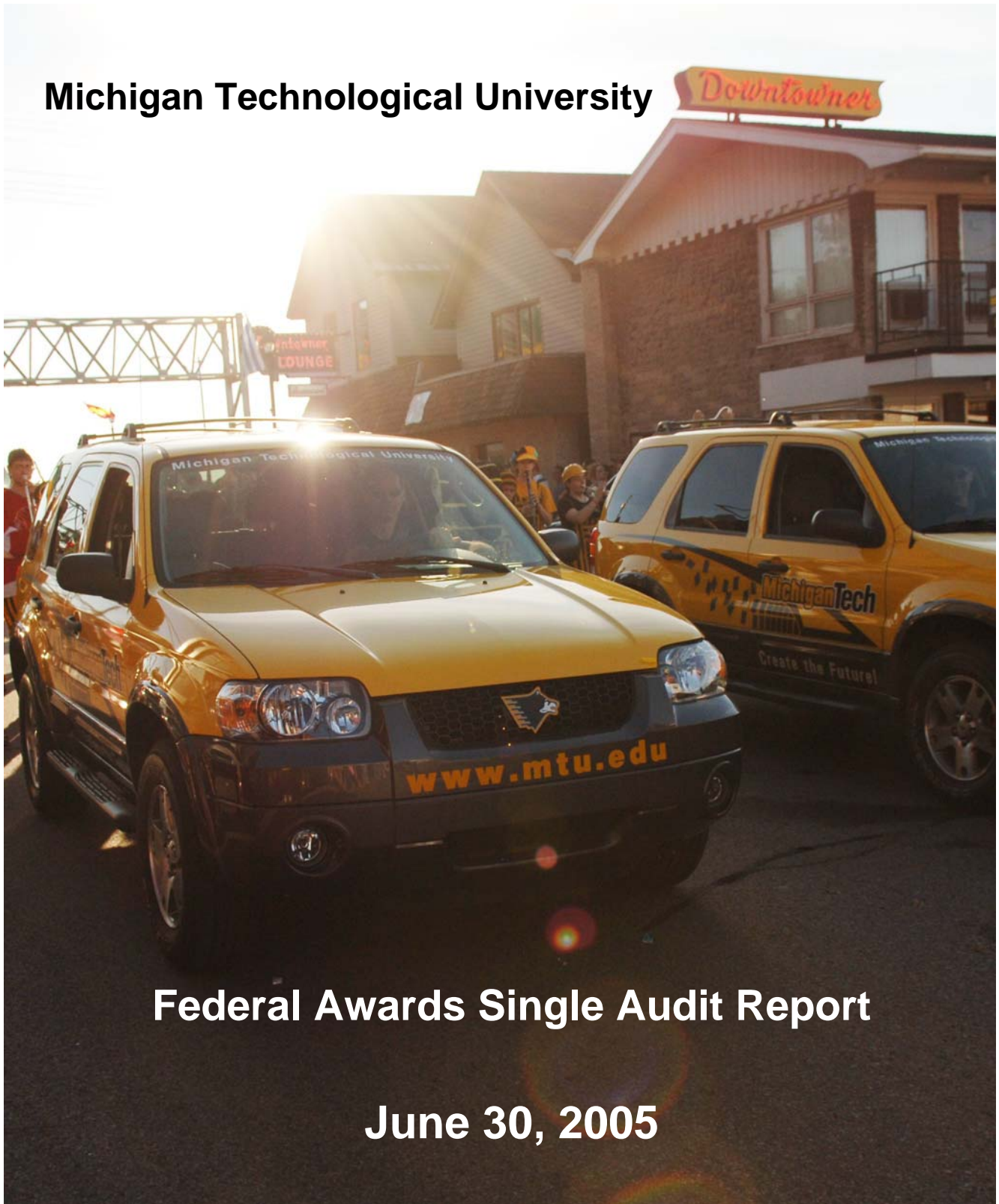


Michigan Technological University



Federal Awards Single Audit Report

June 30, 2005

MICHIGAN TECHNOLOGICAL UNIVERSITY

SINGLE AUDIT REPORT

TABLE OF CONTENTS

	<u>PAGE</u>
Independent Auditors' Report on Internal Control Over Financial Reporting and on Compliance and Other Matters Based on an Audit of Financial Statements Performed in Accordance with <i>Government Auditing Standards</i>	1-2
Independent Auditors' Report on Compliance with Requirements Applicable to each Major Program and Internal Control over Compliance in Accordance with OMB Circular A-133	3-4
Schedule of Expenditures of Federal Awards	5-34
Schedule of Findings and Questioned Costs	35-36



REHMANN ROBSON

Certified Public Accountants

A member of THE REHMANN GROUP

An Independent Member of Baker Tilly International

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

November 4, 2005

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, 2005 and have issued our report thereon dated November 4, 2005. 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.

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 an opinion 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 reportable 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 caused by error or fraud 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.

Compliance and Other Matters

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 grant agreements, 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 or other matters that are required to be reported under *Government Auditing Standards*.

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

Rehmann Lobson



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**

November 4, 2005

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, 2005. 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, 2005.

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 reportable 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 caused by error or fraud 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, 2005 and have issued our report thereon dated November 4, 2005. 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 purposes 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 cursive script that reads "Lehmann Johnson".

MICHIGAN TECHNOLOGICAL UNIVERSITY
SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
FOR THE YEAR ENDED JUNE 30, 2005

RESEARCH AND DEVELOPMENT CLUSTER - CFDA NUMBER 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				
10.202	Cooperative forestry research			
	MS - 04 - Rsch Admin	n/a	FY04 MCINTIRE STENNIS	\$ 44,828
	MS-FY04-Canada Yew	n/a	FY04 MCINTIRE STENNIS	2,148
	MS-FY04-Mortality Model	n/a	FY04 MCINTIRE STENNIS	1,863
	MS-04-Sarracenia Purpurea	n/a	FY04 MCINTIRE STENNIS	722
	MS-FY04-West Up Land Use	n/a	FY04 MCINTIRE STENNIS	3,476
	MS/BRC-FY04-Molecular Genetics	n/a	FY04 MCINTIRE STENNIS	4,338
	MS-FY04-Wood Stake Decomp.	n/a	FY04 MCINTIRE STENNIS	717
	MS-FY04-Greenhouse Gases	n/a	FY04 MCINTIRE STENNIS	7,000
	MS-FY04-Carbon Cycling	n/a	FY04 MCINTIRE STENNIS	1,650
	MS-FY04-Mold Growth	n/a	FY04 MCINTIRE STENNIS	2,558
	MS-FY04-Pennsylvania Sedge	n/a	FY04 MCINTIRE STENNIS	4,493
	MS-FY04-Sale-Thimbleberry	n/a	FY04 MCINTIRE STENNIS	997
	MS-FY04-Wolf/Moose Monitor	n/a	FY04 MCINTIRE STENNIS	5,566
	MS-FY04-Hrdwd Defect Image	n/a	FY04 MCINTIRE STENNIS	6,656
	MS-FY04-Jack Pine Forests	n/a	FY04 MCINTIRE STENNIS	1,665
	MS/BRC-FY04-Cryopreservation	n/a	FY04 MCINTIRE STENNIS	3,055
	MS-FY04-Plague of Maples	n/a	FY04 MCINTIRE STENNIS	2,222
	MS/BRC - Tree Biotechnology	n/a	FY04 MCINTIRE STENNIS	3,184
	MS-FY05-BRC-Tree Biotech	n/a	FY05 MCINTIRE-STENNIS	4,442
	MS-05-Sarracenia Purpurea	n/a	FY05 MCINTIRE-STENNIS	2,852
	MS-FY05-Research Admin.	n/a	FY05 MCINTIRE-STENNIS	71,584
	MS-FY05- Canada Yew	n/a	FY05 MCINTIRE-STENNIS	6,220
	MS-FY05-Mortality Model	n/a	FY05 MCINTIRE-STENNIS	6,313
	MS-05-Local Land Use Plan	n/a	FY05 MCINTIRE-STENNIS	4,910
	MS/BRC-FY05-Molecular Gene	n/a	FY05 MCINTIRE-STENNIS	6,963
	MS-FY05-Carbon Cycling	n/a	FY05 MCINTIRE-STENNIS	7,040
	MS-FY05 - Mold Growth	n/a	FY05 MCINTIRE-STENNIS	4,475
	MS-FY05-Pennsylvania Sedge	n/a	FY05 MCINTIRE-STENNIS	3,941
	MS-FY05-Sale Thimbleberry	n/a	FY05 MCINTIRE-STENNIS	3,242
	MS-FY05-Wolf/Moose Monitor	n/a	FY05 MCINTIRE-STENNIS	942
	MS-FY05-Log Bucker Train	n/a	FY05 MCINTIRE-STENNIS	7,690
	MS-FY05-Jack Pine Forests	n/a	FY05 MCINTIRE-STENNIS	2,426
	MS/BRC-FY05-Tree Germplasm	n/a	FY05 MCINTIRE-STENNIS	7,008
	MS-FY05-Acer Platanoides	n/a	FY05 MCINTIRE-STENNIS	1,311
	MS-FY05-Fiber Production	n/a	FY05 MCINTIRE-STENNIS	5,002
	MS-FY05-Veg & Dis Reg	n/a	FY05 MCINTIRE-STENNIS	4,534
				248,033

Continued

MICHIGAN TECHNOLOGICAL UNIVERSITY
SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
FOR THE YEAR ENDED JUNE 30, 2005

RESEARCH AND DEVELOPMENT CLUSTER - CFDA NUMBER AVAILABLE - DIRECT AWARDS

Federal Agency/CFDA#	Program title/major subdivision Grant/contract title	Pass thru entity if applicable	Contract #	Expenditures
10.206	Grants for agricultural research - Competitive research grants			
	USAGR-Wood Composite Panels	n/a	2001-35504-10042	1,833
	USAGR-PBC/Molecular Dissection	n/a	2003-35103-12906	60,540
	USAGR/ESC-Resp-Fine Root Chemistry	n/a	2001-35107-11262	90,696
	USAGR-PBC/Syringyl Monolignol Gene:	n/a	2002-35301-12048	59,568
	USAGR-PBC/Functional Gene Discovery	n/a	2004-35300-14687	37,941
	USAGR/ESC-Ecophysiological Response	n/a	2004-35102-14782	40,060
	USAGR/BRC - Real-Time PCR System	n/a	2005-35103-15251	12,500
	USAGR/BRC -GRA-Genetic Engrg Trees	n/a	2005-35103-15256	14,438
	USAGR-GRA-Functional Gene Discovery	n/a	2004-35300-14687	4,231
				321,806
10.219	Biotechnology risk assessment research			
	USAGR-PBC/Ecol Consequences Aspen	n/a	00-39210-9812	4,871
	USAGR/ESC-PBC/Ecol Conseq Aspen	n/a	00-39210-9812	6,584
				11,455
10.652	Forestry research			
	USAGR/ESC-Carbon & Nitrogen Cycling	n/a	04-CA-11242343-069	5,526
	USAGR/ESC-Carbon & Nitrogen Cycling	n/a	04-CA-11242343-069	62,225
	USAGR-Incipient Decay Hdwd Timber	n/a	04-CA-11242343-046	800
	USAGR/ESC-Carbon & Nitrogen Cycling	n/a	04-CA-11242343-069	28,264
				96,815
10.664	Cooperative forestry assistance			
	USAGR-Detection Emerald Ash Borer	n/a	03-DG-11244225-084-MOD NO. A1	2,340
	USAGR/ESC-Eval Health of Ash Trees	n/a	03-CA-11244225-577-MOD NO. A3	31,951
	USAGR/ESC -Detect Emerald Ash Borer	n/a	04-CA-11244225-321-MOD NO. A1	174,841
	USAGR/ESC-Eval Health of Ash Trees	n/a	03-CA-11244225-577-MOD NO. A3	76,683
	USAGR/ESC-Interactions in Red Pine	n/a	05-CA-11244225-153	27,811
	USAGR/ESC-GRA-Eval Health Ash Trees	n/a	03-CA-11244225-577-MOD NO. A3	2,079
				315,706
10.772	Empowerment zones programs			
	USAGR-Recycle Value Added Parts	n/a	03-DG-11244225-476-MOD A1	3,191

