

Sponsored Program Summary  
2<sup>nd</sup> Qtr FY15 Activities  
February, 2015

Dave Reed  
Vice President for Research

***Michigan Tech***

# Outline

- Sponsored Awards, 2<sup>nd</sup> Qtr FY15
- Research Expenditures, 2<sup>nd</sup> Qtr FY15
- Intellectual Property/Commercialization, 2<sup>nd</sup> Qtr FY15
- Corporate Sponsorship, 2<sup>nd</sup> Qtr FY15
- Core Facilities [ACMAL]

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# Sponsored Awards, 2<sup>nd</sup> Qtr FY15

Sponsor	Proposals Submitted		Awards Received		Awards Received (\$)		Variance \$	Variance %
	FY '15 as of 12/31	FY '14 as of 12/31	FY '15 as of 12/31	FY '14 as of 12/31	FY '15 as of 12/31	FY '14 as of 12/31		
NASA	45	38	17	15	1,419,298	1,007,477	411,821	40.9%
National Science Foundation	125	103	47	35	7,622,181	5,826,773	1,795,408	30.8%
US Department of Agriculture	34	41	38	40	1,431,748	1,151,303	280,445	24.4%
US Department of Defense	32	29	25	37	6,417,041	4,581,282	1,835,759	40.1%
US Department of Education	-	-	-	-	-	-	-	-
US Department of Energy	18	11	7	8	529,431	433,465	95,966	22.1%
US Department of HHS	17	16	8	6	1,456,632	619,289	837,343	135.2%
US Department of Transportation	17	11	16	10	2,347,315	1,904,218	443,097	23.3%
Other Federal Agencies*	19	25	13	17	712,375	801,944	-89,569	-11.2%
Federal Agency Total	307	274	171	168	21,936,021	16,325,751	5,610,270	34.4%
State of Michigan	28	12	22	11	2,448,968	1,869,753	579,215	31.0%
Industrial	116	126	99	109	5,841,925	3,724,747	2,117,178	56.8%
Foreign	17	11	5	3	227,719	171,400	56,319	32.9%
All Other Sponsors	33	37	18	26	468,109	994,689	-526,580	-52.9%
Subtotal	501	460	315	317	30,922,742	23,086,340	7,836,402	33.9%
Gifts**	-	-	180	192	5,281,271	1,707,597	3,573,674	209.3%
Crowd Funding	-	-	12	7	11,550	14,346	-2,796	-19.5%
Grand Total	501	460	507	516	\$36,215,563	\$24,808,283	\$11,407,280	46.0%

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# Research Expenditures, 2<sup>nd</sup> Qtr FY15

College/School/Division	FY2015	FY2014	Variance	%
Administration*	1,923,860	2,520,499	(596,639)	-23.7%
College of Engineering	12,418,386	11,860,861	557,525	4.7%
College of Science & Arts	6,987,218	6,137,197	850,021	13.9%
Pavlis Honors College	144,933	166,938	(22,005)	-13.2%
Keweenaw Research Center (KRC)	2,725,446	3,770,719	(1,045,273)	-27.7%
Michigan Tech Research Institute (MTRI)	4,807,238	5,348,823	(541,585)	-10.1%
School of Business & Economics	786,357	665,665	120,692	18.1%
School of Forest Resources & Environmental Science	2,638,009	2,875,138	(237,129)	-8.2%
School of Technology	224,155	236,859	(12,704)	-5.4%
Total	32,655,602	33,582,699	(927,097)	-2.8%

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# Intellectual Property, 2<sup>nd</sup> Qtr FY15

