



MichiganTech

**Michigan Technological
University**



**Federal Awards
Single Audit Report**

June 30, 2004

MICHIGAN TECHNOLOGICAL UNIVERSITY

SINGLE AUDIT REPORT

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REHMANN ROBSON

Certified Public Accountants

A member of THE REHMANN GROUP

**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**

September 2, 2004

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, 2004 and have issued our report thereon dated September 2, 2004. 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*.

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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, federal awarding agencies and pass-through entities, 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.



REHMANN ROBSON

Certified Public Accountants

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

September 2, 2004

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, 2004. 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, 2004.

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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, 2004 and have issued our report thereon dated September 2, 2004. 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, federal awarding agencies and pass-through entities, 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, 2004**

RESEARCH AND DEVELOPMENT CLUSTER - CFDA # AVAILABLE

Federal Agency/CFDA#	Program title/major subdivision Grant/contract title	Pass thru entity if applicable	Contract #	Expenditures
U.S. Department of Agriculture				
10.202	McIntyre Stennis Act			
	MS-FY03-Research Administration	n/a	FY03 MCINTIRE-STENNIS	\$ 56,297
	MS-FY03-Wood Stake Decomposition	n/a	FY03 MCINTIRE-STENNIS	4,691
	MS-FY03-Molecular Genetics in Aspen	n/a	FY03 MCINTIRE-STENNIS	4,189
	MS-FY03-Western U.P. Land Use Centr	n/a	FY03 MCINTIRE-STENNIS	1,876
	MS-FY03-Mold Growth on Wood Fiber	n/a	FY03 MCINTIRE-STENNIS	7,000
	MS-FY03 - A Plague of Maples	n/a	FY03 MCINTIRE-STENNIS	4,330
	MS-FY03-Wolf/Moose-Isle Royale	n/a	FY03 MCINTIRE-STENNIS	2,102
	MS-PBC-FY03 - Cryopreservation	n/a	FY03 MCINTIRE-STENNIS	1,041
	MS-FY03-Robust Methodology to Map	n/a	FY03 MCINTIRE-STENNIS	807
	MS-FY03-Toxic Metals-Ruffed Grouse	n/a	FY03 MCINTIRE-STENNIS	3,378
	MS-FY03 - Sarracenia Purpurea	n/a	FY03 MCINTIRE-STENNIS	3,269
	MS-FY03-Impacts of Greenhouse Gases	n/a	FY03 MCINTIRE-STENNIS	2,102
	MS-FY03-Regeneration Jack Pine Frst	n/a	FY03 MCINTIRE-STENNIS	4,438
	MS-FY03 - Pennsylvania Sedge	n/a	FY03 MCINTIRE-STENNIS	4,747
	MS-FY03-Carbon Cycling-Pine/Aspen	n/a	FY03 MCINTIRE-STENNIS	5,153
	MS - 04 - Rsch Admin	n/a	FY04 MCINTIRE STENNIS	28,177
	MS-FY04-Canada Yew	n/a	FY04 MCINTIRE STENNIS	4,852
	MS-FY04--Mortality Model	n/a	FY04 MCINTIRE STENNIS	5,137
	MS-04-Sarracenia Purpurea	n/a	FY04 MCINTIRE STENNIS	6,278
	MS-FY04-West Up Land Use	n/a	FY04 MCINTIRE STENNIS	3,524
	MS-FY04-Molecular Genetics	n/a	FY04 MCINTIRE STENNIS	2,662
	MS-FY04-Wood Stake Decomp.	n/a	FY04 MCINTIRE STENNIS	6,283
	MS-FY04-Carbon Cycling	n/a	FY04 MCINTIRE STENNIS	5,351
	MS-FY04-Mold Growth	n/a	FY04 MCINTIRE STENNIS	4,442
	MS-FY04-Pennsylvania Sedge	n/a	FY04 MCINTIRE STENNIS	2,507
	MS-FY04-Sale-Thimbleberry	n/a	FY04 MCINTIRE STENNIS	6,003
	MS-FY04-Wolf/Moose Monitor	n/a	FY04 MCINTIRE STENNIS	1,434
	MS-FY04-Hrdwd Defect Image	n/a	FY04 MCINTIRE STENNIS	344
	MS-FY04-Jack Pine Forests	n/a	FY04 MCINTIRE STENNIS	5,335

**MICHIGAN TECHNOLOGICAL UNIVERSITY
SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
FOR THE YEAR ENDED JUNE 30, 2004**

RESEARCH AND DEVELOPMENT CLUSTER - CFDA # AVAILABLE

Federal Agency/CFDA#	Program title/major subdivision Grant/contract title	Pass thru entity if applicable	Contract #	Expenditures
	MS-FY04-Cryopreservation	n/a	FY04 MCINTIRE STENNIS	3,945
	MS-FY04-Plague of Maples	n/a	FY04 MCINTIRE STENNIS	4,778
	MS/PBRC - Tree Biotechnology	n/a	FY04 MCINTIRE STENNIS	3,816
				200,288
10.206	Grants for agricultural research-competitive research grants			
	USAGR-Wood Composite Panels	n/a	2001-35504-10042	28,685
	USAGR-PBC/Molecular Dissection	n/a	2003-35103-12906	55,418
	USAGR/ESC-Aspen to Melampsora Rust	n/a	2001-35100-10624	11,456
	USAGR/ESC-Resp-Fine Root Chemistry	n/a	2001-35107-11262	102,134
	USAGR-PBC/Syringyl Monolignol Genes	n/a	2002-35301-12048	48,974
				246,667
10.219	Biotechnology risk assessment research			
	USAGR-PBC/Ecol Consequences Aspen	n/a	00-39210-9812	78,475
	USAGR/ESC-PBC/Ecol Conseq Aspen	n/a	00-39210-9812	13,649
				92,124
10.652	Forestry research			
	USAGR/ESC-Carbon & Nitrogen Cycling	n/a	04-CA-11242343-069	19,011
	USAGR/ESC-Carbon & Nitrogen Cycling	n/a	04-CA-11242343-069	13,574
	USAGR-Incipient Decay Hdwd Timber	n/a	04-CA-11242343-046	3,700
				36,285
10.664	Cooperative forestry assistance			
	USAGR-Intensive Log Bucker Training	n/a	00-DG-11244225-204-MOD NO. 2	31,827
	USAGR-Detection Emerald Ash Borer	n/a	03-DG-11244225-084-MOD NO. A1	3,800
	USAGR/ESC-Eval Health of Ash Trees	n/a	03-CA-11244225-577-MOD NO. A2	55,435
	USAGR - Emerald Ash Borer Detection	n/a	04-CA-11244225-321	112,558
	USAGR/ESC-Interactions in Red Pine	n/a	04-CA-11244225-369	8,537
				212,157
10.672	Rural development, forestry and communities			
	USAGR-Recycle Value Added Parts	n/a	03-DG-11244225-476	1,457

U.S. Department of Commerce

USCOM/RSI-YEAR 1-Climate Forecasts	n/a	NA16GP2947-AMD NO. 2	7,216
USCOM/RSI-YEAR 1-Climate Forecasts	n/a	NA16GP2947-AMD NO. 2	9,840
USCOM-RSI/ Year 2 - PICO-NARE Site	n/a	NA16GP1658-AMD NO. 2	69,213
USCOM-RSI-FT/MBL Measurements-Azore	n/a	NA03OAR4310002-AMD NO. 1	62,948
USCOM-RSI-YEAR 2--Climate Forecasts	n/a	NA16GP2947-AMD NO. 2	34,461
USCOM-RSI/ Year 3 - PICO NARE Site	n/a	NA16GP1658-AMD NO. 2	104,386
			<hr/> 288,064

11.609 Measurement and engineering research and standards

NIST/IME-Carbon-Nanotube/Polymers		70NANB3H1130	15,006
NIST- Summer Undergrad Fellow Prgm		70NANB3H1040	2,020
			<hr/> 17,026

U.S. Department of Defense

12.300 Basic and applied scientific research

WASHI-IME/Fundmntl Propty Energetic	Washington State University	G001118 AMENDMENT #1,#2 & #3	143,956
WASHI-IME-Fund Prop Energetic Mtls	Washington State University	G001118 AMENDMENT #1,#2 & #3	21,582
OFFIC-Improving NQR Detection	n/a	N00173-01-1-G000-MOD P00005	8,329
OFFIC-IME/Breathing Photonic Crystl	n/a	N00014-03-1-0038-MOD P00001	92,384
OFFIC-IME/Breathing Photonic Crystl	n/a	N00014-03-1-0038-MOD P00001	51,779
OFFIC-Instrument-Magnetic Resonance	n/a	N00014-03-1-0686	62,875
OFFIC-Support for NQR Explosive Det	n/a	N00173-04-1-G011	7,394
			<hr/> 388,299

