department of the Army	"	PHYSI-RSI-Detection of Liquids Long	Physical Science Inc.	SUBCONTRACT DAAD13-02-P-0053	17,706
"	"	UNITE-T130E1 Long Bushing Tests	United Defense LP	PO # PT16837-00	2,118
"	"	UNIVE-Th/3JJ MTU Eng Rsch	University of Wisconsin - Madison	109G421 MOD # 1 & 2	61,090
"	"	UNIVE-Thrst 2 MTU Eng Rsch	University of Wisconsin - Madison	109G421 MOD # 1 & 2	43,522
"	"	UNIVE-Thrst 1 MTU Eng Rsch	University of Wisconsin - Madison	109G421 MOD # 1 & 2	76,868
"	"	UNIVE-Thrs/3SB Ch Eng Rsch	University of Wisconsin - Madison	109G421 MOD # 1 & 2	52,609
"	"	UNIVE-Ths/3SB Bio Eng Rsch	University of Wisconsin - Madison	109G421 MOD # 1 & 2	41,557
"	"	ACADE-2002 Research/Engin Apprentic	Academy of Applied Science	LETTER 6/4/02/CHK#4025	1,672
"	"	AMGEN-Perf/Dur 3 Snow Tire Chains	AM General Corporation	PO # 0515536WA	65,091
"	"	DYNAM-ightwght Durable Titan Trks	Dynamet Technology Inc.	PO # 8809-2027 PHASE I	1,132
"	"	GENER-Engin Support GDLS	General Dynamics	PO# MET 001808 MODS 1-5	6,548
"	"	GSENG-MIA2 SEP Eng Shock/Vibra Tst	GS Engineering	AGREEMENT #020916/PO # 10002	78,863
"	"	GSENG-LV 100 Eng/MIA@ Integration S	GS Engineering	PO# 1013/GSE AGREEMETN #30520	696
"	"	LESCO-MWO 9-2330-390-35-1	LESCO	PO # 5600-021-001	55,620
"	"	LESCO-MWO 9-2330-390-35-1	LESCO	PO # 5600-0126-001	67,669
"	"	MATER-Dura Improv Lghtwght GHT Trk	Materials and Electrochemical Research Co.	SUBCONTRACT # 59091	12,151
"	"	NORTH-Task 2.0 Survivability Tech	Northrop Grumman Mission Systems	PO # 4600014912	14,988
"	"	NORTH-Task 1.3 Survivability Techno	Northrop Grumman Mission Systems	PO # 4600014912	132,505
"	"	NORTH-Task 1.2 Survivability Techn	Northrop Grumman Mission Systems	PO # 4600014912	11,228
"	"	THERM-Mobil & Vehicle Design Wkstat	Thermoanalytics Inc.	E10510	3,281
"	"	THERM-Mobility SBIR 1	Thermoanalytics Inc.	SUB # TAI-03-0218	3,450
"	"	THERM-Vehicle Design	Thermoanalytics Inc.	PO # TAI-01-0326/MOD 2/MOD 3	204,192
"	"	THERM-CUBI Test Unit	Thermoanalytics Inc.	TAI-02-0621/E10161	15,313
"	"	TRWSY-Survivability Tech	TRW Systems and Information Tech Group	PO # 4600011809	2,508
"	"	UNITE-ADV ACCT-Comp Bush Dur Tst	United Defense LP	PT17129-00	14,133
"	"	UNITE-MI Carrier Design	United Defense LP	PO # PT 16913-00	5,627
"	"	UNITE-MI Track Vib Surv Yuma 2002	United Defense LP	PT 16979-00	263,432
					1,848,683

**Michigan Technological University**  
**Schedule of Expenditures of Federal Awards**  
**For the year ended June 30, 2003**