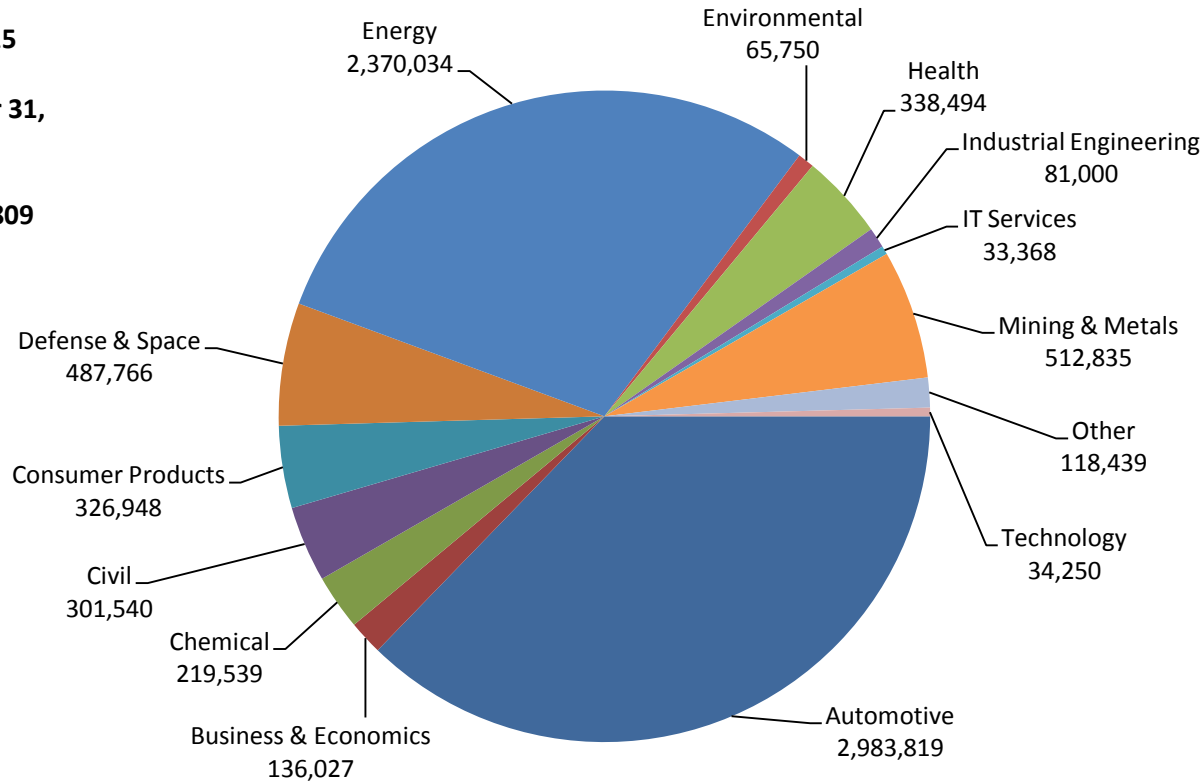
		FY15	FY14	
Disclosures Received <sup>2</sup>		15	22	-32%
Nondisclosure Agreements		55	48	15%
Patents Filed or Issued <sup>2</sup>		6	11	-46%
License Agreements		6	7	-14%
Gross Royalties		\$ 116,354	\$ 119,514	- 3%

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# 2<sup>nd</sup> Qtr FY15 Corporate Sponsorship

Sponsored Awards  
-Industry-  
COMBINED  
Fiscal Year 2015  
2nd Quarter  
Ended December 31,  
2014

TOTAL: \$8,009,809



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# Core Facilities

- Shared Research Equipment and Core Facilities Working Group, April, 2013
  - Recommend principles for the use and maintenance of shared equipment and core facilities, including staffing and financial sustainability.



# Core Facilities

- Problems
  - No mechanism to insure equipment replacement or enhancement
  - Usage of single pieces of equipment not sufficient to support staff and train users
  - Units do not have sufficient funds to maintain
  - More people using a piece of equipment, more difficult to maintain and enforce operating procedures

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## RESEARCH

Research > VP for Research Office > Core Facilities

### OUR RESEARCH

### ADMINISTRATION

#### VP for Research Office

Centers and Institutes -

Internal Awards -

Research Advisory Council -

Proposal and Award Guide -

Expertise -

Stats and Data -

[Core Facilities](#) -

Budget Office -

## Core Facilities

Core facilities provide the University with critical resources. They support interdisciplinary and guest research by providing communal space, tools, and equipment. University facilities are able to apply for funds to cover costs associated with research facilities, like replacing and maintaining equipment.