Continued

MICHIGAN TECHNOLOGICAL UNIVERSITY
SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
FOR THE YEAR ENDED JUNE 30, 2005

RESEARCH AND DEVELOPMENT CLUSTER - CFDA NUMBER AVAILABLE - DIRECT AWARDS

Federal Agency/CFDA#	Program title/major subdivision Grant/contract title	Pass thru entity if applicable	Contract #	Expenditures
10.673	Wood in transportation program			
	USAGR-Rd Pine/Eastern Hemlock Bridg	n/a	04-DG-11244225-469	<u>5,927</u>
10.680	Forest health protection			
	USAGR-Garlic Mustard invasion in Mi	n/a	05-DG-11244225-044	350
	USAGR/ESC -Mi/Wis Emerald Ash Borer	n/a	05-CA-11244225-071	139,435
	USAGR-GRA-Garlic Mustard Invasior	n/a	05-DG-11244225-044	329
				<u>140,114</u>
<u>U.S. Department of Commerce</u>				
11.431	Climate and atmospheric research			
	USCOM-RSI/ Year 2 - PICO-NARE Site	n/a	NA16GP1658-AMD NO. 2	372
	USCOM-RSI-FT/MBL Measurements-Azore	n/a	NA03OAR4310002-AMD NO. 2	202,634
	USCOM-RSI-YEAR 2-Climate Forecasts	n/a	NA16GP2947-AMD NO. 2	21,071
	USCOM-RSI/ Year 3 - PICO NARE Site	n/a	NA16GP1658-AMD NO. 2	83,279
				<u>307,355</u>
11.609	Measurement and engineering research and standards			
	NIST/IME-Carbon-Nanotube/Polymers	n/a	70NANB3H1130	<u>2,319</u>
<u>U.S. Department of Defense</u>				
12.300	Basic and applied scientific research			
	OFFIC-IME/Breathing Photonic Cryst	n/a	N00014-03-1-0038-MOD P00002	71,485
	OFFIC-IME/Breathing Photonic Cryst	n/a	N00014-03-1-0038-MOD P00002	28,284
	OFFIC/IME-Support for NQR Explosive	n/a	N00173-04-1-G011-MOD # P00001	49,293
	OFFIC-IME-GRA-Photonic Crystals	n/a	N00014-03-1-0038-MOD P00002	32,684
	OFFIC-IME-GRA-Photonic Crystals	n/a	N00014-03-1-0038-MOD P00002	17,906
				<u>199,653</u>
12.630	Basic, applied, and advanced research in science and engineering			
	USAIR-Ground-Test Facility/Thruster	n/a	F49620-03-1-0300	<u>27</u>

Continued

MICHIGAN TECHNOLOGICAL UNIVERSITY
SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
FOR THE YEAR ENDED JUNE 30, 2005

RESEARCH AND DEVELOPMENT CLUSTER - CFDA NUMBER AVAILABLE - DIRECT AWARDS

Federal Agency/CFDA#	Program title/major subdivision Grant/contract title	Pass thru entity if applicable	Contract #	Expenditures
12.800	Air force defense research sciences program			
	USAIR/IME-YR1-Liquid-Metal Anode	n/a	F49620-03-1-0027-MOD P00002	519
	USAIR-YR1-Nanosatellite Demonstrate	n/a	F49620-03-1-0139-MOD P0002	7,265
	USAIR-Multi-Channel LADAR Process.	n/a	F08630-03-1-0015-MOD P00001	5,651
	USAIR-Nanotube-Reinforced Polymer	n/a	F49620-03-1-0442-MOD P00001	27,463
	USAIR-YR2-Nanosatellite Demonstrate	n/a	F49620-03-1-0139-MOD P0002	19,557
	USAIR/IME-YR2-Liquid-Metal Anode	n/a	F49620-03-1-0027-MOD P00002	37,567
	USAIR-YR1-PECASE: Bismuth Thruster	n/a	FA9550-05-1-0001	95,406
	USAIR-YR3-Nanosatellite Demonstrate	n/a	F49620-03-1-0139-MOD P0002	11,533
	USAIR/IME-YR3-Liquid-Metal Anode	n/a	F49620-03-1-0027-MOD P00002	31,828
	USAIR/IME-GRA-Liquid-Metal Anode	n/a	F49620-03-1-0027-MOD P00002	18,402
				255,192
12.901	Mathematical sciences grant program			
	NATIO-Codes,Designs,Finite Geometry	n/a	MDA904-03-1-0088-MOD P00001	21,293
	NATIO-Symmetric Objects in Coding	n/a	H98230-05-1-0088	13,917
				35,210
U.S. Department of Interior				
15.228	National fire plan - wildlife urban interface community fire assistance			
	USFIS-Firebreaks at Seney NWR	n/a	AGRMNT NO. 301813J066	10,304
15.808	U.S. Geological Survey - Research and data acquisition			
	USGEO - Year 4 - Boreal Ecosystem	n/a	00CRAG0041-AMD 0005	19,148
National Science Foundation				
47.041	Engineering grants			
	NSF-Projects to Assist Disabled	n/a	BES-0079969-AMD 010	14,465
	NSF/CLASM-Selection Indstrl Coating	n/a	DMI-0084903	46,988
	NSF-REU-Projects to Assist Disabled	n/a	BES-0079969-AMD 010	3
	NSF/SFI-Metrics Envir Remediation	n/a	BES-0083112	5,815
	NSF-Internal Condensing Flows	n/a	CTS-0086988-AMD 002	(1,388)
	NSF-IME/Planar Magn Photonic Crystl	n/a	ECS-0115315-AMD 004	5,573
	NSF-IME/Planar Magn Photonic Crystl	n/a	ECS-0115315-AMD 004	7,604
	NSF-(REU) Internal Condensing Flows	n/a	CTS-0086988-AMD 002	54
	NSF-IME/(REU/RET)-Photonic Crystals	n/a	ECS-0115315-AMD 004	2,526
	NSF-GOALI: Design Extrusion Dies	n/a	DMI-0200091	83,989
	NSF/CLASM - Product Modularity	n/a	DMI-0323497-AMD 001	71,599

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MICHIGAN TECHNOLOGICAL UNIVERSITY
SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
FOR THE YEAR ENDED JUNE 30, 2005

RESEARCH AND DEVELOPMENT CLUSTER - CFDA NUMBER AVAILABLE - DIRECT AWARDS

Federal Agency/CFDA#	Program title/major subdivision Grant/contract title	Pass thru entity if applicable	Contract #	Expenditures
	NSF-GOALI-Ultrafine Grained Ceramic	n/a	CMS-0324461-AMD 002	81,115
	NSF - High Speed Digital Imaging	n/a	CTS-0321003	803
	NSF-Curriculum-Service Sector Engrg	n/a	EEC-0343187	36,089
	NSF-NEES/E-Defense Collaboration	n/a	CMS-0349433-AMD 001	15,799
	NSF - (REU) Product Modularity	n/a	DMI-0323497-AMD 001	9,785
	NSF - Rayleigh-Taylor Instability	n/a	CTS-0325743	32,230
	NSF-CAREER: Fluid Dynamics	n/a	CTS-0348058	57,302
	NSF-REU-Projects to Assist Disabled	n/a	BES-0079969-AMD 010	4,759
	NSF-Electr Engg for Non-EE Majors	n/a	EEC-0415962-AMD 002	62,631
	NSF-Electr Engg for Non-EE Majors	n/a	EEC-0415962-AMD 002	6,143
	NSF-Electr Engg for Non-EE Majors	n/a	EEC-0415962-AMD 002	4,891
	NSF-Electr Engg for Non-EE Majors	n/a	EEC-0415962-AMD 002	2,835
	NSF-Electr Engg for Non-EE Majors	n/a	EEC-0415962-AMD 002	5,641
	NSF-Electr Engg for Non-EE Majors	n/a	EEC-0415962-AMD 002	9,745
	NSF/SFI - BE/MUSES:Renewable Energy	n/a	ECS-0439089	17,957
	NSF/SFI - BE/MUSES:Renewable Energy	n/a	ECS-0439089	37,517
	NSF/SFI - BE/MUSES:Renewable Energy	n/a	ECS-0439089	4,825
	NSF/SFI - BE/MUSES:Renewable Energy	n/a	ECS-0439089	5,026
	NSF/SFI - BE/MUSES:Renewable Energy	n/a	ECS-0439089	4,464
	NSF/SFI - BE/MUSES:Renewable Energy	n/a	ECS-0439089	10,925
	NSF/SFI - BE/MUSES:Renewable Energy	n/a	ECS-0439089	4,710
	NSF/SFI - BE/MUSES:Renewable Energy	n/a	ECS-0439089	11,628
	NSF- ITR: Mobile Remote Monitoring	n/a	ECS-0427430-AMD 001	28,847
	NSF - ITR: Mobile Remote Monitoring	n/a	ECS-0427430-AMD 001	16,313
	NSF - Undergrad Enterprise #1	n/a	ECS-0427430-AMD 001	2,291
	NSF - Undergrad Enterprise #2	n/a	ECS-0427430-AMD 001	1,915
	NSF - Undergrad Enterprise #3	n/a	ECS-0427430-AMD 001	1,312
	NSF-Undergrad Fabricated Equipment	n/a	ECS-0427430-AMD 001	2,200
	NSF-REU-Elect Eng for Non-EE Majors	n/a	EEC-0415962-AMD 002	8,927
	NSF- REU - Mobile Remote Monitoring	n/a	ECS-0427430-AMD 001	2,200
	NSF/SFI - REU in Sustainability	n/a	EEC-0453174	26,277
	NSF/SFI - Thermoplastic Resins	n/a	DMI-0456537	22,183
	NSF - REU - GOALI:Grained Ceramics	n/a	CMS-0324461-AMD 002	2,251
	NSF-GRA-ITR: Mobile Remote Monitor	n/a	ECS-0427430-AMD 001	2,663
	NSF-GRA-ITR-Mobile Remote Monitor	n/a	ECS-0427430-AMD 001	12,436
	NSF/SFI - GRA -Thermoplastic Resins	n/a	DMI-0456537	6,067
	NSF - CAREER: GRA	n/a	CTS-0348058	6,710
	NSF-GRA-Eelctr Engg for Non EE	n/a	EEC-0415962-AMD 002	812
				807,448

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MICHIGAN TECHNOLOGICAL UNIVERSITY
SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
FOR THE YEAR ENDED JUNE 30, 2005