<u>Federal Agency/ CFDA#</u>	<u>Program title/major subdivision</u>	<u>Grant/contract title</u>	<u>Pass thru entity if applicable</u>	<u>Contract #</u>	<u>Expenditures</u>
U.S. DEPARTMENT OF AGRICULTURE					
Unknown	"	NORTH-Utilization of Red Maple	Northern Initiatives	SERVICE AGREEMENT # S0125	\$ 3,205
"	"	MINNE-Study Locate Decayed Timber	University of Minnesota-Duluth	1637-187-6456-7901	7,143
"	"	UNIVE-Entomology/Pathology Data Col	University of California at Berkeley	AGREE SA3630/PO#1-0000608856	6,111
"	"	MINAT-Tech Trails Model Forest	Michigan Department of Natural Resources	0EG 03-6	1,980
					18,439
U.S. DEPARTMENT OF THE INTERIOR					
U.S. Fish and Wildlife Service	"	MINAT-Gry Wof Pop Mod/Est	Michigan Department of Natural Resources		52,058
"	"	MINAT-2002- Gray Wolf in Michigan	Michigan Department of Natural Resources	149-02	20,405
					72,463
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION					
n/a - no subdivisions	"	JETPR-Corona Testbed Metrology	Jet Propulsion Laboratory	CONTRACT # 1234467	10,873
"	"	RAYTH-Support to Hubble Space Teles	Raytheon Company	PO # 083495 ITEM 6 & 7	21
"	"	UNIVE-Model Funct Graded Materials	University of Michigan	CHECK # 655990	3,340
"	"	UNIVE-Stdy Magnete Fld Interaction	University of Michigan	CHECK # 655990	4,214
"	"	UNIVE-Organ Polymers Lign Dsgn/App	University of Michigan	CHECK # 655990	5,000
"	"	UNIVE0-Web Instrution for Engineers	University of Michigan	CHECK # 655990	3,200
"	"	UNIVE-Effic/Inceas Heat Shock	University of Michigan	CHECK # 655990	2,773
"	"	UNIVE-Rout Process of Terr & Therm	University of Michigan	CHECK # 465763	925
"	"	UNIVE-Muscle Plas DuringIncreased	University of Michigan	CHECK # 465763	448
"	"	UNIVE-K Schreck-Gr Lks Rm Sens Eval	University of Michigan	CHECK # 655990	1,520
"	"	UNIVE-Edu Astron Cosomos Web Site	University of Michigan	CHECK # 834013	240
"	"	UNIVE-New Bifunct Cat Carb/Diox Rec	University of Michigan	CHECK # 834013	226
"	"	UNIVE-Infra Spectro Ice Nucleation	University of Michigan	CHECK # 834013	8
					32,788
U.S. DEPARTMENT OF ENERGY					
n/a - no subdivisions	"	DETRO-Low Emissions After Treatment	Detroit Deisel Corp.	PO # 41855 MOD 2	498
"	"	FIRMI-RSI Auger Observatory Souther	FERMILAB	PO 521464	109,773
"	"	HUNTI-Transient Liquid Phase of ODS	Hunington Alloys/Special Metals	PO# 222976	23,937
"	"	JOHND-Model Partic Trap/Diesel Eng	John Deere	PO #854058PE	56,511
"	"	PACIF-PERC-Par Est/Advan/Trns Mdls	Pacific Engineering corp	CONT # 00001136	34,416
"	"	SANDI-Shp Crn Model/Cntrl	Sandia National Labs	PO # 2854	14,380
"	"	TOUCH-Fuel Cell Elect & Batteries	Touchtone Research Laboratory	DE-FG02-00ER31112-MTU0001	76,277
"	"	UESIN-Dev/Ion Beam Tech Layer Split	UES Inc.	UES PROJECT # P721	9,120
"	"	UESIN-Dev/Ion Beam Tech Layer Split	UES Inc.	UES PROJECT # P721	20,554
"	"	ARGON-Bottom-Up Polymer	University of Chicago	PO #2B-00921	19,273
"	"	UNIVE-Struct Character Battery Mat	University of Chicago	OF-00544 MOD 0002	15,643
"	"	UNIVE-Metreorological QA and Subway	University of Chicago	OF-01144	39,330
"	"	UNIVE-Structural Characterization	University of Chicago	OF-00544 MOD 0002	362
"	"	UNIVE-Invest of Electro Micromirror	Boston University	GC177552NGD	11,347
					431,421