12.630 Basic, applied and advanced research in scientific engineering

USAIR-Ground-Test Facility/Thruster	n/a	F49620-03-1-0300	180,787
UNIVE/IME-Year 3 Stdy Def/Dop Chal	Stanford University	PY-1372 AMEND 1,2,3,4,5	83,246
UNIVE-IME-Year 4 Theo Stdy Dfct/Dop	Stanford University	PY-1372 AMEND 1,2,3,4,5	30,994
STANF-IEM-NSR-Year 4 The Stdy Dfts/	Stanford University	PY-1372 AMEND 1,2,3,4,5	17,107
			<hr/> 312,134

12.800 Air force defense research sciences program

USAIR-Design of Smart Structures	n/a	F49620-01-1-0152-MOD P00002	4,956
USAIR/IME-YR1-Liquid-Metal Anode	n/a	F49620-03-1-0027-MOD P00001	52,123
USAIR-YR1-Nanosatellite Demonstrate	n/a	F49620-03-1-0139-MOD P0002	22,415
USAIR-Multi-Channel LADAR Process.	n/a	F08630-03-1-0015-MOD P00001	44,132
USAIR-Nanotube-Reinforced Polymer	n/a	F49620-03-1-0442-MOD P00001	3,537
USAIR-YR2-Nanosatellite Demonstrate	n/a	F49620-03-1-0139-MOD P0002	33,413
USAIR/IME-YR2-Liquid-Metal Anode	n/a	F49620-03-1-0027-MOD P00001	52,397
UNIVE-Adv Concepts Grnd Base Imag	University of New Mexico	8-91601-7812/PO # 888039	3,685
UNIVE-Sci/Eng Carbon Foams	Ohio University	UT12219/OU3191	30,704
			<hr/> 247,362

**MICHIGAN TECHNOLOGICAL UNIVERSITY
SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
FOR THE YEAR ENDED JUNE 30, 2004**

RESEARCH AND DEVELOPMENT CLUSTER - CFDA # AVAILABLE

Federal Agency/CFDA#	Program title/major subdivision Grant/contract title	Pass thru entity if applicable	Contract #	Expenditures
12.901	Mathematical sciences grant program			
	NATIO - Codes and Applications	n/a	MDA904-02-1-0010-MOD P00001	29,147
	NATIO-Codes, Designs, Finite Geometry	n/a	MDA904-03-1-0088-MOD P00001	3,881
				<u>33,028</u>
 <u>U.S. Department of the Interior</u>				
15.228	Wildlife and urban interface community and rural fire assistance			
	USFIS-Firebreaks at Seney NWR	n/a	AGRMNT NO. 301813J066	<u>19,700</u>
15.807	Earthquake hazard reductions			
	USGEO - ID Ground Motion Parameters	n/a	02HQGR0110-MOD 01	<u>5,970</u>
15.808	U.S. Geological Survey - research and data acquisition			
	USGEO-RSI/Volcanic Hazards-Escobar	n/a	01WRAG0023-MOD NO. 1	13,899
	USGEO - Year 3 - Boreal Ecosystem	n/a	00CRAG0041-AMD 0004	10,273
	USGEO - Year 4 - Boreal Ecosystem	n/a	00CRAG0041-AMD 0004	65,852
				<u>90,024</u>
 <u>U.S. Department of Transportation</u>				
20.515	State planning and research program			
	UNIVE-MTTI-JHNSN-Wyom Rdsft 2004	University of Wyoming	JNNSN48200SUB	64
	UNIVE-MTTI-SHRDN-Wyom Rdsft GIS 04	University of Wyoming	SHRDN 48800 SUB	64
				<u>128</u>
20.600	State and community highway safety			
	MIPOL-Dev Wntr Driv Safe Train/Manu	Michigan State Police	DE-03-02	<u>4,561</u>
 <u>National Science Foundation</u>				
47.041	Engineering grants			
	COLUM-XYZ-On-A-Chip/Integration Tec	Columbia University	PO # 516843	47
	COLUM-XYZ-On-A-Chip/Integration Tec	Columbia University	PO # 516843	1,253
	UNIVE-REU-WIMS-ADV ACCT-Engin Rsch	University of Michigan	SUBCONTRACT # F004025	13,911
	UNIVE-ADV ACCT-Spr Ent En Rsrch Ctr	University of Michigan	SUBCONTRACT # F004025	8,760

UNIVE-ADV ACCT-WIMS Edu Tsk Prt Cst	University of Michigan	SUBCONTRACT # F004025	100
UNIVE-ADV ACCT-WIMS Educ Tsk Sps	University of Michigan	SUBCONTRACT # F004025	35,573
UNIVE-ADV ACCT-WIMS Mcr Tk Sprr Acc	University of Michigan	SUBCONTRACT # F004025	126,045
UNIVE-ADV ACCT-Sensors Tsk Sprr	University of Michigan	SUBCONTRACT # F004025	254,455
UNIVE-ADV ACCT-WIMS Sponsor Adminis	University of Michigan	SUBCONTRACT # F004025	45,575
NSF-Hybrid Processes for Machining	n/a	DMI-9875251-AMD 003	13,000
NSF/CLASM - Kinematic Coagulation	n/a	DMI-0070088	43,599
NSF-Projects to Assist Disabled	n/a	BES-0079969-AMD 009	14,400
NSF - Instrumentation (MRI)	n/a	CMS-0079469	13,642
NSF/CLASM-Selection Indstrl Coating	n/a	DMI-0084903	119,583
NSF-Hybrid Processes for Machining	n/a	DMI-9875251-AMD 003	3,403
NSF-REU-Projects to Assist Disabled	n/a	BES-0079969-AMD 009	3,558
NSF/SFI-Metrics Envir Remediation	n/a	BES-0083112	70,705
NSF - (REU) Kinematic Coagulation	n/a	DMI-0070088	2,027
NSF-Internal Condensing Flows	n/a	CTS-0086988-AMD 002	54,263
NSF-GOALI: Smart Tool Redevelopment	n/a	DMI-0100210	5,404
NSF-IME/Planar Magn Photonic Crystl	n/a	ECS-0115315-AMD 004	29,103
NSF-IME/Planar Magn Photonic Crystl	n/a	ECS-0115315-AMD 004	20,296
NSF-(REU) Internal Condensing Flows	n/a	CTS-0086988-AMD 002	5,560
NSF-Binding Mechanisms of Fly-Ash	n/a	BES-9802198-AMD 001	137,351
NSF-IME/(REU/RET)-Photonic Crystals	n/a	ECS-0115315-AMD 004	703
NSF - Integrated Machine-Tool	n/a	DMI-0225952-AMD 001	8,001
NSF-GOALI: Design Extrusion Dies	n/a	DMI-0200091	69,300
NSF-Hybrid Processes for Machining	n/a	DMI-9875251-AMD 003	5,000
NSF/CLASM - Product Modularity	n/a	DMI-0323497-AMD 001	23,243
NSF-GOALI-Ultrafine Grained Ceramic	n/a	CMS-0324461	32,098
NSF - High Speed Digital Imaging	n/a	CTS-0321003	146,256
NSF-Curriculum-Service Sector Engrg	n/a	EEC-0343187	63,887
NSF-NEES/E-Defense Collaboration	n/a	CMS-0349433-AMD 001	34,201
NSF - (REU) Product Modularity	n/a	DMI-0323497-AMD 001	1,941
NSF - Rayleigh-Taylor Instability	n/a	CTS-0325743	12,234
NSF-CAREER: Electron Fluid Dynamics	n/a	CTS-0348058	9,150
NSF-REU-Projects to Assist Disabled	n/a	BES-0079969-AMD 009	1,985
			1,429,612

47.049 Mathematical and physical sciences National Science Foundation:

UNIVE-SPNSR-Closed Loop ExAo/MCAO	University of California Santa Cruz	S0161634	5,108
NSF - FRG: Mechanical Instabilities	n/a	DMR-9972941-AMD 003	12,837
NSF/IME-General Ensemble Algorithms	n/a	CHE-9981874	5,263
NSF-Bound & Continuum Properties	n/a	PHY-0097111-AMD 002	30,649
NSF-Model for Polymeric Fluids	n/a	DMS-0096847	26,032

**MICHIGAN TECHNOLOGICAL UNIVERSITY
SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
FOR THE YEAR ENID JUNE 30, 2004**