RESEARCH AND DEVELOPMENT CLUSTER - CFDA NUMBER AVAILABLE - DIRECT AWARDS

Federal Agency/CFDA#	Program title/major subdivision Grant/contract title	Pass thru entity if applicable	Contract #	Expenditures
47.049	Mathematical and physical sciences			
	NSF-Model for Polymeric Fluids	n/a	DMS-0096847	866
	NSF-Adaptive Optical Telescopes	n/a	AST-0123466	186,068
	NSF-ITR: Computing Sky in Real Time	n/a	AST-0218991-AMD 001	568
	NSF/IME-General Ensemble Algorithms	n/a	CHE-0313618	44,544
	NSF/IME/Equilibrium Thermodynamics	n/a	DMR-0348895-AMD 001	72,118
	NSF-Properties Lanthanide & Actinide	n/a	PHY-0354793-AMD 001	50,916
	NSF-IME - Heterogeneous Nucleation	n/a	CHE-0410007-AMD 001	38,061
	NSF-IME/Participant Support-Travel	n/a	DMR-0348895-AMD 001	3,299
	NSF/IME-CAREER:Frontier Carbon Mtls	n/a	DMR-0447555	29,858
	NSF/IME-GRA-Frontier Carbon Mat'ls	n/a	DMR-0447555	7,030
				433,327
47.050	Geosciences			
	NSF-Laboratory Studies of Clouds	n/a	ATM-9984294-AMD 005	46,196
	NSF/RSI-Correlated Stochastic Proc.	n/a	ATM-0106271-AMD 003	46,964
	NSF-RSI/Volcanic Cloud-Atmosphere	n/a	EAR-0106875-AMD 003	(1,574)
	NSF - Nature & Origin of Calderas	n/a	EAR-0125631-AMD 003	21,596
	NSF-RSI/Volcanic Cloud-Atmosphere	n/a	EAR-0106875-AMD 003	211
	NSF-RSI/Nitrogen Oxides-N. Atlantic	n/a	ATM-0215843-AMD 001	152,966
	NSF - Phase Doppler Interferometer	n/a	ATM-0320953-AMD 001	114,820
	NSF/RSI-Gas Correlation Camera	n/a	EAR-0321869-AMD 001	(10,329)
	NSF/RSI-Hi Temporal Resolution Data	n/a	EAR-0337120	47,938
	NSF/RSI-Hi Temporal Resolution Data	n/a	EAR-0337120	2,401
	NSF-Collab Rsch: Mono Lake Event	n/a	EAR-0439155	15,892
	NSF-RSI/Magnitude Turbidity Plumes	n/a	OCE-9726680-AMD 004	300
	NSF-RSI/Impact of Keweenaw Current	n/a	OCE-9712872-AMD 008	(1,671)
	NSF-RSI/Impact of Keweenaw Current	n/a	OCE-9712872-AMD 008	4,554
	NSF-Impact of the Keweenaw Current	n/a	OCE-9712872-AMD 008	(607)
	NSF-GRA-Lab Studies Clouds	n/a	ATM-9984294-AMD 005	3,389
				443,044

Continued

MICHIGAN TECHNOLOGICAL UNIVERSITY
SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
FOR THE YEAR ENDED JUNE 30, 2005

RESEARCH AND DEVELOPMENT CLUSTER - CFDA NUMBER AVAILABLE - DIRECT AWARDS

Federal Agency/CFDA#	Program title/major subdivision Grant/contract title	Pass thru entity if applicable	Contract #	Expenditures
47.070	Computer and information science and engineering			
	NSF-CAREER: Distributed Computation	n/a	CCR-9984682-AMD 003	19,563
	NSF - CAREER: Memory Controller	n/a	CCF-0133777-AMD 003	64,848
	NSF - Optimization DSP Architecture	n/a	CCR-0209036	62,802
	NSF-(REU)- CAREER:Memory Controller	n/a	CCF-0133777-AMD 003	2,110
	NSF - CAREER:Signal Processing Rsch	n/a	CCR-0238174-AMD 002	62,163
	NSF - US-Russian Collaborative Rsch	n/a	CCF-0310632-AMD 001	39,469
	NSF - US-Russian Collaborative Rsch	n/a	CCF-0310632-AMD 001	14,805
	NSF-ITR: Exposing Compiler to Hdwe.	n/a	CCR-0312892-AMD 001	106,577
	NSF-CAREER:Future Level Parallelisr	n/a	CCF-0347592-AMD 001	50,232
	NSF - NER:Quantum Dot-Based Enzymes	n/a	CCF-0403269	52,169
	NSF-Undergrad Software Eng Curricul	n/a	CCF-0417548-AMD 002	200,273
	NSF- REU -Exposing Compiler to Hdwe	n/a	CCR-0312892-AMD 001	3,342
	NSF - REU - US-Russian Research	n/a	CCF-0310632-AMD 001	1,016
	CAREER: GRA Future Level Parall	n/a	CCF-0347592-AMD 001	14,596
	NSF-CAREER-GRA-Signal Process Rsch	n/a	CCR-0238174-AMD 002	8,011
	NSF -GRA- CAREER:Memory Controller	n/a	CCF-0133777-AMD 003	3,280
	NATIO-ITR: GRA Exp Compiler to Hdwr	n/a	CCR-0312892-AMD 001	176
				705,433
47.074	Biological sciences			
	NSF/ESC-Multi-trophic Level Dynamic	n/a	DEB-9903671-AMD 004	(792)
	NSF/ESC-Major Research Instrument	n/a	DBI-0079566	20,154
	NSF/ESC- Plant-Microbe Interactions	n/a	DEB-0075397-AMD 006	30,508
	NSF-RSI/Aquatic Food Webs	n/a	DEB-0083731-AMD 003	558
	NSF/ESC-Multi-trophic Level Dynamic	n/a	DEB-9903671-AMD 004	4,754
	NSF-Exopolymer Prod-Benthic Diatoms	n/a	IBN-0110875-AMD 005	105,167
	NSF - (REU) Exopolymer Production	n/a	IBN-0110875-AMD 005	(707)
	NSF/ESC-(REU)Plant-Microbe Interact	n/a	DEB-0075397-AMD 006	2,424
	NSF-PBC/CAREER:Cellulose Biosynthes	n/a	IBN-0236492-AMD 002	129,391
	NSF/ESC-Nitrogen Satur/Altered Ecc	n/a	DEB-0315138-AMD 001 & 0002	203,691
	NSF/ESC - REU Site for Ecosystems	n/a	DBI-0353973	14,836
	NSF/ESC - Participant Support (REU)	n/a	DBI-0353973	63,467
	NSF - (REU) Exopolymer Production	n/a	IBN-0110875-AMD 005	6,749
	NSF/ESC-Interactions Wolves/Moose	n/a	DEB-0424562-AMD 001	94,846
	NSF/BRC - Glycoside Metabolisr	n/a	DBI-0421756	204,982
	NSF/BRC - Glycoside Metabolisr	n/a	DBI-0421756	104,908
	NSF/BRC - Glycoside Metabolisr	n/a	DBI-0421756	6,361
	NSF-GRA-Nitrogen Satuation	n/a	DEB-0315138-AMD 001 & 0002	21,956
	NSF-PBC-GRA Cellulose Biosynthesi	n/a	IBN-0236492-AMD 002	9,727
				1,022,977

Continued

MICHIGAN TECHNOLOGICAL UNIVERSITY
SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
FOR THE YEAR ENDED JUNE 30, 2005

RESEARCH AND DEVELOPMENT CLUSTER - CFDA NUMBER AVAILABLE - DIRECT AWARDS

Federal Agency/CFDA#	Program title/major subdivision Grant/contract title	Pass thru entity if applicable	Contract #	Expenditures
47.075	Social, behavioral, and economic sciences			
	NSF-Volcanoes-Guatemala/El Salvador	n/a	INT-0118587-AMD 001	7,109
	NSF-NUE: Undergrad Expl. Nano-Scienc	n/a	SES-0304439-AMD 001	11,338
	NSF - NUE: Undergrad Stipends	n/a	SES-0304439-AMD 001	7,311
	NSF - NUE: Speakers Travel	n/a	SES-0304439-AMD 001	1,382
	NSF - US-Argentina/Chile Research	n/a	OISE-0405634	39,000
	NSF-Industrial Archaeology-Arctic	n/a	SES-0427450	8,371
				<u>74,511</u>
47.076	Education and human resources			
	NSF-Geology Utah's Nat'l Parks	n/a	DUE-9950213-AMD 004	207
	NSF/SFI - Engg in Pre-College Ec	n/a	DUE-9953189 AMD 004	(3)
	NSF-Op Lab/Simulation Ctr-Envir Eng	n/a	DUE-0088282	8,602
	NSF-Integrate Computing w/Geometry	n/a	DUE-0127401	47,547
	NSF-CONCAM Undergraduate Education	n/a	DUE-0231070-AMD 001	2,009
	NSF-IGERT/SFI-Sustainable Future:	n/a	DGE-0333401-AMD 002	198,803
	NSF-IGERT/SFI-Participant Support	n/a	DGE-0333401-AMD 002	261,489
	NSF - GSE/RES Removing Barriers	n/a	HRD-0429020-AMD 001	37,995
	NSF/RSI-Masters Stdnts Geo Hazards	n/a	EAR-0451447	56,161
	NSF - GSE/RES Removing Barriers	n/a	HRD-0429020-AMD 001	17,458
	NSF - GSE/RES Removing Barriers	n/a	HRD-0429020-AMD 001	18,611
	NSF - GSE/RES - Participant Support	n/a	HRD-0429020-AMD 001	17,670
	NSF- RET -GSE/RES Removing Barriers	n/a	HRD-0429020-AMD 001	2,500
				<u>669,048</u>
<u>U.S. Environmental Protection Agency</u>				
66.469	Great lakes program			
	EPA/RSI-Tech PBT Flux Determination	n/a	GL-96520401-0	<u>28,514</u>
66.515	Greater opportunity research program			
	USENE/MuSTI-Biocide Leaching	n/a	GR-832371010-0	<u>3,810</u>
<u>U.S. Department of Energy</u>				
81.035	Research and development in energy conservation			
	USENE/IMP-Improve of Wear Component	n/a	DE-FC26-01NT41055-AMD M003	(3,574)
	USENE-Comminution Circuit Thru-put	n/a	DE-FC2626-01NT41062-AMD M006	100,560
	MTU-Charlotte Nurnberger Assistant	n/a	DE-FC2626-01NT41062-AMD M006	4,233
				<u>101,220</u>
81.036	Inventions and innovations			
	USENE/IMP-Enabling Tool for Glass	n/a	DE-FG36-02G012062-AMD M001	<u>43,764</u>

Continued

MICHIGAN TECHNOLOGICAL UNIVERSITY
SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
FOR THE YEAR ENDED JUNE 30, 2005