**Michigan Technological University  
Schedule of Expenditures of Federal Awards  
For the year ended June 30, 2003**

<u>Federal Agency/ CFDA#</u>	<u>Program title/major subdivision</u>	<u>Grant/contract title</u>	<u>Pass thru entity if applicable</u>	<u>Contract #</u>	<u>Expenditures</u>
U.S. ENVIRONMENTAL PROTECTION AGENCY					
n/a - no subdivisions		NEETF-A Safe Water First Approach	NEETF	AGREEMENT # 98-08H	\$ 2,284
n/a - no subdivisions		BATTE-SFI-Comp Assist Cntr Chem Ind	Battelle Memorial Institute	408379-B-J4/CONT # 1042	24,878
					<u>27,162</u>
NATIONAL SCIENCE FOUNDATION					
n/a - no subdivisions		EDUCA-NSF Middleware Init (NMI) Web	EDUCAUSE	020431	3,818
"		UNIVE-Teachers Erth Scnce Inst	Tennessee Technological University	PO # C12712	153,026
"		UNIVE-Teachers Earth Sci Institute	Tennessee Technological University	PO # C12712	77,838
"		UNIVE-Deter Elect/Neutrino Rst Mass	University of Texas at Austin	UTA03-036 AMENDMENT 1	22,461
"		UNIVE-CSERI-Dv Comp Frmwk Atm CTMs	University of Iowa	PO # 4000088271	18,988
					<u>276,131</u>
U.S. DEPARTMENT OF COMMERCE					
National Oceanic and Atmospheric Administration		UNIVE-RSI-Gt Lakes Photosynth Rates	University of Michigan	PO# 3000229916	48,619
"		UNIVE-RSI-Great Lks Photosyn Rate	University of Michigan	PO# 3000229916	19,814
					<u>68,433</u>
U.S. AGENCY FOR INTERNATIONAL DEVELOPMENT					
		AMERI-Train Core Water Rsrce Expert	American Council on Education	AGREEMENT DATED 2/20/03	15,979
<b>TOTAL RESEARCH AND DEVELOPMENT CLUSTER OF PROGRAMS</b>					<b><u>17,695,269</u></b>
U.S. DEPARTMENT OF EDUCATION - STUDENT FINANCIAL AID CLUSTER					
84.033	Federal Work Study Program	Do-Education College Work Study P	n/a		295,606
84.063	Federal Pell Grant Program	Do-Education-Pell Grant Scholarsh	n/a		2,618,789
84.066	Federal Supplemental Education Oppurtur	Do-Education-Sup Educ Opp Grt Con	n/a		241,095
84.038	Federal Perkins Loan Program	Do-Education-Perkins Loan Program	n/a		2,532,592
84.268	Federal Direct Loan Program	William D. Ford Direct Loan Program	n/a		13,917,637
<b>TOTAL STUDENT FINANCIAL AID CLUSTER OF PROGRAMS</b>					<b><u>19,605,719</u></b>

**Michigan Technological University  
Schedule of Expenditures of Federal Awards  
For the year ended June 30, 2003**

<u>Federal Agency/ CFDA#</u>	<u>Program title/major subdivision</u>	<u>Grant/contract title</u>	<u>Pass thru entity if applicable</u>	<u>Contract #</u>	<u>Expenditures</u>
<b>FEDERAL AWARD PROGRAMS NOT INCLUDED IN RESEACH &amp; DEVELOPMENT OR STUDENT FINANCIAL AID CLUSTERS - WITH CFDA#S</b>					
U.S. DEPARTMENT OF EDUCATION - OTHER STUDENT AID PROGRAMS					
84.185	Byrd honors scholarships	Robert C. Byrd Honors	n/a		\$ 51,000
DEPARTMENT OF LABOR					
17.600	Mine health and safety grants	USLAB-FY2002-YEAR1-Mi Mine Safety	n/a	E4R2001919	103,294
	"	USLAB-FY2003-YEAR2-Mi Mine Safety	n/a	E4R3001919-MOD 1	101,076
					<u>204,370</u>
NATIONAL FOUNDATION ON THE ARTS AND THE HUMANITIES					
45.312	Institute of Museum and Library Services - National leadership grants	IMLS - Advancing the New Museum	n/a	CM-10023-01	<u>88,908</u>
NATIONAL SCIENCE FOUNDATION					
47.076	Education and human resources	NSF-Engineering in Pre-College Ed	n/a	DUE-9953189 AMD 002	37,796
	"	NSF-Engineering in Pre-College Ed	n/a	DUE-9953189 AMD 002	5,508
	"	NSF-Engineering in Pre-College Ed	n/a	DUE-9953189 AMD 002	34,249
	"	NSF-Engineering in Pre-College Ed	n/a	DUE-9953189 AMD 002	35,514
	"	NSF-Knowledge Mgmt Infrastructure	n/a	EHR-0125380	165,145
	"	NSF-Katerina Aifantis Fellowship	n/a	DGE-0004144 AMD 004	3,520
	"	NSF-Grad/Undergrad Engg Initiatives	n/a	DUE-0220500	47,837
					<u>329,569</u>
U.S. DEPARTMENT OF ENERGY					
81.086	Conservation research and development	USENE-Ignition Improvement-Lean Gas	n/a	DE-FC26-02NT41443-AMD A001	<u>27,823</u>
U.S. DEPARTMENT OF EDUCATION					
84.116	Fund for the improvement of post secondary education	USEDU-YR 1-N. Am Mobility-Higher Ed	n/a	P116N000021-03- ACTION NO. 04	2,706
	"	USEDU-YR 2-N. Am Mobility-Higher Ed	n/a	P116N000021-03- ACTION NO. 04	13,810
	"	USEDU-YR 3-N. Am Mobility-Higher Ed	n/a	P116N000021-03- ACTION NO. 04	11,755
					<u>28,271</u>