RESEARCH AND DEVELOPMENT CLUSTER - CFDA # AVAILABLE

Federal Agency/CFDA#	Program title/major subdivision Grant/contract title	Pass thru entity if applicable	Contract #	Expenditures
	NSF-REU/Understand Temporal Univers	n/a	AST-9701716-AMD 003	865
	NSF-Adaptive Optical Telescopes	n/a	AST-0123466	97,913
	NSF-ITR: Computing Sky in Real Time	n/a	AST-0218991	9,229
	NSF/IME-General Ensemble Algorithms	n/a	CHE-0313618	41,958
	NSF-Properties Lathanide & Actinide	n/a	PHY-0354793	329
				230,183
47.050	Geosciences			
	NSF - AD 260 Eruption-Lake Ilopango	n/a	EAR-9903291	37,852
	NSF-Laboratory Studies of Clouds	n/a	ATM-9984294-AMD 005	102,164
	NSF/RSI-Correlated Stochastic Proc.	n/a	ATM-0106271-AMD 002	60,630
	NSF/RSI/Volcanic Cloud-Atmosphere	n/a	EAR-0106875-AMD 003	65,366
	NSF - Nature & Origin of Calderas	n/a	EAR-0125631-AMD 001	16,657
	NSF/RSI/Nitrogen Oxides-N. Atlantic	n/a	ATM-0215843-AMD 001	123,015
	NSF - Phase Doppler Interferometer	n/a	ATM-0320953	62,916
	NSF/RSI-Gas Correlation Camera	n/a	EAR-0321869	58,015
	NSF/RSI-Hi Temporal Resolution Data	n/a	EAR-0337120	18,219
	NSF/RSI-Hi Temporal Resolution Data	n/a	EAR-0337120	197
	NSF/RSI/Magnitude Turbidity Plumes	n/a	OCE-9726680-AMD 004	10,547
	NSF/RSI/Magnitude Turbidity Plumes	n/a	OCE-9726680-AMD 004	2,368
	NSF/RSI/Impact of Keweenaw Current	n/a	OCE-9712872-AMD 006	2,721
	NSF/RSI/Impact of Keweenaw Current	n/a	OCE-9712872-AMD 006	745
	NSF-Impact of the Keweenaw Current	n/a	OCE-9712872-AMD 006	10,446
	NSF/RSI/Impact of Keweenaw Current	n/a	OCE-9712872-AMD 006	46,477
	NSF-Impact of the Keweenaw Current	n/a	OCE-9712872-AMD 006	2,238
				620,573
47.070	Computer and information science and engineering			
	NSF-CAREER: Distributed Computation	n/a	CCR-9984682-AMD 003	45,535
	NSF - SGER: Interconnect Problem	n/a	CCR-0086609-AMD 003	1,793
	NSF-CSERI/CAREER: Air Quality Model	n/a	ACI-0093139-AMD 001	13,801
	NSF-(REU) SGER:Interconnect Problem	n/a	CCR-0086609-AMD 003	4,664
	NSF - CAREER: Memory Controller	n/a	CCR-0133777-AMD 002	42,341
	NSF - Optimization DSP Architecture	n/a	CCR-0209036	80,870

	NSF-(REU)- CAREER:Memory Controller	n/a	CCR-0133777-AMD 002	3,070
	NSF - CAREER:Signal Processing Rsch	n/a	CCR-0238174	98,664
	NSF - US-Russian Collaborative Rsch	n/a	CCR-0310632	38,550
	NSF - US-Russian Collaborative Rsch	n/a	CCR-0310632	3,145
	NSF-ITR: Exposing Compiler to Hdwe.	n/a	CCR-0312892	127,621
	NSF-CAREER:Future Level Parallelism	n/a	CCF-0347592	24,529
				484,583
47.074	Biological sciences			
	NSF/ESC-Multi-trophic Level Dynamic	n/a	DEB-9903671-AMD 004	22,780
	NSF/ESC-Major Research Instrument	n/a	DBI-0079566	48,777
	NSF/ESC- Plant-Microbe Interactions	n/a	DEB-0075397-AMD 006	208,401
	NSF-RSI/Aquatic Food Webs	n/a	DEB-0083731-AMD 003	11,584
	NSF - Plant-Microbe Interactions	n/a	DEB-0075397-AMD 006	8,784
	NSF/ESC-Multi-trophic Level Dynamic	n/a	DEB-9903671-AMD 004	5,930
	NSF-Exopolymer Prod-Benthic Diatoms	n/a	IBN-0110875-AMD 005	145,751
	NSF - (REU) Exopolymer Production	n/a	IBN-0110875-AMD 005	5,293
	NSF/ESC-(REU)Plant-Microbe Interact	n/a	DEB-0075397-AMD 006	5,652
	NSF-PBC/CAREER:Cellulose Biosynthes	n/a	IBN-0236492-AMD 001	134,982
	NSF/ESC-Nitrogen Satur/Altered Eco	n/a	DEB-0315138-AMD 001	218,756
	NSF/ESC - REU Site for Ecosystems	n/a	DBI-0353973	3,362
	NSF/ESC - Participant Support (REU)	n/a	DBI-0353973	22,260
				842,312
47.075	Social, behavioral and economic sciences			
	NATIO-Devel Codes Genetic Access	n/a	9/18/01 AGREEMENT	227
	NSF-Volcanoes-Guatemala/EI Salvador	n/a	INT-0118587-AMD 001	9,829
	NSF-RSI/US-Azores Co-op Study	n/a	INT-0110397	29,694
	NSF-NUE:Undergrad Expl. Nano-Scienc	n/a	SES-0304439	63,097
	NSF - NUE: Undergrad Stipends	n/a	SES-0304439	11,439
	NSF - NUE: Speakers Travel	n/a	SES-0304439	2,986
	NSF - US-Argentina/Chile Research	n/a	OISE-0405634	1,000
				118,272
47.076	Education and human resources			
	UNIVE-Great Lks Wood Manuf Partners	University of Minnesota - Duluth	1638-187-6487-7901	5,869
	TENNE-Teachers' Earth Sci Inst	Tennessee Technological University	PO # C13489	85,533
	TENNE-Particpt Tchrs Erth Sci Inst	Tennessee Technological University	PO # C13489	83,666
	NSF/SFI-Experiential Learning Module	n/a	DUE-9950506-AMD 002	24,468
	NSF-Geology Utah's Nat'l Parks	n/a	DUE-9950213-AMD 003	42
	NSF - MTU Grad Teaching Fellows	n/a	DGE-9979572-AMD 003	18,886
	NSF - Concurrent Computing	n/a	DUE-9952509-AMD 001	741
	NSF/SFI - Engg in Pre-College Ed	n/a	DUE-9953189 AMD 004	107,381

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RESEARCH AND DEVELOPMENT CLUSTER - CFDA # AVAILABLE

Federal Agency/CFDA#	Program title/major subdivision Grant/contract title	Pass thru entity if applicable	Contract #	Expenditures
	NSF-Op Lab/Simulation Ctr-Envir Eng	n/a	DUE-0088282	7,423
	NSF-Eng Pre-College Participant Cst	n/a	DUE-9953189 AMD 004	14,491
	NSF-Integrate Computing w/Geometry	n/a	DUE-0127401	90,365
	NSF-Computer Instrumentation-Visual	n/a	DUE-0127025	2,319
	NSF-CONCAM Undergraduate Education	n/a	DUE-0231070	14,609
	NSF-IGERT/SFI-Sustainable Futures	n/a	DGE-0333401	64,197
				519,990
47.078	Polar programs			
	NSF/RSI-Photochemicl Transformation	n/a	OPP-9907197-AMD 004	7,179
<u>U.S. Environmental Protection Agency</u>				
66.469	Great lakes program			
	EPA-Technlgy PBT Flux Determination	n/a	GL-96520401-0	12,353
66.500	Environmental protection consolidation research			
	CONSO-PBC/Sponsor Design Promoturs	Consortium for plant biotech research	EPA82947901-129	22,210
	EPA/SFI-Environmental Remediation	n/a	CR-82661401-AMD 3	1,933
				24,143
<u>U.S. Department of Energy</u>				
81.035	Unknown			
	USENE/IMP-Improve of Wear Component	n/a	DE-FC26-01NT41055-AMD M003	22,033
	USENE/IMP-Improve of Wear Component	n/a	DE-FC26-01NT41055-AMD M003	17,076
	USENE-Comminution Circuit Thru-put	n/a	DE-FC2626-01NT41062-AMD A005	216,079
				255,188
81.036	Inventions and innovations			
	USENE/IMP-Enabling Tool for Glass	n/a	DE-FG36-02G012062-AMD M001	118,184
81.049	Office of science financial assistance program			
	UNIVE-Syn/Fac Reg Carb Cyclin	University of California - Davis	MTU/901214-03	2,345
	MICHI/ESC- Below Grnd Plants/Soil	University of Michigan	V51573/F000354 AMEND 9	206,106
	DOE-Year 11-Hyperfine Structure	n/a	DE-FG02-92ER14282-AMD A012	29,113
	USENE/ESC-YR3-Aspen FACE-FACTS II	n/a	DE-FG02-95ER62125-AMD A016	746,992