RESEARCH AND DEVELOPMENT CLUSTER - CFDA NUMBER AVAILABLE - DIRECT AWARDS

Federal Agency/CFDA#	Program title/major subdivision Grant/contract title	Pass thru entity if applicable	Contract #	Expenditures
81.049	Office of science financial assistance program			
	USENE/ESC-YR 2-Aspen FACE-FACTS II	n/a	DE-FG02-95ER62125-AMD A018	(323)
	DOE-Year 11-Hyperfine Structure	n/a	DE-FG02-92ER14282-AMD A013	(632)
	USENE/ESC-YR3-Aspen FACE-FACTS II	n/a	DE-FG02-95ER62125-AMD A018	(2,135)
	DOE - Year 12 - Hyperfine Structure	n/a	DE-FG02-92ER14282-AMD A013	21,274
	USENE/ESC-YR4-Aspen FACE-FACTS II	n/a	DE-FG02-95ER62125-AMD A018	791,968
	USENE/ESC-YR1-Carbon Sequestrian	n/a	DE-FG02-04ER63792 AMEND A002	148,746
	USENE-Mi Tech Center-Nanostructure	n/a	DE-FG02-04ER63821	153,522
	USENE-Mi Tech Center-Nanostructure	n/a	DE-FG02-04ER63821	240,764
	USENE-Mi Tech Center-Nanostructure	n/a	DE-FG02-04ER63821	131,921
	USENE-Mi Tech Center-Nanostructure	n/a	DE-FG02-04ER63821	77,395
	USENE-Mi Tech Center-Nanostructure	n/a	DE-FG02-04ER63821	125,770
	USENE-Mi Tech Center-Nanostructure	n/a	DE-FG02-04ER63821	7,480
	USENE-Mi Tech Center-Nanostructure	n/a	DE-FG02-04ER63821	9,267
	DOE - Year 13 - Hyperfine Structure	n/a	DE-FG02-92ER14282-AMD A013	22,205
	USENE/ESC-YR2-Carbon Sequestration	n/a	DE-FG02-04ER63792 AMEND A002	25,261
	USENE/ESC-YR2-Carbon Sequestration	n/a	DE-FG02-04ER63792 AMEND A002	7,082
	USENE/ESC-YR 5-Aspen FACE-FACTS II	n/a	DE-FG02-95ER62125-AMD A018	314,408
	USENE/RSI-Seismic Amplitude-Data	n/a	DE-FG02-05ER15674-AMD A000	13,581
	DOE-YR13 - GRA-Hyperfine Structure	n/a	DE-FG02-92ER14282-AMD A013	15,555
				2,103,108
81.086	Conservation research and development			
	USENE-Grad Auto Tech Ed (GATE) Prgm	n/a	DE-FC26-98CH10951-AMD A008	5,762
	USENE- GATE Program Fellowships	n/a	DE-FC26-98CH10951-AMD A008	82,622
	USENE/IMP-Tubes-Produced of Ethylene	n/a	DE-FC36-01ID14255-AMD M005	142,532
	USENE/IMP-Novel Direct Steel Making	n/a	DE-FC36-01ID14209-AMD A007	69,066
	USENE-Ignition Improvement-Lean Gas	n/a	DE-FC26-02NT41443-AMD A004	(7,854)
	USENE/IMP-Microwave ElectrolyteCel	n/a	DE-FC36-02ID14402-AMD A004	60,792
	USENE/IMP-Microwave ElectrolyteCel	n/a	DE-FC36-02ID14402-AMD A004	(946)
	USENE/IMP-Steel Slag Iron Content	n/a	DE-FC36-01ID14046-AMD M005	20,411
	USENE-PBC-Genetic Manipulation	n/a	DE-FC36-03ID14440-AMD A004	445,174
	USENE-ATDC/Ignition Improve LeanGas	n/a	DE-FC26-02NT41443-AMD A004	33,016
	USENE/IMP-Microwave ElectrolyteCel	n/a	DE-FC36-02ID14402-AMD A004	32,284
	USENE- GRA -Microwave Assisted Cell	n/a	DE-FC36-02ID14402-AMD A004	4,183
				887,043

Continued

MICHIGAN TECHNOLOGICAL UNIVERSITY
SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
FOR THE YEAR ENDED JUNE 30, 2005

RESEARCH AND DEVELOPMENT CLUSTER - CFDA NUMBER AVAILABLE - DIRECT AWARDS

Federal Agency/CFDA#	Program title/major subdivision Grant/contract title	Pass thru entity if applicable	Contract #	Expenditures
81.087	Renewable energy research and development			
	USENE/SFI-Bgt #1-AgglomerationOre	n/a	DE-FC26-03NT41924-AMD A004	226,495
	USENE - Extraction of Iron from Ore	n/a	DE-FG26-03NT41938-AMD A000	18,092
	USENE/SFI-Single-Step Ironmaking	n/a	DE-FG26-03NT41930-AMD M001	29,538
	USENE/SFI-Bgt #2-Agglomeration Ore	n/a	DE-FC26-03NT41924-AMD A004	55,984
	USENE-Perhydride-Hydrogen Storage	n/a	DE-FG36-05GO15003	39,847
				369,956
81.089	Fossil energy research and development			
	USENE-Calibration/Test Sonic Stimul	n/a	DE-FC26-01BC15165	254,055
	USENE-Crosswell Seismic Amplitude	n/a	DE-FC26-04NT15508-AMD A001	164,599
				418,655
81.107	Oil recovery demonstration			
	USENE-YR1/YR2-Shallow Carbon Rsvr.	n/a	DE-FC26-00BC15122-AMD M004	39
	USENE-YR3/YR4-Shallow Carbon Rsvr.	n/a	DE-FC26-00BC15122-AMD M004	27,099
	USENE-Implementing Cyclic CO2 Flood	n/a	DE-FC26-02NT15441-AMD M005	555,446
	USENE-YR5-Shallow Carbon Reservoir	n/a	DE-FC26-00BC15122-AMD M004	38,902
				621,486
<u>U.S. Department of Education</u>				
84.116	Fund for the improvement of postsecondary education			
	USEDU-YEAR1-ExCit: Expanding Cities	n/a	P116N030005-04-ACTION NO. 02	12,086
	USEDU-YEAR2-ExCit:Expanding Cities	n/a	P116N030005-04-ACTION NO. 02	8,849
				20,935
84.200	Graduate assistance in areas of national need			
	USEDU/SFI-YR2 GAANN:Env Engg Fellow	n/a	P200A000425-02 ACTION NO. 06	1,259
	USEDU/SFI-YR3 GAANN:Env Engg Fellow	n/a	P200A000425-02 ACTION NO. 06	2,564
	USEDU-YEAR 3 GAANN:Geology Fellow	n/a	P200A000420-02 ACTION NO. 05	8
	USEDU-Year3 GAANN:Engine Fellowship	n/a	P200A010413-03-ACTION NO. 09	74,972
				78,803
<u>U.S. Department of Health and Human Services</u>				
93.821	Cell biology and biophysics research			
	NIH/IME-YEAR1-Structural Transition	n/a	1 R01 GM062838-01A2	36,798
	NIH/IME-YEAR2-Structural Transition	n/a	1 R01 GM062838-01A2	137,187
	NIH/IME-YEAR3-Structural Transition	n/a	1 R01 GM062838-01A2	1,668
				175,653

Continued

MICHIGAN TECHNOLOGICAL UNIVERSITY
SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
FOR THE YEAR ENDED JUNE 30, 2005

RESEARCH AND DEVELOPMENT CLUSTER - CFDA NUMBER AVAILABLE - DIRECT AWARDS

Federal Agency/CFDA#	Program title/major subdivision Grant/contract title	Pass thru entity if applicable	Contract #	Expenditures
93.846	Arthritis, musculoskeletal and skin diseases research			
	NIH/IME Blk Bear Bone Mechanics-YR1	n/a	1 R15 AR050420-01	25,095
	NIH/BRC-Blk Bear Bone Mechanics-YR2	n/a	1 R15 AR050420-01	28,680
	NIH/BRC - Meniscal Horn Attachment	n/a	1 R15 AR051906-01	1,614
	NIH/BRC-GRA-Meniscal Horn Attachmnt	n/a	1 R15 AR051906-01	3,607
				<u>58,995</u>
93.866	Aging research			
	NIH/BRC - Map Complex Disease Genes	n/a	1 R03 AG024491-01	57,368
	NIH - Synthesis of Novel inhibitors	n/a	1 R15 AG025777-01	13,464
				<u>70,832</u>
TOTAL RESEARCH AND DEVELOPMENT CLUSTER - CFDA NUMBER AVAILABLE - DIRECT AWARDS				<u>11,110,818</u>

Concluded

MICHIGAN TECHNOLOGICAL UNIVERSITY
SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
FOR THE YEAR ENDED JUNE 30, 2005

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

Program title/major subdivision Grant/contract title	Pass thru entity if applicable	Contract #	Expenditures
<u>U.S. Department of Agriculture</u>			
U.S. Forest Service			
USAGR-Archaeol Collect-Ottawa Nat'l	n/a	01-CS-11090700-005-MOD NO. 5	\$ 787
USAGR-Archaeol Coll-Hiawatha Nat'l	n/a	03-CS-110910-00-17	89
USAGR - NDE Methods	n/a	PNW03-DG-11261975-137-MOD NO.3	5,591
USAGR-Woody Debris in Streams	n/a	03-JV-11231300-074-MOD NO. 1	2,445
USAGR-Carbon Storage in Forests	n/a	00-JV-11231300-086	51
USAGR-Carbon Allocation-Red Pine	n/a	01-JV-11231300-071	4,672
USAGR-Above-Ground Crbn Allocation	n/a	01-JV-11231300-074	556
USAGR/ESC - Manage FACE Experiment	n/a	01-JV-11231300-085-MOD NO. 7	53,196
USAGR-Carbon & Nitrogen Dynamics	n/a	01-JV-11231300-072-MOD NO. 2	195
USAGR-Wood Decomposition by Environ	n/a	01-JV-11222062-242-MOD NO. 4	34,163
USAGR/ESC-CO2 Flux-Aspen FACE Exper	n/a	02-JV-11231300-052-MOD NO. 2	20,954
USAGR-Mapping Fire Location/Extent	n/a	01-JV-11231300-098-MOD NO. 4	23,339
USAGR-Influence Climate-Wood Decomp	n/a	03-JV-11231300-041-MOD NO. 1	2,020
USAGR-Mgmt Local Scour-Stream Rehab	n/a	AGRMT NO. 58-6408-3-0002	6,558
USAGR-Ecologist Lecture Series	n/a	03-CS-11231300-040	1,241
USAGR-Woody Debris in Streams	n/a	03-JV-11231300-074-MOD NO. 1	33,030
USAGR/ESC-Plants, Carbon Allocat.	n/a	03-JV-11231300-073-MOD NO.1	23,198
USAGR/ESC-Decay Rts of Crbn in Leaf	n/a	03-JV-11231300-076-MOD NO. 1	22
USAGR-Construct Six Timber bridges	n/a	03-DG-11244225-114-MOD NO. A2	34,207
USAGR-Grading/Scaling Log Database	n/a	03-CA-11242343-127	(165)
USAGR-Quality Tongue/Groove Panels	n/a	03-DG-11244225-115-MOD A1	6,127
USAGR/ESC-Measure Belowgrd Process	n/a	03-CS-11231300-098	10,026
USAGR-Fiber Production/Soil Prod.	n/a	03-JV-11231300-067-MOD NO. 2	26,720
USAGR - Modelling Tree Mortality	n/a	04-JV-11222063-168	7,960
USAGR/ESC-Plants, Carbon Allocat.	n/a	03-JV-11231300-073-MOD NO.1	2,363
USAGR-Carbon/Nitrogen Cycle Rsch.	n/a	04-CR-11231300-027-MOD NO. 1	16,027
USAGR-National Register Nominations	n/a	04-CS-11090700-010	19,189
USAGR-Fire Risk-Mark Twain Forest	n/a	04-JV-11231300-038-MOD NO. 1	44,548
USAGR-Historical/Modern Vegetation	n/a	04-PA-11090100-020	130,309
USAGR-Communities Risk to Wildfire	n/a	SRS 04-JV-11330136-161	22,202
USAGR-Wood Decomposition by Environ	n/a	01-JV-11222062-242-MOD NO. 4	1,527
USAGR-Archaeol Coll.-Hiawatha Nat'l	n/a	05-CS-11091000-021	196
USAGR-GRA-Carbon/Nitrogen Cycle Rsc	n/a	04-CR-11231300-027-MOD NO. 1	32,544
			565,888