**Michigan Technological University  
Schedule of Expenditures of Federal Awards  
For the year ended June 30, 2003**

<u>Federal Agency/ CFDA#</u>	<u>Program title/major subdivision</u>	<u>Grant/contract title</u>	<u>Pass thru entity if applicable</u>	<u>Contract #</u>	<u>Expenditures</u>
84.281	Eisenhower professional development - state grants	MIEDU-Impr Tchr Quality Prof Dev Pr	Michigan Department of Education	030290-205	\$ 15,794
84.367B	Improving teacher quality state grants	MIEDU-2001/2002 Educ Science & Math	Michigan Department of Education	GRANT # 020290-202	<u>13,497</u>
<b>TOTAL FEDERAL AWARD PROGRAMS NOT INCLUDED IN RESEACH &amp; DEVELOPMENT OR STUDENT FINANCIAL AID CLUSTERS - WITH CFDA#S</b>					<u><b>759,232</b></u>
<b>FEDERAL AWARD PROGRAMS NOT INCLUDED IN RESEACH &amp; DEVELOPMENT OR STUDENT FINANCIAL AID CLUSTERS - CFDA# NOT AVAILABLE</b>					
U.S. DEPARTMENT OF COMMERCE					
	Economic Development Administration	Advanced Technology Design ATDC/EDA	n/a	06-01-04694	<u>197,141</u>
U.S. DEPARTMENT OF AGRICULTURE					
	U S Forest Service	USAGR-Lk States Silviculture Course	n/a	43-56A1-3-0043-SUB 02	<u>3,893</u>
U.S. DEPARTMENT OF TRANSPORTATION					
	Federal Highway Administration	USTRA-MTTI-Const Warranty Symposium	n/a	2302PMW050596 000 - AMD 0002	832
	"	USTRA-MTTI-Const Warranty Symposium	n/a	DTFH61-03-P-00185	10,000
	"	MITRA-MTTI-Const Warranty Symposium	Michigan Department of Transportation	CHK# 4803179	<u>30,964</u>
					<u>41,796</u>
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION					
	n/a - no subdivisions	UNIVE-Mich Space Grant Cons Adm	University of Michigan	CH #465764	385
	"	UNIVE-M Chye-High Effic Oxygen Sep	University of Michigan	CHECK # 655990	2,086
	"	UNIVE-O Sorensen-Laha Hzrd/Tung Vol	University of Michigan	CHECK # 655990	4,000
	"	UNIVE-Field TrainTeachers Earth Sys	University of Michigan	CHECK # 655990	5,000
	"	UNIVE-MI Spc Grant Administrative	University of Michigan	CHECK # 655990	3,176
	"	UNIVE-Amer Indian Bio Comput Math	University of Michigan	CHECK # 655990	3,500
	"	UNIVE-Summer Youth Program Spce Sci	University of Michigan	CHECK # 655990	4,225
	"	UNIVE-A Kieckhafer-Sty Plm/Thrus	University of Michigan	CHECK # 655990	4,720
	"	UNIVE-H Sherman-Ana/Ura Jacobsville	University of Michigan	CHECK # 655990	1,750
	"	UNIVE-C Bergstrom-Mosb Spectra/Naro	University of Michigan	CHECK 655990	2,264
	"	UNIVE-I Kowalczyk-Pred/Fail Aero Ap	University of Michigan	CHECK # 655990	1,879
	"	UNIVE-D- Nezych-Mosbauer Absorp/Com	University of Michigan	CHECK # 655990	2,500
	"	UNIVE-K Harvey-CBE-Mech Black Bears	University of Michigan	CHECK # 65590	1,250
	"	UNIVE-A Guth-Stdy/Nyam SO2 Emiss	University of Michigan	CHECK # 655990	2,500
	"	UNIVE-C Applin-CONCAM Shade Project	University of Michigan	CHECK # 655990	2,499
	"	UNIVE-CBE-L Godin-Fluid Flw/Calc	University of Michigan	CHECK # 655990	1,250
	"	UNIVE-Field Stdy for Urban Students	University of Michigan	CHECK # 659110	5,000
	"	UNIVE-Virtual Field Experience	University of Michigan	CHECK #834014	2,000
	"	UNIVE-FAK/MAPK Signal Transduction	University of Michigan	CHECK #834014	1,781
	"	UNIVE-Rdar Refl & Rain Est fr Space	University of Michigan	CHECK #834014	2,200
	"	UNIVE-Multisp Analysis Erupt Clouds	University of Michigan	CHECK #834014	2,500
	"	UNIVE-JAK/STAT Signal Mslc Mechan	University of Michigan	CHECK #834014	<u>1,937</u>