	DOE-Year 12-Hyperfine Structure	n/a	DE-FG02-92ER14282-AMD A012	50,668
	USENE-ESC-YR4-Aspen FACE-FACTS II	n/a	DE-FG02-95ER62125-AMD A016	295,634
	USENE/ESC-Carbon Sequestrian-Poplar	n/a	DE-FG02-04ER63792	40,476
	USENE-Mi Tech Center-Nanostructure	n/a	DE-FG02-04ER63821	131,813
				<hr/>
81.086	Conservation research and development			1,503,147
	USENE-Grad Auto Tech Ed (GATE) Prgm	n/a	DE-FC26-98CH10951-AMD A008	16,246
	USENE-PBC/Genetic Augmentation	n/a	DE-FC36-01GO10617-AMD M005	89,216
	USENE/IMP-Tubes-Produce of Ethylene	n/a	DE-FC36-01ID14255-AMD A004	228,415
	USENE/IMP-Novel Direct Steel Making	n/a	DE-FC36-01ID14209-AMD A006	85,836
	USENE/IMP-Novel Direct Steel Making	n/a	DE-FC36-01ID14209-AMD A006	81
	USENE-Ignition Improvement-Lean Gas	n/a	DE-FC26-02NT41443-AMD A004	5,364
	USENE-Ignition Improvement-Lean Gas	n/a	DE-FC26-02NT41443-AMD A004	42,751
	USENE/IMP-Microwave ElectrolyteCell	n/a	DE-FC36-02ID14402-AMD A003	85,807
	USENE/IMP-Microwave ElectrolyteCell	n/a	DE-FC36-02ID14402-AMD A003	40,393
	USENE/IMP-Steel Slag Iron Content	n/a	DE-FC36-01ID14046-AMD M005	261,473
	USENE/IMP-Steel Slag Iron Content	n/a	DE-FC36-01ID14046-AMD M005	17,343
	USENE-PBC-Genetic Manipulation	n/a	DE-FC36-03ID14440-AMD A003	286,679
	USENE-ATDC/Ignition Improve LeanGas	n/a	DE-FC26-02NT41443-AMD A004	16,967
				<hr/>
81.087	Renewable energy research and development			1,176,571
	USENE-Methods-Agglomeration of Ore	n/a	DE-FC26-03NT41924-AMD M004	31,559
	USENE - Extraction of Iron from Ore	n/a	DE-FG26-03NT41938-AMD A000	4,869
	USENE-Single-Step Ironmaking fr Ore	n/a	DE-FG26-03NT41930-AMD A000	6,140
				<hr/>
				42,568
81.089	Fossil energy research and development			
	USENE-Calibration/Test Sonic Stimul	n/a	DE-FC26-01BC15165	547,594
81.107	Unknown			
	USENE-YR3/YR4-Shallow Carbon Rsvr.	n/a	DE-FC26-00BC15122-AMD M003	139,433
	USENE-Implementing Cyclic CO2 Flood	n/a	DE-FC26-02NT15441-AMD A003	151,833
	USENE-YR5-Shallow Carbon Reservoir	n/a	DE-FC26-00BC15122-AMD M003	36,446
				<hr/>
				327,712
				<hr/>
<u>U.S. Department of Education</u>				
84.116	Fund for the improvement of postsecondary education			
	USEDU-ExCit: Expanding Cities	n/a	P116N030005-ACTION NO. 01	9,694
				<hr/>

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RESEARCH AND DEVELOPMENT CLUSTER - CFDA # AVAILABLE

Federal Agency/CFDA#	Program title/major subdivision Grant/contract title	Pass thru entity if applicable	Contract #	Expenditures
84.200	Graduate assistance in areas of national need			
	USEDU/SFI-YR2 GAANN:Env Engg Fellow	n/a	P200A000425-02 ACTION NO. 06	751
	USEDU/SFI-YR3 GAANN:Env Engg Fellow	n/a	P200A000425-02 ACTION NO. 06	64,652
	USEDU-YEAR 3 GAANN:Geology Fellows	n/a	P200A000420-02 ACTION NO. 05	16,408
	USEDU-YEAR2 GAANN:Engine Fellowship	n/a	P200A010413-03-ACTION NO. 09	54,404
	USEDU-Year3 GAANN:Engine Fellowship	n/a	P200A010413-03-ACTION NO. 09	46,092
				<u>182,307</u>
 <u>U.S. Department of Health and Human Services</u>				
93.390	Academic research enhancement award			
	NIH-Gender & Orthostatic Tolerances	n/a	1 R15 HL67787-01	<u>734</u>
93.821	Cell biology and biophysics research			
	NIH/IME-YEAR1-Structural Transition	n/a	1 R01 GM062838-01A2	<u>108,218</u>
93.846	Arthritis, musculoskeletal and skin disease research			
	NIH/IME - Black Bear Bone Mechanics	n/a	1 R15 AR050420-01	<u>47,855</u>
93.859	Biomedical research and research training			
	NIH/IME-YEAR2-Structural Transition	n/a	5 R01 GM062838-02	<u>12</u>
93.866	Aging research			
	NIH-Mechanosensory Signal in Muscle	n/a	1 R03 AG20370-01	<u>2,015</u>
Subtotal Research and Development Cluster - CFDA# available				<u>10,806,273</u>

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RESEARCH AND DEVELOPMENT CLUSTER - CFDA # NOT AVAILABLE - DIRECT AWARDS

Federal Agency/CFDA#	Program title/major subdivision Grant/contract title	Pass thru entity if applicable	Contract #	Expenditures
U.S. Department of Agriculture				
U S Forest Service				
	USAGR-Archaeol Collect-Ottawa Nat'l	n/a	01-CS-11090700-005-MOD NO. 4	429
	USAGR-Archaeol Coll-Hiawatha Nat'l	n/a	03-CS-110910-00-17	462
	USAGR-StreamswEEPing ElvOy Creek	n/a	03-CS-11091313-006	10,759
	USAGR - NDE Methods	n/a	PNW03-DG-11261975-137-MOD NO.1	4,136
	USAGR-Carbon Storage in Forests	n/a	00-JV-11231300-086	3,715
	USAGR-Silver vs Red Maple Property	n/a	00-JV-11111133-149-AMD NO. 3	2,232
	USAGR-Strength of Timber Bridges	n/a	01-JV-11111132066-AMD NO. 2	7,294
	USAGR-Carbon Allocation-Red Pine	n/a	01-JV-11231300-071	10,551
	USAGR-Above-Ground Crbn Allocation	n/a	01-JV-11231300-074	1,065
	USAGR/ESC - Manage FACE Experiment	n/a	01-JV-11231300-085-MOD NO. 6	72,080
	USAGR-Carbon & Nitrogen Dynamics	n/a	01-JV-11231300-072-MOD NO. 2	46,109
	USAGR-Wood Decomposition by Environ	n/a	01-JV-11222062-242-AMD NO. 3	113,882
	USAGR-Ponderosa Pine in Black Hills	n/a	02-CS-11020300-037	144
	USAGR/ESC-CO2 Flux-Aspen FACE Exper	n/a	02-JV-11231300-052-MOD NO. 2	22,998
	USAGR-Mapping Fire Location/Extent	n/a	01-JV-11231300-098-MOD NO. 4	211,440
	USAGR/ESC-Incr Atmospheric CO2 & O3	n/a	03-JV-11231300-053-MOD 1	14,692
	USAGR-Influence Climate-Wood Decomp	n/a	03-JV-11231300-041-MOD NO. 1	19,508
	USAGR-Mgmt Local Scour-Stream Rehab	n/a	AGRMT NO. 58-6408-3-0002	410
	USAGR-Ecologist Lecture Series	n/a	03-CS-11231300-040	2,059
	USAGR-Woody Debris in Streams	n/a	03-JV-11231300-074	8,961
	USAGR/ESC-Plants, Carbon Allocat.	n/a	03-JV-11231300-073-MOD NO.1	14,869
	USAGR/ESC-Decay Rts of Crbn in Leaf	n/a	03-JV-11231300-076	1,367
	USAGR-Construct Six Timber bridges	n/a	03-DG-11244225-114	43,559
	USAGR-Grading/Scaling Log Database	n/a	03-CA-11242343-127	10,156
	USAGR-Quality Tongue/Groove Panels	n/a	03-DG-11244225-115	2,353
	USAGR/ESC-Measure Belowgrd Process	n/a	03-CS-11231300-098	13,343
	USAGR-Fiber Production/Soil Prod.	n/a	03-JV-11231300-067-MOD NO. 1	9,704