Continued

MICHIGAN TECHNOLOGICAL UNIVERSITY
 SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
 FOR THE YEAR ENDED JUNE 30, 2005

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

Program title/major subdivision Grant/contract title	Pass thru entity if applicable	Contract #	Expenditures
U.S. Department of Defense			
National Security Agency			
USDEF-CSERI/NSR Unified Parallel C	n/a	MDA904-03-C-0483-MOD NO. P0002	86,054
USDEF-CSERI/NSR Unified Parallel C	n/a	MDA904-03-C-0483-MOD NO. P0002	3,407
USDEF-CSERI/NSR-YEAR 2-Parallel C	n/a	MDA904-03-C-0483-MOD NO. P0002	354,778
			444,238
U.S. Army			
TACOM - Alternative Fuels Group	n/a	DAAE07-03-P-L751-MOD P00001	13,128
TACOM - Alternative Fuels Group	n/a	DAAE07-03-P-L751-MOD P00001	3,241
TACOM - Surge - Work Directive 014	n/a	DAAE07-00-C-L052-MOD P00011	32,187
TACOM - SURGE - Work Directive 015	n/a	DAAE07-00-C-L052-MOD P00012	58,009
TACOM - SURGE - Work Directive 016	n/a	DAAE07-00-C-L052-MOD P00014	20,438
TACOM - SURGE - Work Directive 017	n/a	DAAE07-00-C-L052-MOD P00013	31,500
TACOM - SURGE - Work Directive 018	n/a	DAAE07-00-C-L052-MOD P00013	24,370
TACOM - Countermeasure STO-SURGE,WD01	n/a	W56HZV-04-C-0643	383,641
TACOM - Dolly Kit Modification	n/a	W56HZV-05-P-0253-MOD # P0001	73,712
TACOM - Assured Mobility - WD002	n/a	W56HZV-04-C-0643-MOD P00001	38,671
TACOM - Assured Mobility - WD003	n/a	W56HZV-04-C-0643-MOD P0001	16,176
TACOM - Assured Mobility #STO -WD004	n/a	W56HZV-04-C-0643-MOD P00002	79,398
TACOM - Quick Release Mech.-WD019	n/a	DAAE07-00-C-L052-MOD P00016	16,805
TACOM - Bradley Track System - WD020	n/a	DAAE07-00-C-L052-MOD P00016	16,292
USARM - Testing of Amorphous Metals	n/a	DAAD19-01-1-0492-MOD P0004	48,931
USARM - Nano Center-DARPA	n/a	DAAD17-03-C-0115-MOD P00001	100,038
USARM - Nano Center-DARPA	n/a	DAAD17-03-C-0115-MOD P00001	124,239
USARM - Nano Center-DARPA	n/a	DAAD17-03-C-0115-MOD P00001	91,029
USARM - RSI/Overlake Rainfall Estimat	n/a	W911XK-04-P-0040-MOD P00001	25,989
USARM/IME/NSR-Nano Center-DARPA	n/a	DAAD17-03-C-0115-MOD P00001	196,295
USARM/IME/NSR-Nano Center-DARPA	n/a	DAAD17-03-C-0115-MOD P00001	33,234
			1,427,324

Continued

MICHIGAN TECHNOLOGICAL UNIVERSITY
SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
FOR THE YEAR ENDED JUNE 30, 2005

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

Program title/major subdivision Grant/contract title	Pass thru entity if applicable	Contract #	Expenditures
U.S. Army Tank Automotive Command			
USARM-04 Clean Snowmobile Challenge	n/a	W56HZV-04-P-L684	2,373
USARM-Research Truck Engine Mounts	n/a	W56HZV-04-C-L522-MOD P00001	63,225
			65,598
U.S. Army - Cold Regions Research Engineering Lab			
USARM/CRREL(NSR)-Antarctic Crevasse	n/a	W913E5-04-P-0026-MOD P00001	33
USARM/CRREL(NSR)-Antarctic Crevasse	n/a	W913E5-04-P-0026-MOD P00001	66
USARM/CRREL-So Pole Traverse Proj.	n/a	W913E5-05-P-0007	42,229
USARM/CRREL - Winter Test at KRC	n/a	W913E5-05-P-0031	29,731
			72,059
U.S. Navy			
NAVAL-Fungal Decay Resistance	n/a	N47408-98-M-3017-MOD P00001	954
USNAV-Hydraulic Pump Measurement	n/a	N00167-03-M-0618-MOD P00003	1,853
			2,807
<u>U.S. Department of the Interior</u>			
National Park Service			
USPAR-Great Lakes Inventory Netwrk	n/a	H6310010001-AGRMT 005-MOD 001	4,436
USPAR/ESC-Yr 2- Bio Diversity SLBE	n/a	H6310010001-TASK 002-MOD 004	599
USPAR/ESC-Loon Monitor-Isle Royale	n/a	H6310010001-TASK 011-MOD 003	678
USPAR/ESC-Bats in Great Lks Netwrk	n/a	2105-2000-NII-TASK AGRMT NO.12	(574)
USPAR/MTTI-Transport Syst-Kew Nat'l	n/a	H6310010001-J641003K669/017-01	24,494
USPAR/ESC- Genetic Wolf Mat'l.	n/a	H6310010001 - J631003N007/016	5,028
USPAR - GIS for ISRO & KEWE Nat'l.	n/a	H6000C02000-J631003N012-MOD 1	9,534
USPAR/ESC-Wolf-Moose IR Nat Pk	n/a	J631004N004	10,005
USPAR- Isle Royale Institute	n/a	H6000C02000-J631004A021-MOD 3	82
USPAR - Mapping Coal Creek District	n/a	TASK AGRMT NO. J9840-04-0029	25,745
USPAR/ESC - Wolf-Moose Monitoring	n/a	HC6000C02000 -J631004N002/0001	9,644
USPAR-Renew Potential Pitcher Plant	n/a	HC6000C02000 - J630004GL01	4,873
USPAR-Exotic Plant Species Gr Lakes	n/a	HC6000C02000 - J2105040050	4,597
USPAR-Old/New Dormitory-Mission 66	n/a	HC6000C02000 - J6068040115	3,853
USPAR-Long-Range Plan Keweenaw NHP	n/a	HC6000C02000 - J641004K625	3,000
USPAR/ESC - Wolf-Moose Monitoring	n/a	H6000C02000-J631005N004	24,011
			130,004

Continued

MICHIGAN TECHNOLOGICAL UNIVERSITY
SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
FOR THE YEAR ENDED JUNE 30, 2005

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

Program title/major subdivision Grant/contract title	Pass thru entity if applicable	Contract #	Expenditures
U.S. Fish & Wildlife Service			
USFIS - Canada Yew Restoration	n/a	314104M208	700
USFIS-Assessment of Lake Sturgeon	n/a	AGRMNT NO. 301811J205-MOD 2	41,137
USFIS - Assessment of Lake Sturgeon	n/a	30181-5-J053	12,000
			<u>53,837</u>
U.S. Department of Transportation			
Federal Aviation Administration			
FAA-Elastomeric Anti-Icing Overlays	n/a	DTFACT03P10501	(55)
Federal Highway Administration			
USTR/MTTI-Aggregate Rsch-Pavements	n/a	DTFH61-02-C-00074-TSK ORDER #1	20,285
USTR/MTTI-Resilient Modulus-Task#2	n/a	DTFH61-02-C-00074-TSK ORDER #2	148,835
USTR/MTTI-Tribal Tech Asst Center	n/a	DTFH61-04-H-00005-AMD 5	324,903
USTR/MTTI-Aggregate Character-Tsk3	n/a	DTFH61-02-C00074-TSK ORDER #3	155,873
			<u>649,896</u>
National Aeronautics and Space Administration			
N/A no subdivisions			
NASA-RSI/Lab Studies Ice Nucleation	n/a	NAG5-10568-SUPPLEMENT 0003	19,816
NASA-RSI - Validation of TOMS	n/a	NAG5-11062-SUPPL 0004	33,516
NASA/IME-YR1-Next-Gener Ion Engine	n/a	NCC3-1030-SUPPL NO. 1	126
NASA-CSERI/Evaluate ESTO CT Project	n/a	NAG5-13385-SUPPLEMENT 1	18,906
NASA-YEAR 2-Gas-Turbine Combustor	n/a	NAG3-2759-SUPPL NO. 3	(438)
NASA/RSI-Volcano SO2-Satellite Data	n/a	NAG5-13783	67,058
NASA/IME-YR2-Next-Genar Ion Engine	n/a	NCC3-1030-SUPPL NO. 1	32,860
NASA - Carbon Nanotubes	n/a	NNJ04HC96G	3,691
USNAS/RSI/NSR-Picture of Day 2003	n/a	NNG04GG99G	49,768
USNAS/RSI-Quantify Volcano Emission	n/a	NNG04GJ67G	56,787
NASA-RSI-Validation of TOMS	n/a	NAG5-11062-SUPPL 0004	31,960
NASA-/NSR-YR3-GAS-Turbine Combustor	n/a	NAG3-2759-SUPPLEMENT NO. 3	33,474
USNAS-Equivalent-Continuum Modeling	n/a	NNL04AA85G	23,552
USNAS-NSR-Micro Grav/Terrest Enviro	n/a	NNC04GB52G-SUPPL NO. 1	100,915
NASA/RSI-Ice Nucleation	n/a	NNG04GR41G	31,190
USNAS-ADV ACCT-Dynamics Heat Trsf	n/a	NNC05GA09G	17,291
NASA-GRA-Equiv-Continuum Modeling	n/a	NNL04AA85G	24,585
NASA-GRA-Ice Nucleation of Org Cmp	n/a	NNG04GR41G	9,624
USNAS/NSR - GRA - Micro Gravity	n/a	NNC04GB52G-SUPPL NO. 1	22,579
			<u>577,260</u>

Continued

MICHIGAN TECHNOLOGICAL UNIVERSITY
 SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
 FOR THE YEAR ENDED JUNE 30, 2005

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

Program title/major subdivision Grant/contract title	Pass thru entity if applicable	Contract #	Expenditures
<u>National Science Foundation</u>			
N/A no subdivisions			
NSF-YEAR1-IPA-Jackie Huntoon	n/a	GEO-0353279-001, 002	31,558
NSF-YEAR2-IPA-Jackie Huntoon	n/a	GEO-0353279-001, 002	109,031
NSF-Post Doc Research Fellowship	n/a	DGE-0411426	34,926
			<u>175,514</u>
<u>U.S. Department of Energy</u>			
N/A no subdivisions			
USENE - RSI / YEAR 5 - High Energy	n/a	DE-FG02-99ER41107-AMD A006	(71)
USENE/RSI - YEAR 6 - High Energy	n/a	DE-FG02-99ER41107-AMD A006	146,489
USENE/RSI - YEAR 7 - High Energy	n/a	DE-FG02-99ER41107-AMD A006	57,674
USENE/RSI - GRA - YR7-High Energy	n/a	DE-FG02-99ER41107-AMD A006	2,924
			<u>207,017</u>
<u>U.S. Environmental Protection Agency</u>			
N/A no subdivisions			
EPA/SFI-P3 Design Project	n/a	SU-83181801-0	<u>4,251</u>
TOTAL RESEARCH AND DEVELOPMENT CLUSTER - CFDA NUMBER NOT AVAILABLE - DIRECT AWARDS			<u>4,375,638</u>