**Michigan Technological University  
Schedule of Expenditures of Federal Awards  
For the year ended June 30, 2003**

<u>Federal Agency/ CFDA#</u>	<u>Program title/major subdivision</u>	<u>Grant/contract title</u>	<u>Pass thru entity if applicable</u>	<u>Contract #</u>	<u>Expenditures</u>
					<u>58,402</u>
NATIONAL SCIENCE FOUNDATION					
n/a - no subdivisions		UCAID-NSF Middle Init A West	n/a	MTU AGREEMENT # 011032	\$ 76,707
"		UCAID-NSF Middleware Initiative	n/a	INTERNET 2 AGREEMENT	<u>15,537</u>
					<u>92,244</u>
U.S. DEPARTMENT OF EDUCATION					
Unknown		COPPE-02/03 Su Inst for Tech	Copper County ISD	LETTER DATED NOVEMBER 8, 2002	<u>2,735</u>
<b>TOTAL FEDERAL AWARD PROGRAMS NOT INCLUDED IN RESEACH &amp; DEVELOPMENT OR STUDENT FINANCIAL AID CLUSTERS - CFDA# NOT AVAILABLE</b>					<u><b>396,211</b></u>
<b>TOTAL EXPENDITURES OF FEDERAL AWARDS</b>					<u><b>\$ 38,456,431</b></u>

1) Basis of presentation -

The Schedule of expenditures of federal awards includes the federal grant activity of the University and is presented on the modified accrual basis of accounting. The information in this schedule is presented in accordance with the requirements of OMB Circular A-133, Audits of States, Local Governments, and Non-Profit Organizations. Therefore some amounts presented in this schedule may differ from amounts presented or used in the preparation of the basic financial statements.

Michigan Technological University  
 Schedule of Findings and Questioned Costs  
 For the Year Ended June 30, 2003

SECTION 1 - SUMMARY OF AUDITORS RESULTS:

***Financial Statements***

Type of Auditor's report issued:	Unqualified
Internal control over financial reporting:	
Material weakness identified?	No
Reportable conditions identified not considered to be material weaknesses?	None reported
Noncompliance material to financial statements noted?	No

***Federal Awards***

Internal control over major programs:	
Material weaknesses identified?	No
Reportable conditions identified not considered to be material weaknesses?	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 Circular A-133, Section .510(a) ?	No

Identification of major programs:

<i>CFDA #</i>	<i>Name of Program</i>
84.033,84.038,84.063,84.268	Student financial assistance cluster
Various	Research and development cluster

Dollar threshold to distinguish between type A and type B programs:	\$1,153,000
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Auditee qualified as a low risk auditee?	Yes
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## SECTION II – FINANCIAL STATEMENT FINDINGS

No financial statement findings are reported.

## SECTION III – FEDERAL AWARD FINDINGS AND QUESTIONED COSTS

No federal award findings or questioned costs are reported.