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Federal Agency/CFDA#	Program title/major subdivision Grant/contract title	Pass thru entity if applicable	Contract #	Expenditures
	USAGR-Produce Solid Sawm Web Stock	n/a	03-CR-11111133-128	2,200
	USAGR-Carbon/Nitrogen Cycle Rsch.	n/a	04-CR-11231300-027-MOD NO. 1	2,932
	USAGR-Fire Risk-Mark Twain Forest	n/a	04-JV-11231300-038	245
				653,654
U.S. Department of Defense				
National Security Agency				
	USDEF-CSERI/NSR Unified Parallel C	n/a	MDA904-03-C-0483-MOD NO. P0001	134,982
	USDEF-CSERI/NSR Unified Parallel C	n/a	MDA904-03-C-0483-MOD NO. P0001	43,513
				178,495
U S Army				
	TACOM - FMTV Dump Body Analysis	n/a	DAAE07-01-C-L520-MOD A00003	85,749
	TACOM - Surge Work Directive 011	n/a	DAAE07-00-C-L052-MOD WD11/WD13	394
	TACOM - Surge - Work Directive 012	n/a	DAAE07-00-C-L052-MOD WD012	23,627
	TACOM - SAE Clean Snowmobile Report	n/a	DAAE07-03-P-L694	1,135
	TACOM - Alternative Fuels Group	n/a	DAAE07-03-P-L751-MOD P00001	21,131
	TACOM - Alternative Fuels Group	n/a	DAAE07-03-P-L751-MOD P00001	10,150
	TACOM - Surge - Work Directive 014	n/a	DAAE07-00-C-L052-MOD P00011	468,514
	TACOM - Flex-Trax SNO-Claws Chain	n/a	W56HZV-04-C-L510-MOD P00001	36,000
	TACOM - SURGE - Work Directive 015	n/a	DAAE07-00-C-L052-MOD P00012	17,623
	USARM - Testing of Amorphous Metals	n/a	DAAD19-01-1-0492-MOD P0003	71,636
	USARM-RSI-ECBC Hyperspectral Prog	n/a	DAAD05-02-P-0588-MOD P00002	8,897
	USARM-RSI/Rainfall Hydrologic Rsch	n/a	DACW35-02-P-0089-MOD P00002	10,539
	USARM - Nano Center-DARPA	n/a	DAAD17-03-C-0115-MOD P00001	232,457
	USARM - Nano Center-DARPA	n/a	DAAD17-03-C-0115-MOD P00001	267,630
	USARM - Nano Center-DARPA	n/a	DAAD17-03-C-0115-MOD P00001	260,260
	USARM-RSI/Overlake Rainfall Estim	n/a	W911XK-04-P-0040	22,526
				1,538,268
U S Army Tank Automotive Command				
	USARM-04 Clean Snowmobile Challenge	n/a	W56HZV-04-P-L684	2,050
	USARM-Research Truck Engine Mounts	n/a	W56HZV-04-C-L522-MOD P00001	4,775
				6,825

U S Army - Cold areas research

USARM (CRREL)-Antarctic Shear Zone	n/a	DACW42-03-P-0033-MOD 00001	7
USARM/CRREL(NSR)-Antarctic Crevasse	n/a	W913E5-04-P-0026-MOD P00001	29,832
USARM/CRREL(NSR)-Antarctic Crevasse	n/a	W913E5-04-P-0026-MOD P00001	4,023
			33,862

U S Navy

NAVAL-Fungal Decay Resistance	n/a	N47408-98-M-3017-MOD P00001	2,516
USNAV-Hydraulic Pump Measurement	n/a	N00167-03-M-0618-MOD P00003	92,423
			94,939

U S Office of Naval Research

USNAV - Field Termite Test	n/a	N47408-01-P-6478	4,922
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U.S. Department of the Interior**National park service**

USPAR-Archaeol. Survey, Coal Creek	n/a	H6310010001 - J9840030127/015	8,331
USPAR-Moose Browsing/Fire Regime	n/a	1443CA6310A001-TASK001-MOD004	55
USPAR-Great Lakes Inventory Netwrk	n/a	H6310010001-AGRMT 005-MOD 001	2,415
USPAR-Kew. National Historical Park	n/a	H6310010001-TASK 007-MOD 002	4,827
USPAR/ESC-Yr 2- Bio Diversity SLBE	n/a	H6310010001-TASK 002-MOD 004	64,213
USPAR/ESC-Loon Monitor-Isle Royale	n/a	H6310010001-TASK 011-MOD 003	35,641
USPAR/ESC-Bats in Great Lks Netwrk	n/a	2105-2000-NII-TASK AGRMT NO.12	22,990
YELLO-Clean Snowmobile 03 - KRC	n/a	P1571032009	580
USPAR - Isle Royale Institute	n/a	H6310010001-TASK 001-MOD 004	4,500
USPAR/MTTI-Transport Syst-Kew Nat'l	n/a	H6310010001 - J641003K669/017	26,978
USPAR/ESC- Genetic Wolf Mat'l.	n/a	H6310010001 - J631003N007/016	15,472
USPAR - GIS for ISRO & KEWE Nat'l.	n/a	H6000C02000-AGRMT J631003N012	17,884
USPAR/ESC-Wolf-Moose IR Nat Pk	n/a	J631004N004	16,995
USPAR- Isle Royale Institute	n/a	H6000C02000-TASK J631004A021	34,418
USPAR - Mapping Coal Creek District	n/a	TASK AGRMT NO. J9840-04-0029	11,418
USPAR/ESC - Bats in Great Lks Netwrk	n/a	2105-1000-NII-MOD1-TSK AGRMT12	4,037
			270,754

U S Fish & Wildlife Service

USFIS-Assessment of Lake Sturgeon	n/a	AGRMNT NO. 301811J205-MOD 2	33,311
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U.S. Department of Transportation**Federal Aviation Administration**

FAA-Elastometric Anti-Icing Overlay	n/a	DTFA0302P10212-REVISION NO. 1	91
FAA-Elastomeric Anti-Icing Overlays	n/a	DTFACT03P10501	73,289
			73,380

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RESEARCH AND DEVELOPMENT CLUSTER - CFDA # NOT AVAILABLE - DIRECT AWARDS

Federal Agency/CFDA#	Program title/major subdivision Grant/contract title	Pass thru entity if applicable	Contract #	Expenditures
Federal Highway Administration				
	USTRA/MTTI-Aggregate Rsch-Pavements	n/a	DTFH61-02-C-00074-TSK ORDER #1	38,118
	USTRA-YEAR 5-Tribal Tech Asst Prgm	n/a	DTFH61-99-X-00011-AMD 6	167,606
	USTRA/MTTI-Resilient Modulus-Task#2	n/a	DTFH61-02-C-00074-TSK ORDER #2	209,797
	USTRA-Tribal Tech Asst Center	n/a	DTFH61-04-H-00005-AMD 4	101,864
				517,385
<u>National Aeronautics and Space Administration</u>				
n/a no subdivisions				
	NASA-RSI/Lab Studies Ice Nucleation	n/a	NAG5-10568-SUPPLEMENT 0003	91,647
	NASA-RSI - Validation of TOMS	n/a	NAG5-11062-SUPPL 0004	106,786
	NASA-YEAR 1-Gas-Turbine Combustor	n/a	NAG3-2759-SUPPL NO. 2	441
	NASA/IME-YR1-Next-Gener Ion Engine	n/a	NCC3-1030-SUPPL NO. 1	29,358
	NASA-RSI-Dvlpmnt L-Band Radiometer	n/a	NAG5-12770	4,581
	NASA-CSERI/Evaluate ESTO CT Project	n/a	NAG5-13385-SUPPLEMENT 1	66,254
	NASA-YEAR 2-Gas-Turbine Combustor	n/a	NAG3-2759-SUPPL NO. 2	66,812
	NASA/RSI-Volcano SO2-Satellite Data	n/a	NAG5-13783	24,505
	NASA/IME-YR2-Next-Genar Ion Engine	n/a	NCC3-1030-SUPPL NO. 1	26,392
	NASA - Carbon Nanotubes	n/a	NNJ04HC96G	12,309
	USNAS/RSI/NSR-Picture of Day 2003	n/a	NNG04GG99G	22,073
	USNAS/RSI-Quantify Volcano Emission	n/a	NNG04GJ67G	4,226
	NASA-RSI/Topographic Influences	n/a	NAG5-12690	4,718
				460,102
<u>National Science Foundation</u>				
n/a no subdivisions				
	NSF- IPA Assignment - Year 2	n/a	EEC-0138959-0001	12,793
	NSF-IPA Assignment-Jackie Huntoon	n/a	GEO-0353279	102,482
	NSF - Rebecca Petteys Fellowship	n/a	DGE-0004144	5,061
				120,336