Concluded

MICHIGAN TECHNOLOGICAL UNIVERSITY
SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
FOR THE YEAR ENDED JUNE 30, 2005

RESEARCH AND DEVELOPMENT CLUSTER - CFDA NUMBER AVAILABLE - PASSTHROUGH

Federal Agency/CFDA#	Program title/major subdivision Grant/contract title	Pass thru entity if applicable	Contract #	Expenditures
U.S. Department of Agriculture				
10.219	Biotechnology risk assessment research ORGEO-BRC-Fld Evl Semi-Dwarf	Oregon State University	SUBGRANT #C0306A-A	\$ 25,126
10.652	Forestry research REGEN-Transverse Vibra Technique	Regents of the University of Minnesota	D1876500014(1637-187-6500)	1,582
Department of Commerce				
11.417	Sea Grant Support UNIVE-RIS-Ecosystem Mosaic	Michigan State University	GRANT DATED 6/23/05	1,419
U.S. Department of Defense				
12.300	Basic and applied scientific research WASHI-IME/Fundmntl Propty Energetic WASHI-IMEFnd Prp Enr Mtls	Washington State University Washington State University	G001118 AMENDMENT # 1-7 G001118 AMENDMENT # 1-7	(1,220) 174,664 173,444
12.630	Basic, applied and advanced research in science and engineering UNIVE-IME-Year 4 Theo Stdy Dfct/Dop STANF-IME-NSR-Yr 4,5,6 Th Stdy	Stanford University Stanford University	PY-1372 AMEND 1,2,3,4,5,6 PY-1372 AMEND 1,2,3,4,5,6	2,849 80,402 83,251
12.800	Air force defense research sciences program UNIVE-Sci/Eng Carbon Foams	Ohio University	UT12219/OU3191	294
U.S. Department of Interior				
15.611	Wildlife restoration MINAT-Constr/Evl Sight MI Moose Sur MINAT-White Tld Deer Hemlock Stands MINAT-Dvl Sharp Tailed Grouse	Michigan Department of Natural Resources Michigan Department of Natural Resources Michigan Department of Natural Resources	PO # 751P5200789 PO #751P5201288 PO # 751P5201287	16,262 12,549 16,346 45,157

Continued

MICHIGAN TECHNOLOGICAL UNIVERSITY
SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
FOR THE YEAR ENDED JUNE 30, 2005

RESEARCH AND DEVELOPMENT CLUSTER - CFDA NUMBER AVAILABLE - PASSTHROUGH

Federal Agency/CFDA#	Program title/major subdivision Grant/contract title	Pass thru entity if applicable	Contract #	Expenditures
<u>U.S. Department of Transportation</u>				
20.109	Air transportation centers of excellence			
	UNIVE-Anit-icing Chicago O'Hare	University of Illinois	SUB 2003-00724-2/A9469	<u>3,713</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>
<u>National Endowment for the Humanities</u>				
45.302	Museum Assessment Program			
	HOUGH-GRA-Cal & Hecla Stamp Mill	Houghton County Historical Society	AGREE 040703	12,756
	HOUGH-Calumet & Hecla Stamp Mill	Houghton County Historical Society	AGREE 040703	3,395
				<u>16,151</u>
<u>National Science Foundation</u>				
47.041	Engineering grants			
	UNIVE-Spr Ent En Rsrch Ctr	University of Michigan	SUBCONTRACT # F004025	9,936
	UNIVE-WIMS Edu Tsk Prt Cst	University of Michigan	SUBCONTRACT # F004025	119
	UNIVE-WIMS Educ Tsk Sps	University of Michigan	SUBCONTRACT # F004025	31,959
	UNIVE-WIMS Mcr Tk Sprr Acc	University of Michigan	SUBCONTRACT # F004025	120,204
	UNIVE-Sensors Tsk Spnsr	University of Michigan	SUBCONTRACT # F004025	344,177
	UNIVE-WIMS Sponsor Adminis	University of Michigan	SUBCONTRACT # F004025	76,589
	MTU-Jianlin Liang Assistnt	University of Michigan	SUBCONTRACT # F004025	8,010
				<u>590,993</u>
47.049	Mathematical and physical sciences			
	UNIVE-SPNSR-ClS ExAo/MCAO	University of California Santa Cruz	S0161634	19,596
	UNIVE-Perform/Stbly Kalman Filter	University of California Santa Cruz	SUB AWARD # S0176848	12,175
				<u>31,771</u>
47.076	Education and human resources			
	UNIVE-Great Lks Wood Manuf Partners	University of Minnesota - Duluth	1638-187-6487-7901	<u>7,742</u>

Continued

MICHIGAN TECHNOLOGICAL UNIVERSITY
SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
FOR THE YEAR ENDED JUNE 30, 2005

RESEARCH AND DEVELOPMENT CLUSTER - CFDA NUMBER AVAILABLE - PASSTHROUGH

Federal Agency/CFDA#	Program title/major subdivision Grant/contract title	Pass thru entity if applicable	Contract #	Expenditures
<u>U.S. Environmental Protection Agency</u>				
66.500	Environmental protection consolidation research CONSO-PBC/Sponsor Design Promoturs	Consortium Plant Biotechnology Research Inc	EPA82947901-129	<u>21,181</u>
 <u>U.S. Department of Energy</u>				
81.049	Office of science financial assistance program MICH/ESC- Below Grnd Plants/Soil	University of Michigan	V51573/F000354 AMEND 9	<u>164,551</u>
81.087	Renewable engery research and development UNIVE-Total Ore Prcs Integr/Management	University of Missouri - Rolla	SUB CONTRACT # 000793-03	<u>12,431</u>
 <u>U.S. Department of Health and Human Services</u>				
93.172	Human genome research UNIVE-LD Mapping Using Haplotype Bl	Unversity of Chicago - Loyola	SUBCONTRACT DATED 4/22/05	<u>13,028</u>
 <u>U.S. Agency for International Development</u>				
98.012	USAID Development Partnerships for University Cooperation and Development AMERI-TrainCore Wat Rs Exp	American Council on Education	AGREEMENT DATED 2/20/03	<u>132,979</u>
 TOTAL RESEARCH AND DEVELOPMENT CLUSTER - CFDA NUMBER AVAILABLE - PASSTHROUGH				 <u>\$ 1,324,686</u>

Concluded

MICHIGAN TECHNOLOGICAL UNIVERSITY
SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
FOR THE YEAR ENDED JUNE 30, 2005

RESEARCH AND DEVELOPMENT CLUSTER - CFDA NUMBER NOT AVAILABLE - PASSTHROUGH

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	\$ 10,251
	UNIVE-Entomogy & Pathology Collect	University of California	SA3630 AMENDMENT 1	3,651
	NORTH/BRC-eng of Cellulose Biosynt	Northern Caroline State University	SUBAWAR #03-1893-01	3,198
				<u>17,099</u>
<u>U.S Department of Defense</u>				
	U.S. Tank Automotive Command			
	GSENG-LV 100 Eng/MIA@ Integration S	GS Engineering	P0# 1013/GSE AGREEMETN #30520	(11,033)
	GSENG-Centergruide Wear Testing	GS Engineering	CO #040340	698
	GSENG-Centergruide Wear Testing	GS Engineering	CO #040340	1,697
	Confidential Agreement	James Hardie Building Products	PO # 2796789	8,694
	SURME-Alum Metal Matrix Trck Dev	Surmet Ceramics Corp.	PO # 522641	20,800
	SURME-Aluminum Metal Mtrx Trk Devel	Surmet Ceramics Corp.	PO # 522641	49,710
	THERM-STOP WORK ORDER IN EFFECT	Thermoanalytics Inc.	THERMOANALYTICS PROJ.# E10441	21,702
	THERM-Human Contact Model Thermo En	Thermoanalytics Inc.	AGREE # TAI-04-0121	45,024
				<u>137,292</u>
	U.S. Army			
	RESEA/IME-Spnsr-Nanomat'ls	Research and Development Labs	SUB CONTRACT 47105-00-01 AMD 2	<u>49,055</u>
	U.S. Army Research Office			
	ACADE-Rsch/Engineer Apprenticeship	Academy of Applied Science	LETTER 5-10-05 CHECK 4397	<u>780</u>
	U.S. Navy			
	TELLU/IMP-Thermoelectric Alloys	Tellurex Corporation	N00014-05-M-0045	10,560
	BMTDE-Crane Test Bed Development	BMT Designers and Planners Inc.	PO # 04-0027	76,149
	BMTDE-Syst Idnt Hydrst Trs	BMT Designers and Planners Inc.	PO #04-0015	73,506
	ROLLS-Spnr-High Sea Transfer	Rolls Royce Naval Marine	PO # 945067	113,802
	BMTDE-GRA	BMT Desingers and Planners Inc.	PO #04-0015	15,152
				<u>289,169</u>

Continued

MICHIGAN TECHNOLOGICAL UNIVERSITY
SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
FOR THE YEAR ENDED JUNE 30, 2005

RESEARCH AND DEVELOPMENT CLUSTER - CFDA NUMBER NOT AVAILABLE - PASSTHROUGH

Federal Agency/CFDA#	Program title/major subdivision Grant/contract title	Pass thru entity if applicable	Contract #	Expenditures
U.S. Air Force				
	QORTE-Millimeter Wave Dosimetry	Qortek, Inc.	FA8650-05-M-6506	13,187
	UNIVE-Atm Prp Hgh Engy Lsr	UCLA	0205-G-DB131	228,584
	UNIVE-GRA-Atms Hgh Engy Lsr	University of California at Los Angeles	0205-G-DB131	677
				<u>242,448</u>
Department of Defense				
	BATTE-Lab Test of Deicing Chemicals	Battelle Memorial Institute	PO #187207	5,810
	PHYSI-PSI Phs II STTR Hypspt Tsk	Physical Sciences, Inc.	PSI CONT W911SR-040C PO#34947	36,001
	THERM-RadTherm/iSight Integration	Thermoanalytics Inc.	E10521 MOD 1 LINE ITEM 002	8,062
	THERM-Rad/Therm/iSight Intergration	Thermoanalytics Inc.	E10521/TAI-04-0903	13,718
	THEM-3 D Voxel-Base Bio-Ht Tnsfr Cd	Thermoanalytics Inc.	TAI-02-0325	10,618
	THERM-3-D Voxel - Bsd Mdl Human The	Thermoanalytics Inc.	TAI 02-0325 MOD 3	12,184
	UNITE-United Defense LP	United Defense LP	PO #PT18090-00	560
	UNITE-Turning Testing	United Technologies Research Center	CO #041216	1,500
	ZYVEX-Multifunct Nxt-Gener Crg Nano	Zyvox Corporation	AGREEMENT # 041180	16,872
	UNITE-IME-Constit Mdl Propul Sys Pr	United Technologies Corp	CONTRACT # 24100	95,985
				<u>201,309</u>
<u>U.S. Department of Interior</u>				
Department of Fish & Wildlife				
	MINAT-Gry Wof Pop Mod/Est	Michigan DNR		<u>122,302</u>
<u>U.S. Department of Transportation</u>				
Federal Highway Administration				
	NATIO-TC-Durability of Early-Openin	Transportation Research Board	HR 18-04B MOD 1-5	397
	MIPOL-MTTI-Schl Prgm Safe Non-Eng	Michigan State Police	PROJECT # RS-04-03	3,628
	MIPOL-MTTI-Schl Prg Intersec Safety	Michigan State Police	PROJECT # RS-04-03 FY05	1,612
	MIPOL-MTTI-Partic-Schl-Instrect Sfty	Michigan State Police	PROJECT # RS-04-03 FY05	13,200
	MITRA-TC-MERL-2002/2003	MDOT	JOB # 72377	10,237
	MITRA-MTTI-04 Video Prod Completion	MDOT	# 2004-0086 JOB # 772150	40,242
	MITRA-Log Truck Study II	MDOT	JOB # 76930, 2003-0063 AUTH 10	52,095
	MITRA-MTTI-Log Truck Study II	MDOT	JOB # 76930, 2003-0063 AUTH 10	1,192
	MITRA-TC Phase II Spec for Hot Mix	MDOT	JOB # 568080/549570/00MTU5-1-6	40,167
	MITRA-MTTI-Research Record 2005	MDOT	CONTRACT2003-0063/JOB # 76915	7,456
	MITRA-MTTI-TDG-LTAP 2004	MDOT	31126	18,616
	MITRA/TDG-MTTI-LTAP 2003	MDOT	JOB # 73523/73524/73525	(6,295)