U.S. Department of Energy

n/a no subdivisions

USENE-RSI / Year 4 - High Energy n/a
USENE - RSI / YEAR 5 - High Energy n/a
USENE - IPA-Geophysical Imaging n/a
USENE - RSI / YEAR 6 - High Energy n/a

DE-FG02-99ER41107-AMD A005 1,068
DE-FG02-99ER41107-AMD A005 153,461
IPA DATED 09/29/02 11,176
DE-FG02-99ER41107-AMD A005 63,456

229,161

4,215,394

Subtotal Research and Development Cluster - CFDA# not available - direct awards

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RESEARCH AND DEVELOPMENT CLUSTER - CFDA# NOT AVAILABLE - PASS THROUGH PROGRAMS

Federal Agency/CFDA#	Program title/major subdivision Grant/contract title	Pass thru entity if applicable	Contract #	Expenditures
<u>U.S. Department of Agriculture</u>				
Unknown				
	LIMES-Heat Ster Tms Six Szes 5 Hrdw	Limestone Bluffs RC & D Inc.	AGREEMENT DATED 6/1/03	16,749
	MINNE-Study Locate Decayed Timber	University of Minnesota - Duluth	1637-187-6456-7901	183
	UNIVE-Entomogy & Pathology Collect	University of California - Berkeley	SA3630 AMENDMENT 1	10,823
	MINAT-Tech Trails Model Forest	Michigan DNR	0EG 03-6	3,020
	NORTH/PBRC-eng of Cellulose Biosynt	Northern Initiatives	SUBAWAR #03-1893-01	7,924
				<u>38,699</u>
<u>U.S. Department of Commerce</u>				
National Oceanic and Atmospheric administration				
	UNIVE-RSI-Gt Lakes Photosynth Rates	University of Michigan	PO# 3000229916	14,488
	UNIVE-RSI-Great Lks Photosyn Rate	University of Michigan	PO# 3000229916	2,593
				<u>17,081</u>
<u>U.S. Department of Defense</u>				
U.S. Army				
	GSENG-Eng Support-FMTV Dump Truck	GS Engineering	PO# 1018/GSE AGREEMENT #030625	22,945
	GSENG-Thermal Mgmnt for Bradley DVE	GS Engineering	PO# 1016/GSE AGREEMENT #030619	11,350
	GSENG - FMTV Armor Kit Installation	GS Engineering	CONFIRMING ORDER # 030745	51,000
	GSENG- Revised FMTV Armor Kit	GS Engineering	1019	19,317
Unknown				
	COMPA-CSERI-Implement Parallel C	Compac Computer Corp	SBY70070	45,971
	PRATT-Accelerated Insertion of Mate	Pratt and Whitney	PO # F819741 SUP 1 & 2	100,390
	THEM-3 D Voxel-Base Bio-Ht Tnsfr Cd	Thermoanalytics Inc.	TAI-02-0325	69,996
U S Air Force				
	JOHNS/IMP-Mech Alloy'g Oxide Disper	Johns Hopkins University	SUB CONTRAT # 8201-16748	18,476
U S Army				
	PHYSI-RSI-Detection of Liquids Long	Physical Sciences Inc.	SUBCONTRACT DAAD13-02-P-0053	4,119
	UNITE-Test of T130 Long Bushings	United Defense LP	PT17678-00	1,800

UNIVE-Th/3JJ MTU Eng Rsch	University of Wisconsin	109G421 MOD # 1-3	40,699
UNIVE-Thrst 2 MTU Eng Rsch	University of Wisconsin	109G421 MOD # 1-3	7,862
UNIVE-Thrst 1 MTU Eng Rsch	University of Wisconsin	109G421 MOD # 1-3	24,233
UNIVE-Thrs/3SB Ch Eng Rsch	University of Wisconsin	109G421 MOD # 1-3	22,479
UNIVE-Ths/3SB Bio Eng Rsch	University of Wisconsin	109G421 MOD # 1-3	4,680
U S Navy			
BMTDE-Syst Ident Hydrost Trans Pend	BMT Designers and Planners Inc.	PO #04-0015	29,391
U S Air Force			
UNIVE-Atm Prp Hgh Engy Lsr	UCLA	0205-G-DB131	375,826
U S Army			
RESEA-Spnsr-Mole/Nanomtrls Dev/Appl	Research and Development Labs	SUB CONTRACT 47105-00-01	18,175
U S Army - Tank Automotive Command			
GSENG-M1 Road Arm Test Support	GS Engineering	CO#030916/PO#1036	21,720
U S Tank Automotive Command Fed Pas			
GSENG-LV 100 Eng/MIA@ Integration S	GS Engineering	P0# 1013/GSE AGREEMETN #30520	85,234
GSENG-MI Instrumentation/Testing	GS Engineering	MTU AGREEMENT # 040106	27,425
U S Army			
GSENG-Centergruide Wear Testing	GS Engineering	CO #040340	2,902
LESCO-MWO 9-2330-390-35-1 (4 Kits)	LESCO	P.O. # 5600-029-001	25,800
LESCO-Appl MWO 9-2330-390-35-1	LESCO	P.O. # 5600-028-001	25,000
NORTH-Task 1.3 Survivability Techno	Northrop Gruman Mission Systems	PO # 4600014912	59,529
THERM-Mobility SBIR 1	Thermoanalytics Inc.	SUB # TAI-03-0218	1,550
THERM-STOP WORK ORDER IN EFFECT	Thermoanalytics Inc.	THERMOANALYTICS PROJ.# E10441	43,510
UNITE-Comp Bush Durability Tst	United Defense LP	PT17129-00	19
			<hr/> 1,161,398 <hr/>

U.S. Department of the Interior

Dept of Fish & Wildlife Fed Pass:

MINAT-Gry Wof Pop Mod/Est	Michigan DNR		<hr/> 102,642 <hr/>
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U.S. Department of Transportation

Federal Highway Administration

NATIO-TC-Durability of Early-Openin	Transportation Research Board	HR 18-04B MOD 1-5	12,641
MIPOL-MTTI-Schl Prgm Safe Non-Eng	Michigan State Police	PROJECT # RS-04-03	1,773
MITRA-TC-MERL-2002/2003	MDOT	JOB # 72377	29,328
MITRA-MTTI 2003 MDOT Video	MDOT	JOB # 725650	29,809
MITRA-MTTI-04 Video Prod Completion	MDOT	# 2004-0086 JOB # 772150	21,304
MITRA-TC Phase II Spec for Hot Mix	MDOT	JOB # 568080/549570/00MTU5-1-6	108,970
MITRA-TC-Min Char/Catalog	MDOT	JOB56708/56809/01-MTU-10-1,2,3	7,232
MTRA-MTTI-Spnsr Cntr Struct Durab	MDOT	JOB#567830/03-MTU-4	8,814

**MICHIGAN TECHNOLOGICAL UNIVERSITY
SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
FOR THE YEAR ENID JUNE 30, 2004**

RESEARCH AND DEVELOPMENT CLUSTER - CFDA# NOT AVAILABLE - PASS THROUGH PROGRAMS

Federal Agency/CFDA#	Program title/major subdivision Grant/contract title	Pass thru entity if applicable	Contract #	Expenditures
	MITRA-MTTI-Spsr-Tran Materials Rsch	MDOT	JOB # 567820/03-MTU-3	36,729
	MITRA-MTTI-2003 Research Record	MDOT	JOB # 56789	8,686
	MITRA-MTTI-Devel Steel Beam End Det	MDOT	96-5434/19 (03-MTU-7)	44,423
	MITRA-TC-Resil Mod Test MI Aggr	MDOT	02-MTU-8	9,506
	MITRA-MTTI-Causes/Cures Crck Brdge	MDOT	JOB # 5995902-MTU-5	21,409
	MITRA-TC-Pre Inves Role/Con Degr	MDOT	56865/02-MTU-7	2,332
	MITRA/TDG-MTTI-LTAP 2003	MDOT	JOB # 73523/73524/73525	236,684
	MITRA-TC-Main/Electr 802P Syst	MDOT	JOB # 60295	9,433
	MITRA-TC-Optim Cost/Perf Sign Struc	MDOT	JOB # 56886-2	6,226
	MITRA-MTTI- Steel Overhd Sign Sup	MDOT	JOB # 56893	18,290
	MITRA-MTTI-Comp Stell OVH Sign Supp	MDOT	JOB # 56886	14,948
	MITRA/MTTI/TDG-2004 Roadsoft	MDOT	2004-0053 JOB # 78248	252,922
	MITRA-MTTI-Roadsoft 2003	MDOT	MTU 1996-AUTHORIZATION Z-M13	289,700
	MITRA-MTTI-Phase I CPR 2003	MDOT	JOB # 6003/CONTRACT 1996-5434	13,972
	UNIVE-MTTI-MI HPMS Train/Publishing	MDOT	PO # 59IN3006372	6,455
	MITRA-MITTI/LRFD Load Cllibration	MDOT	MASTER 2003-0063/JOB # 56815	45,380
	MITRA-MTTI-Concrete/Asphalt Video M	MDOT	PO # 591N4001845/591N4004560	23,443
	MITRA-MTTI-MCLS 2004	MDOT	CONTRACT 2003-0709 JOB #40617C	9,649
	NATIO-Counter Meas Protect Bridge	National Academy of Sciences	CONTRACT # HR24-18A	90,380
	SOUTH-MTTI-Lng Effcts Mag Magnes	South Dakota DOT	CONTRAT # 310802	135,768
	WITRA-MTTI-Sps-Tst WI Asphalt Mix	Wisconsin DOT	PROJECT ID 009-04-07	12,608
	WITRA-MTTI-Eval Meth Air Void Sys	Wisconsin DOT	PROJECT ID 0092-03-16	44,948
				<u>1,553,762</u>

National Aeronautics and Space Administration

n/a no subdivisions

MAUNA - The Near Infrared Imager	Mauna Kea Infrared	NIKI0001 AMENDMENT # 4	1,395
MAUNA-Near Infrared Imager	Mauna Kea Infrared	NIKI0001 AMENDMENT # 4	27,563
UNIVE-Model Funct Graded Materials	University of Michigan	CHECK # 655990	1,660
UNIVE-Rout Process of Terr & Therm	University of Michigan	CHECK # 465763	108
UNIVE-Edu Astron Cosomos Web Site	University of Michigan	CHECK # 834013	3,510

UNIVE-New Bifunct Cat Carb/Diox Rec	University of Michigan	CHECK # 834013	4,054
UNIVE-Dev/Dep Mini-UV Spectrometer	University of Michigan	CHECK # 834013	2,788
UNIVE-Infra Spectro Ice Nucleation	University of Michigan	CHECK # 834013	4,596
			<hr/> 45,674 <hr/>

National Science Foundation

n/a no subdivisions

EDUCA-NSF Middleware Init	EDUCAUSE	020431	286
UNIVE-Deter Elect/Neutrino Rst Ms	University of Texas	UTA03-036 AMENDMENT 2	30,435
UNIVE-CSERI-Dv Comp Frmwk Atm CTMs	University of Iowa	PO # 4000088271	2,774
UCAID-03/04 Middleware Initiative	UCAID	INTERNET 2 AGREEMENT	77,408
			<hr/> 110,903 <hr/>

U.S. Environmental Protection Agency

n/a no subdivisions

BATTE-SFI-Comp Assist Cntr Chem Ind	Battelle Memorial Institute	408379-B-J4/CONT # 1042	820
NEETF-A Safe Water First Approach	NEETF	AGREEMENT # 98-08H	4,702
			<hr/> 5,522 <hr/>

U.S. Department of Energy

n/a no subdivisions

BATTE-Lab Testing Deicing Chemicals	Battelle Memorial Institute	PO # 182800	6,800
FIRMI-RSI Auger Observatory Souther	FERMILAB	PO 521464	65,497
GENER-Dev Partic Filter/Matlab/Sim	General Motors Corp.	TCS51365	73,018
HUNTI/IMP-Transient Liquid Ph of ODS	Huntington Alloys	PO# 222976	1,427
JOHND-Model Partic Trap/Diesel Eng	John Deere	PO #871943PE	3,489
OAKRI-Accessories Hardness Tstr	Oak Ridge National Laboratory	PO # 4000023672/LN ITEM 00002	9,585
OAKRI-Dynamic Hardness Tester	Oak Ridge National Laboratory	PO # 4000023672/LN ITEM 00001	12,989
OAKRI-Install Hardness Tester/Trng.	Oak Ridge National Laboratory	PO # 4000025614/LN ITEM 00001	7,000
PACIF-PERC-Par Est/Advan/Trns Mdls	Pacific Engineering Corp	CONT # 00001136	40,244
SANDI-Sabbatical Research at Sandia	Sandia National Labs	209873	61,500
UESIN-IME Dev/Ion Beam Tech	UES Inc.	UES PROJECT # P721	1,770
UESIN-IME Dev/Ion Beam Tech	UES Inc.	UES PROJECT # P721	1,556
UESIN-IME/Layer Splitting Oxide Mat	UES Inc.	S-721-000-002	57,326
UESIN-IME/Layer Splitting Oxide Mat	UES Inc.	S-721-000-002	39,750
UNIVE-Struct Character Battery Mat	University of Chicago	OF-00544 MOD 1-4	13,599
UNIVE-Metreorological QA and Subway	University of Chicago	OF-01144	10,084
UNIVE-Invest of Electro Micromirror	Boston University	GC177552NGD	3,653

**MICHIGAN TECHNOLOGICAL UNIVERSITY
SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
FOR THE YEAR ENID JUNE 30, 2004**

RESEARCH AND DEVELOPMENT CLUSTER - CFDA# NOT AVAILABLE - PASS THROUGH PROGRAMS

Federal				
Agency/CFDA#	Program title/major subdivision			
	Grant/contract title	Pass thru entity if applicable	Contract #	Expenditures
	UTBAT-Scratch Hardness Tester	UT Battelle Inc	SUBCONTRACT #4000028362	16,000
	UTBAL-Plast Lmt for Struct Ceramics	UT Battelle Inc	SUBCONTRACT #4000031515	898
	NORTH/ESC-Down & Up Lignin Biosyn	North Carolina State University	SUBAWARD #03-1125-01	39,677
				<u>465,862</u>
 <u>U.S. Agency for International Development</u>				
	n/a no subdivisions			
	AMERI-TrainCore Wat Rs Exp	American Council on Education	AGREEMENT DATED 2/20/03	<u>104,750</u>
 <u>Various Federal Sources</u>				
	UNITE-IME-Constit Mdl Propul Sys Pr	United Technologies Corp	CONTRACT # 24100	<u>41,689</u>
Subtotal Research and Development Cluster - CDFA# not available - pass through programs				<u>3,647,982</u>
 TOTAL RESEARCH AND DEVELOPMENT CLUSTER OF PROGRAMS				<u>18,669,649</u>

**MICHIGAN TECHNOLOGICAL UNIVERSITY
SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
FOR THE YEAR ENID JUNE 30, 2004**

U.S. DEPARTMENT OF EDUCATION - STUDENT FINANCIAL AID CLUSTER OF PROGRAMS

Federal				
Agency/CFDA#	Program title/major subdivision			
	Grant/contract title	Pass thru entity if applicable	Contract #	Expenditures
84.033	Federal work study program	n/a		296,206
84.063	Federal pell grant program	n/a		2,834,511
84.066	Federal supplemental education opportunity grant	n/a		223,323
84.038	Federal Perkins loan program	n/a		2,697,298
84.268	Federal direct loan program	n/a		16,298,517
TOTAL STUDENT FINANCIAL AID CLUSTER OF PROGRAMS				<u>22,349,855</u>

**MICHIGAN TECHNOLOGICAL UNIVERSITY
SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
FOR THE YEAR ENID JUNE 30, 2004**