Continued

MICHIGAN TECHNOLOGICAL UNIVERSITY
SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
FOR THE YEAR ENDED JUNE 30, 2005

RESEARCH AND DEVELOPMENT CLUSTER - CFDA NUMBER NOT AVAILABLE - PASSTHROUGH

Federal Agency/CFDA#	Program title/major subdivision Grant/contract title	Pass thru entity if applicable	Contract #	Expenditures
	MITRA/MTTI/TDG-2004 Roadsoft	MDOT	2004-0053 JOB # 78248	261,338
	MITRA-MTTI/LRFD Load Cllibration	MDOT	MASTER 2003-0063/JOB # 56815	24,158
	MITRA-MTTI-04 Video Prod Completion	MDOT	PO # 591N5200823	11,098
	MITRA-Lab Model Perf PreWetted Soli	MDOT	2003-0063, JOB #81023, AUTH#11	31,790
	MITRA-MTTI-Rpd Cnst Sol Prstres Sys	MDOT	2003-6003 AUTH 13/JOB# 76984	8,875
	MITRA-MTTI-MCLS 2004	MDOT	CONTRACT 2003-0709 JOB #40617C	15,148
	MITRA-MTTI-Resil Mod Lim Grad/Var	MDOT	JOB # 80324	53,495
	MITRA/MTTI-Compacted Hot Mix Aspha	MDOT	MDOT #2003-0063 JOB 79121	67,058
	MITRA/MTTI-Moisture Dmg on Asphalt	MDOT	MDOT 2003-0063 JOB #76941	55,251
	NATIO-Counter Meas Protect Bridge	National Academy of Sciences	CONTRACT # HR24-18A	196,521
	SOUTH-MTTI-Lng Effcts Mag Magnes	South Dakota DOT	CONTRAT # 310802	116,267
	UNIVE-MTTI-Dev Modules Temp HMA	MDOT	PRIME CONTRACT 0092-03-14	10,000
	WITRA-MTTI-Sps-Tst WI Asphalt Mix	Wisconsin DOT	PROJECT ID 009-04-07	52,474
	WITRA/MTTI-Eval Meth Air Void Sys	Wisconsin DOT	PROJECT ID 0092-03-16	90,734
	MITRA-MTTI-GRA-Moisture Dmg Asphalt	MDOT	MDOT 2003-0063 JOB #76941	54,485
	WITRA-MTTI-GRA-Tst Wisc Asphalt	Wisconsin DOT	PROJECT ID 009-04-07	7,766
				1,239,003
Federal Aviation Administration				
	INNOV/MTTI-Conc Mix & Pavement Cons	Innovative Pavement Research Foundation	IPRF-FAA-01-G-002-03-3	75,964
<u>National Aeronautics and Space Administration</u>				
N/A no subdivisions				
	MAUNA-Near Infrared Imager	Mauna Kea Infrared	NIKI0001 AMENDMENT # 4	(5,738)
	UNIVE-Develop Bio nano Enzymes	University of Michigan	CHK #1031528, SPACE GRANT	4,430
	UNIVE-Study of Drop Breakup	University of Michigan	SPACE GRT CHK #1201263	5,000
	UNIVE/IMP-CS-Carbon Nanotubes	University of Michigan	SPACE GRT CHK #1201263	213
	UNIVE/IMP-Carbon Nanotubes	University of Michigan	SPACE GRT CHK #1201263	381
	UNIVE-Rout Process of Terr & Therm	University of Michigan	CHECK # 465763	(16)
	UNIVE-New Bifunct Cat Carb/Diox Rec	University of Michigan	CHECK # 834013	134
	UNIVE-Dev/Dep Mini-UV Spectrometer	University of Michigan	CHECK # 834013	2,212
	UNIVE-Infra Spectro Ice Nucleation	University of Michigan	CHECK # 834013	312
				6,929

Continued

MICHIGAN TECHNOLOGICAL UNIVERSITY
SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
FOR THE YEAR ENDED JUNE 30, 2005

RESEARCH AND DEVELOPMENT CLUSTER - CFDA NUMBER NOT AVAILABLE - PASSTHROUGH

Federal Agency/CFDA#	Program title/major subdivision Grant/contract title	Pass thru entity if applicable	Contract #	Expenditures
<u>National Science Foundation</u>				
N/A no subdivisions				
	UCAID-04/05 NSF Middleware Init	UCAID	INTERNET 2 AGREEMENT	83,966
	UCAID-03/04 Middleware Initiative	UCAID	INTERNET 2 AGREEMENT	15,875
	EDUCA-NSF Middleware Init	EDUCAUSE	020431	(3,464)
	UNIVE-Teachers Erth Sence Inst	Tennessee Technology University	PO # C12712	(247)
	UNIVE-Deter Elect/Neutrino Rst Ms	University of Texas	UTA03-036 AMENDMENT 2	35,479
				<u>131,608</u>
<u>U.S. Environmental Protection Agency</u>				
N/A no subdivisions				
	NEETF-A Safe Water First Approach	NEETF	AGREEMENT # 98-08H	<u>877</u>
<u>U.S. Department of Energy</u>				
N/A no subdivisions				
	CONSO-BRC-Spnsr-Modif Gibberellin M	Consortium Plant Biotechnology Research Inc.	CPBR AGREE # G012026	10,062
	EATON/CISSIC-Routing Protocols	Eaton Corporation	PO #0011-31975	1,131
	FIRMI-RSI Auger Observatory Souther	FERMILAB	PO 521464/543254/552828MOD 1-4	12,227
	GENER-Dev Partic Filter/Matlab/Sim	General Motors Corp.	TCS51365	35,066
	JOHND-Model Paricu Trap/Diesel Eng	John Deere	PO #871943PE	63,518
	PACIF-PERC-Par Est/Advan/Trns Mdls	Pacific Engineering Corp	CONT # 00001136	231
	UESIN-IME/Layer Splitting Oxide Mat	UES Inc.	S-721-000-002	66,346
	UESIN-IME/Layer Splitting Oxide Mat	UES Inc.	S-721-000-002	28,307
	UNIVE-Structual Charact Battery Mtl	University of Chicago	OF-00544 MOD 1-4	11,616
	KEWEE-Direct Solidif Alum Alloys	UT Battelle Inc.	SUB # 4000034376	24,000
	UTBAL-Plast Lmt for Struct Ceramics	UT Battelle	SUBCONTRACT #4000031515	24,501
	NORTH/ESC-Dwn/Up Lig Bio	North Carolina State University	SUBAWARD #03-1125-01	117,455
	NORTH/ESC-Down & Up Lignin Biosyn	North Carolina State University	SUBAWARD #03-1125-01	29,613
	NORTH/ESC-GRA-Dn & Up Lignon Biosyn	North Carolina State University	SUBAWARD #03-1125-01	2,077
	UESIN-IME-GRA Layer Splitting Oxide	UES Inc.	S-721-000-002	21,714
				<u>447,864</u>
<u>National Institute for Health</u>				
N/A no subdivisions				
	PENNS-ADV ACCT-Analysis Blood Pumps	Pennsylvania State University	SUBRECIPIENT AGRMNT 10/12/04	<u>9,108</u>
TOTAL RESEARCH AND DEVELOPMENT CLUSTER - CFDA NUMBER NOT AVAILABLE - PASSTHROUGH				<u>2,970,807</u>

Concluded

MICHIGAN TECHNOLOGICAL UNIVERSITY
 SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
 FOR THE YEAR ENDED JUNE 30, 2005

STUDENT FINANCIAL AID CLUSTER - DIRECT AWARDS

Federal Agency/CFDA#	Program title/major subdivision Grant/contract title	Pass thru entity if applicable	Contract #	Expenditures
<u>U.S. Department of Education</u>				
		n/a	n/a	
84.033	Federal work-study program	n/a	n/a	\$ 296,206
84.038	Federal perkins loans program	n/a	n/a	3,313,139
84.063	Federal pell grant program	n/a	n/a	2,873,652
84.066	Federal supplemental education opportunity grant	n/a	n/a	225,770
84.268	Federal direct student loans program	n/a	n/a	16,229,966
TOTAL STUDENT FINANCIAL AID CLUSTER - DIRECT AWARDS				<u>22,938,733</u>

MICHIGAN TECHNOLOGICAL UNIVERSITY
 SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
 FOR THE YEAR ENDED JUNE 30, 2005

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

Federal Agency/CFDA#	Program title/major subdivision Grant/contract title	Pass thru entity if applicable	Contract #	Expenditures
<u>U.S. Department of Agriculture</u>				
10.664	Cooperative forestry assistance			
	MINAT-Manag MI Schl Forests	Michigan Department of Natural Resources	OEG GRANT # 05-04	<u>\$ 276</u>
 <u>U.S. Department of Commerce</u>				
11.300	Grants for public works and economic development facilities			
	Advanced Technology Design ATDC/EDA n/a		06-01-04694	<u>621,890</u>
 <u>U.S. Department of Interior</u>				
15.929	Save America's treasures			
	USPAR-Relocation A.E. Seaman Museum n/a		26-04-ML-0037	<u>1,917</u>
 <u>U.S. Department of Labor</u>				
17.600	Mine health and safety grants			
	USLAB-FY2004-YEAR3-Mi Mine Safety n/a		E4R3001919-MOD 2	101,056
	USLAB-FY2005-YEAR4-Mi Mine Safety n/a		E4R4001919-MOD 3	<u>137,016</u>
				<u>238,072</u>
 <u>U.S. Department of Transportation</u>				
20.215	Highway training and education			
	USTRA/MTTI-Kristina Fields Assist n/a		DDEGRD-04-X-00410	<u>28,444</u>
 <u>National Endowment for the Humanities</u>				
45.149	Promotion of humanities - Division of preservation and access			
	NEH - Preservation Needs Assessment	National Endowment for the Humanities	PA-50219-04	<u>1,304</u>