**FEDERAL AWARD PROGRAMS NOT INCLUDED IN RESEARCH & DEVELOPMENT OR STUDENT FINANCIAL
AID CLUSTERS - WITH CFDA#S**

Federal Agency/CFDA#	Program title/major subdivision Grant/contract title	Pass thru entity if applicable	Contract #	Expenditures
<u>U.S. Department of Commerce</u>				
11.300	Public works and economic development facilities			
	Advanced Technology Design ATDC/EDA	n/a	06-01-04694	<u>1,617,959</u>
<u>U.S. Department of Labor</u>				
17.600	Mine health and safety grants			
	USLAB/IMP-FY2003-Year2-Mi Mine Sfty	n/a	E4R3001919-MOD 1	106,011
	USLAB-FY2004-YEAR3-Mi Mine Safety	n/a	E4R3001919-MOD 2	106,031
				<u>212,042</u>
<u>U.S. Department of Transportation</u>				
20.215	Highway training and education			
	USTRA/MTTI-Kristina Fields Fellowsh	n/a	DDEGRD-03-X-00416-MOD #1	<u>9,298</u>
<u>National Foundation on the Arts and Humanities</u>				
45.312	National leadership grants			
	IMLS - Advancing the New Museum	n/a	CM-10023-01	<u>6,122</u>
<u>National Science Foundation</u>				
47.076	Education and human resources			
	NSF-Engineering in Pre-College Ed	n/a	DUE-9953189 AMD 004	32,460
	NSF-Engineering in Pre-College Ed	n/a	DUE-9953189 AMD 004	16,940
	NSF-Engineering in Pre-College Ed	n/a	DUE-9953189 AMD 004	1,577
	NSF-Knowledge Mgmt Infrastructure	n/a	EHR-0125380	115,095
	NSF-Grad/Undergrad Engg Initiatives	n/a	DUE-0220500	71,464
	TENNE-IMP-Sponsor-Tchrs Erth Sci	Tennessee Tech	SUB CONTRACT DATED 6/7/04	32,107
	TENNE-IMP-Particip-Tchrs Earth Sci	Tennessee Tech	SUB CONTRACT DATED 6/7/04	1,238
				<u>270,881</u>

U.S. Environmental Protection Agency

66.951	Environmental education grants				
	EPA - Earth Week Incentive Program	n/a	NE-96505201-0		3,647

U.S. Department of Energy

81.086	Conservation and research development				
	USENE-Ignition Improvement-Lean Gas	n/a	DE-FC26-02NT41443-AMD A004		7,760

U.S. Department of Education

84.116	Fund for the improvement of postsecondary education				
	USEDU-YR 2-N. Am Mobility-Higher Ed	n/a	P116N000021-03-ACTION NO. 04	441	
	USEDU-YR 3-N. Am Mobility-Higher Ed	n/a	P116N000021-03-ACTION NO. 04	22,122	
	USEDU-YR 4-N. Am Mobility-Higher Ed	n/a	P116N000021-03-ACTION NO. 04	16,072	
					38,635

84.185	Byrd honors scholarships				
	Robert C. Byrd Honors	n/a			44,250

84.200	Graduate assistants in areas of national need				
	USEDU-YEAR 1-GAANN:Chem Eng Fellows	n/a	P200A030192-ACTION NO. 01		65,963

84.281	Eisenhower professional development grants				
	MIEDU-Impr Tchr Quality Prof Dev Pr	Michigan Department of Education	030290-205		84,206

84.367B	Improving teacher quality state grants				
	MIEDU-Spnsr Imp Tchr Qual Social St	Michigan Department of Education	030290-909		16,586

TOTAL FEDERAL AWARD PROGRAMS NOT INCLUDED IN RESEARCH & DEVELOPMENT OR STUDENT FINANCIAL AID CLUSTERS - WITH CFDA#S					2,377,349
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**MICHIGAN TECHNOLOGICAL UNIVERSITY
SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
FOR THE YEAR ENID JUNE 30, 2004**

**FEDERAL AWARD PROGRAMS NOT INCLUDED IN RESEARCH & DEVELOPMENT OR STUDENT FINANCIAL
AID CLUSTERS - CFDA# NOT AVAILABLE**

Federal Agency/CFDA#	Program title/major subdivision Grant/contract title	Pass thru entity if applicable	Contract #	Expenditures
<u>U.S. Department of Commerce</u>				
National Oceanic and Atmospheric Administration				
	UNIVE-Planktonic Biodiversity	University of Michigan	PO 300430405	<u>7,000</u>
<u>U.S. Department of Agriculture</u>				
U S Forest Service				
	USAGR-Lk States Silviculture Course	n/a	43-56A1-3-0043-SUB 02	27,577
	WESTE-WUPHTN Sign Proj Impl Plan	Western UP Heritage Trail	CO #031047	<u>4,966</u>
				<u>32,543</u>
<u>U.S. Department of the Interior</u>				
National Park Service				
	YELLO-Clean Snowmobile Challenge 04	n/a	P1571042020	<u>1,813</u>
<u>U.S. Department of Transportation</u>				
Federal Highway Administration				
	USTRA-MTTI-Const Warranty Symposium	n/a	2302PMW050596 000 - AMD 0002	24,757
	USTRA-MTTI-Intersection Safety	n/a	ORDER # 23-03-002600-013-0000	<u>17,278</u>
				<u>42,035</u>
<u>National Aeronautics and Space Administration</u>				
n/a no subdivisions				
	UNIVE-MI Spc Grant Administrative	University of Michigan	CHECK # 655990	499
	UNIVE-H Sherman-Ana/Ura Jacobsville	University of Michigan	CHECK # 655990	2,339
	UNIVE-C Bergstrom-Mosb Spectra/Naro	University of Michigan	CHECK 655990	234
	UNIVE-I Kowalczyk-Pred/Fail Aero Ap	University of Michigan	CHECK # 655990	462
	UNIVE-MI Spc Grnt Const Admin	University of Michigan	CHECK # 868549	1,265
	UNIVE-Women/Exploration in Engineer	University of Michigan	CHECK # 834013	5,000
	UNIVE-Su Yth 03 Into/Adv Space Scie	University of Michigan	CHECK # 834013	5,185
	UNIVE-Lindsay Godin-Bio Path inBone	University of Michigan	SPACE GRT CHK #1040905	5,000
	UNIVE-Meghan McGee-Black Bear Bones	University of Michigan	SPACE GRT CHK#1040905	2,500
	UNIVE-Joel Vance-3D Bone Tissue	University of Michigan	SPACE GRT CH#1040905	5,000

UNIVE-Virtual Field Experience	University of Michigan	CHECK #834014	3,000
UNIVE-Quant Hydrogeological Contro	University of Michigan	CHECK #834014	4,949
UNIVE-Effect of Hibern on Bear Bone	University of Michigan	CHECK #834014	2,500
UNIVE-FAK/MAPK Signal Transduction	University of Michigan	CHECK #834014	719
UNIVE-Inv Data Pattern Volcanic Eve	University of Michigan	CHECK #834014	5,000
UNIVE-Rdar Refl & Rain Est fr Space	University of Michigan	CHECK #834014	2,278
UNIVE-Multisp Analysis Erupt Clouds	University of Michigan	CHECK #834014	2,500
UNIVE-JAK/STAT Signal Mscl Mechan	University of Michigan	CHECK #834014	563
			48,993

National Science Foundation

n/a no subdivisions

UCAID-NSF Middle Init A West	UCAID	MTU AGREEMENT # 011032	18,397
UCAID-NSF Middleware Init T Piket	UCAID	MTU # 011032P3	24,750
NSF - Katerina Aifantis Fellowship	n/a	DGE-0004144	2,291
NSF-Jennifer McConville Fellowship	n/a	DGE-0004144	32,015
NSF - Angela Arpke Fellowship	n/a	DGE-0004144	36,527
NSF - Jacob Fugal Fellowship	n/a	DGE-0004144	35,579
			149,559

U.S. Department of Education

Unknown

COPPE-02/03 Su Inst for Tech	Copper Country ISD	LETTER DATED NOVEMBER 8, 2002	18,115
MIEDU-Impr Teach Quality - Science	Michigan Department of Education	GRANT # 030290-917	19,750
			37,865

National Foundation on Arts and Humanities

Institute of Museum & Library Services

Mineral Museum Exhibit Design	n/a	CM-10023-01	22,965
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TOTAL FEDERAL AWARD PROGRAMS NOT INCLUDED IN RESEARCH & DEVELOPMENT OR STUDENT FINANCIAL AID CLUSTERS - CFDA# NOT AVAILABLE

342,773

TOTAL EXPENDITURES OF FEDERAL AWARDS

\$ 43,739,626

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, 2004

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, 84.066, 84.268	Student financial assistance cluster
Various	Research and development cluster

Dollar threshold to distinguish between type A and type B programs:	\$1,312,189
Auditee qualified as a low risk auditee?	Yes

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.