Continued

MICHIGAN TECHNOLOGICAL UNIVERSITY
SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
FOR THE YEAR ENDED JUNE 30, 2005

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

Federal Agency/CFDA#	Program title/major subdivision Grant/contract title	Pass thru entity if applicable	Contract #	Expenditures
<u>National Science Foundation</u>				
47.076	Education and human resources			
	NSF-Engineering in Pre-College Ed	n/a	DUE-9953189 AMD 004	3,778
	NSF-Knowledge Mgmt Infrastructure	n/a	EHR-0125380	122,388
	NSF-Grad/Undergrad Engg Initiatives	n/a	DUE-0220500	74,171
	NSF-Geology Utah's Nat'l Parks	n/a	DUE-9950213-AMD 004	13,923
	TENNE-MAIN-Tchr Erth Sci	Tennessee Tech	SUBCONTRACT DATED 6/30/05	20,388
	TENNE-IMP-Sponsor-Tchrs Erth Sci	Tennessee Tech	SUB CONTRACT DATED 6/7/04	59,450
	TENNE-IMP-Participat-Tchrs Earth Sci	Tennessee Tech	SUB CONTRACT DATED 6/7/04	80,076
	TENNE-IMP-Red Metal Tchrs Erth Sci	Tennessee Tech	SUB CONTRACT DATED 6/7/04	29,688
				<u>403,862</u>
<u>U.S. Environmental Protection Agency</u>				
66.510	Surveys, studies, investigation and special purpose grants within in the office of research and development			
	EPA-36th Annual Air Pollution Wkshp	n/a	X3-83150501-0	<u>5,000</u>
66.606	Surveys, studies, investigation and special purpose grants			
	EPA/SFI-Torch Lk Remediation Moni	n/a	X-96535201-0	<u>15,827</u>
66.951	Environmental education grants			
	EPA - Earth Week Incentive Program	n/a	NE-96505201-0	<u>876</u>
<u>U.S. Department of Education</u>				
84.048	Vocational education - basic grants to states			
	MIEDU-Underwriting Support MI YES	Michigan Department of Labor and Economic Growth	043490/40191	<u>20,000</u>
84.116	Fund for the improvement of postsecondary education			
	USEDU-YR 4-N. Am Mobility-Higher Ed	n/a	P116N000021-03-ACTION NO. 07	7,390
	USEDU/RSI-EHAZ:Earth Hazards Consor	n/a	P116N040003-ACTION NO. 04	1,567
				<u>8,957</u>
84.200	Graduate assistance in areas of national needs			
	USEDU/SFI-YR1-GAANN:Chem Eng Fell	n/a	P200A030192-05-ACTION NO. 03	<u>59,656</u>

Continued

MICHIGAN TECHNOLOGICAL UNIVERSITY
SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
FOR THE YEAR ENDED JUNE 30, 2005

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

Federal Agency/CFDA#	Program title/major subdivision Grant/contract title	Pass thru entity if applicable	Contract #	Expenditures
84.367B	Improving teacher quality state grants			
	MIEDU-Imp Tchr Qual 04/05 Appl Sci	Michigan Department of Education	050290-405	13,911
	MIEDU-Imp Tchr Qual Appl Sci	Michigan Department of Education	050290-405	21,204
	MIEDU-04/05 Imp Tchr Qual Appl Math	Michigan Department of Education	050290-304	9,083
	MIEDU-Imp Tchr Qual Appl Math 04/05	Michigan Department of Education	050290-304	14,163
	MIEDU-Spnsr Imp Tchr Qual Social St	Michigan Department of Education	030290-909	(1,076)
	MIEDU-GRAPCEP-Improv Tchr Quality	Michigan Department of Education	030290-909	14,998
	MIEDU-CCISD-Improv Tchr Quality	Michigan Department of Education	030290-909	11,639
	MIEDU-Spnsr Improv Tchr Qual 05/06	Michigan Department of Education	04290-305	56,462
	MIEDU-CCISD-Improv Teach Quality	Michigan Department of Education	04290-305	11,046
	MIEDU-Imp Tchr Quality 05/06	Michigan Department of Education	040290-210	64,158
	MIEDU-GRAPCEP-Impr Tchr Qual 05/06	Michigan Department of Education	040290-210	1,775
	MIEDU-CCISD-Impr Tchr Quality 05/06	Michigan Department of Education	040290-210	8,160
				<u>225,523</u>

**TOTAL FEDERAL AWARD PROGRAM NOT INCLUDED IN RESEARCH AND DEVELOPMENT OR STUDENT
FINANCIAL AID CLUSTERS -CFDA NUMBER AVAILABLE**

1,631,605

Concluded

MICHIGAN TECHNOLOGICAL UNIVERSITY
SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
FOR THE YEAR ENDED JUNE 30, 2005

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

Federal Agency/CFDA#	Program title/major subdivision Grant/contract title	Pass thru entity if applicable	Contract #	Expenditures
<u>U.S. Department of Agriculture</u>				
U.S. Forest Service				
	USAGR-Study Silviculture (PASS-16)	n/a	43-56A1-5-8022	\$ 8,887
	WESTE-WUPHTN Sign Proj Impl Plan	Western UP Heritage Trail	CO #031047	5,028
				<u>13,915</u>
<u>U.S. Department of Defense</u>				
U.S. Air Force				
	USAIR - IPA #507-Air Force Academy	n/a	IPA # 507 DATED 05/05/05	<u>5,792</u>
U.S. Army - Tank Automotive Command				
	TACOM - CSC 2005 Report	n/a	W56HZV-05-P-L512	<u>3,259</u>
<u>U.S. Department of Interior</u>				
National Park Service				
	YELLO-Clean Snowmobile Challenge 04	n/a	P1571042020	189
	YELLO-Yellowstone-CSC Results 2005	n/a	P1571050534	1,839
				<u>2,028</u>
<u>U.S. Department of Transportation</u>				
Federal Highway Admin				
	USTRA-MTTI-Intersection Safety	n/a	ORDER # 23-03-002600-013-0000	6,962
	MITRA-MTTI-MUTDC 2005	MDOT	# 2003-0063 AUTH12 JOB 59597C	15,646
	MITRA-MTTI-2005 MERL	MDOT	2005-0014 AUTH 1 JOB #80370	11,374
	MITRA-MTTI-Const Warranty Symposium	MDOT	CHK# 4803179	55
	MITRA-MTTI-TDG-LTAP 2004 P2	MDOT	JOB # 80366/80372/81272	249,810
	MITRA-MTTI-TDG-2005 Roadsoft	MDOT	# 2004-0053-ATH Z2 JOB #82726	308,711
				<u>592,557</u>

Continued

MICHIGAN TECHNOLOGICAL UNIVERSITY
SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
FOR THE YEAR ENDED JUNE 30, 2005

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

Federal Agency/CFDA#	Program title/major subdivision Grant/contract title	Pass thru entity if applicable	Contract #	Expenditures
<u>National Aeronautics and Space Administration</u>				
N/A no subdivisions				
	UNIVE-Joseph Esquibel-Carb Diox Fix	University of Michigan	SPACE GRT CHK#1040905	2,500
	UNIVE-Adam DeConinch-Carb Nanotubes	University of Michigan	SPACE GRT CHK #1040905	2,500
	UNIVE-Jason Makela-Inflatable Boom	University of Michigan	SPACE GRT CHK#1040905	2,500
	UNIVE-Jacob Fugal-Holographic Detec	University of Michigan	SPACE GRT CHK#1040905	5,000
	UNIVE-David Dame-Inflatable Boom	University of Michigan	SPACE GRT CHK#1040905	2,500
	UNIVE-Dean Massey-Bismuth Plasma	University of Michigan	SPACE GRT CHK #1040905	5,000
	UNIVE-Kirk Anderson-Vacuum Arc Thru	University of Michigan	SPACE GRT CHK #1055102	42
	UNIVE-V. Bluth-Opt Data Collection	University of Michigan	SPACE GRT CHK #1201262	160
	UNIVE-C Robinson-Biomass Burning	University of Michigan	SPACE GRT CHK #1201262	2,020
	UNIVE-A Maki-Hibn & Bear Bones	University of Michigan	SPACE GRT CHK #1201262	1,632
	UNIVE-M McGee Effect of Hibernation	University of Michigan	SPACE GRT CHK #1201262	2,500
	UNIVE-D Miller-Porous Densities	University of Michigan	SPACE GRT CHK #1201262	256
	UNIVE-J Fugal-HOLODEC II	University of Michigan	SPACE GRT CHK #1201262	1,880
	UNIVE-Quant Hydrogeological Contro	University of Michigan	CHECK #834014	51
	UNIVE-Rdar Refl & Rain Est fr Space	University of Michigan	CHECK #834014	522
	UNIVE-MI Space Grant Constm Admin C	University of Michigan	CHECK # 1099750	1,495
	UNIVE-MI Spc Grnt Const Admin	University of Michigan	CHECK # 868549	1,910
	UNIVE-Summer Aerospace Eng-Sponsor	University of Michigan	SPACE GRANT CH#1047510	5,000
	UNIVE-Pre College Prg for Minor-SP	University of Michigan	SPACE GRT CHK #1048061	5,000
	UNIVE-Women & Min Pre College-SP	University of Michigan	SPACE GRT CHK #1048063	6,937
				<u>49,406</u>
<u>National Science Foundation</u>				
N/A no subdivisions				
	DAPCE-1 Tst/MTU Engineering Enterpr	DAPCEP	DAPCEP AGREEMENT	1,697
	DAPCEP-I Test/MTU Engineering Enter	DAPCEP	DAPCEP AGREEMENT	4,710
	NSF-Matthew Drewek Fellows	n/a	DGE-0004144	37,737
	NSF-J Fugal Fellow 04-05	n/a	DGE-0004144	37,985
	NSF - Jacob Fugal Fellowship	n/a	DGE-0004144	2,292
				<u>84,421</u>

Continued

MICHIGAN TECHNOLOGICAL UNIVERSITY
 SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS
 FOR THE YEAR ENDED JUNE 30, 2005

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

Federal Agency/CFDA#	Program title/major subdivision Grant/contract title	Pass thru entity if applicable	Contract #	Expenditures
<u>U.S. Department of Education</u>				
	Unknown			
	Robert C. Byrd Honors	n/a	n/a	36,450
	MIEDU-CCISD-Improv Tchr Quality	Michigan Department of Education	GRANT # 030290-917	7,230
	MIEDU-GRAPCEP-Imp Tchr Quality	Michigan Department of Education	GRANT # 030290-917	17,494
	MIEDU-Impr Teach Quality - Science	Michigan Department of Education	GRANT # 030290-917	(2,327)
	COPPE-Tch Ameri History Ntl Stories	Copper Country Intermediate School District	Check \$1591	8,254
				<u>67,101</u>
TOTAL FEDERAL AWARD PROGRAMS NOT INCLUDED IN RESEARCH AND DEVELOPMENT OR STUDENT FINANCIAL AID CLUSTERS - CFDA NUMBER NOT AVAILABLE				<u>818,479</u>
TOTAL EXPENDITURES OF FEDERAL AWARDS				<u>\$ 45,170,767</u>

Concluded

Michigan Technological University
 Schedule of Findings and Questioned Costs
 For the Year Ended June 30, 2005

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:	\$768,830
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