### Our Current Core Facilities

Michigan Technological University's core facilities are an invaluable asset, and the list of recognized facilities will continue to grow.

Read more about each of our current core facilities below.



#### Advanced Power Systems Research Center

Home to internal combustion engine test beds and dynamometers for powertrain research and educational purposes.

### APPLICATION PROCESS

To learn about how to earn core facility status, read about the [core facilities application process](#).

### RESOURCES

**Proposal Deadline:** March 5th

If you have questions, please contact

Dave Reed  
or  
[Cathy Codere](#)

PEOPLE

EVENTS

SUPPORT

NEED TO KNOW

CONTACT

http://mcff.mtu.edu/acmal/ ACMAL: Applied Chemical ...

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CONTACT STATUS

 **ACMAL**  
Applied Chemical and Morphological  
Analysis Laboratory

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ACMAL is a CORE FACILITY serving Michigan Tech  
and guest researchers.

ELECTRON MICROSCOPY + X-RAY FACILITY + SCANNING PROBE MICROSCOPY +

SURFACE ANALYSIS FLUORESCENCE OPTICAL MICROSCOPY +

You are here: Browse: *Home*

**LATEST NEWS**

- Scintag X2 X-ray Diffractometer being installed in ACMAL X-ray Facility
- New vibration isolation platform is

**HOME**

Welcome  
**ACMAL welcomes new users!**

http://mcff.mtu.edu/acmal/

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615.pdf - Adobe Acrobat Pro

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1 / 4 72.6%

Please fill out the following form. Highlight Existing Fields

Form: 11-20-12

## Laboratory Inspection Form

Principal Investigator: Owen Mills	Laboratory location: 615 Auger Lab
Inspection performed by: Al Niemi, David Dixon	Inspection Date: 03-13-14
Reviewed and Approved:	Date:

General Safety	Yes	No	NA	Comments
1 A laboratory risk assessment has been conducted to identify potential risks and define procedures that will be used to minimize those risks.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2 All individuals working in the laboratory have appropriate training and follow standard laboratory practices to minimize the risks associated with their work. Note: The laboratory's principal investigator is responsible for ensuring that laboratory personnel are appropriately trained and understand the risks associated with work in the laboratory. Personnel must receive annual updates or additional training when procedural changes occur.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3 Hazard signs with emergency contact information are posted at the entrance to the laboratory and should incorporate the universal biohazard symbol when infectious agents are present.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Contact information posted outside door. Need to have new University approved emergency response poster placed outside lab.
4 The laboratory is well maintained, with work and storage areas organized for safe and efficient use. Drawers and cabinets are closed when not in use. Access to exits and safety equipment is unobstructed.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5 In rooms equipped with automatic sprinkler systems, sprinkler heads are unobstructed. All furniture and other materials are located beneath a plane that is 18 inches below the level of the sprinkler heads.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6 In areas where items are stored or placed overhead, there is access to a type II or better step ladder or a similar device.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7 All hazardous liquids are stored at or below eye level.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

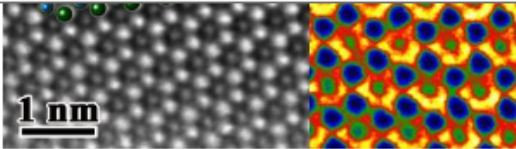
Page 1 of 4

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http://mcff.mtu.edu/acmal/ ACMAL: Applied Chemical ...

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Receives NSF Grant for Transmission Electron Microscope



**GOOGLE RESOURCE CALENDARS**

- Check the STATUS First
- JEOL JSM-6400 SEM
- JEOL JEM-2010 TEM
- Philips XL 40 ESEM
- Hitachi FB-2000A FIB
- Hitachi S-4700 FE-SEM
- Veeco Dim 3000 Calendar Preview
- Veeco Nano II Calendar Preview
- Leica CPD 030 Calendar Preview
- Perkin Auger
- Scintag XDS-2000 Powder
- Scintag XDS-2000 PTS
- Siemens D500 Powder
- Philips Laue
- Xenometrix EX-6600 EDS

The Applied Chemical and Morphological Analysis Laboratory (ACMAL) is a University Core Facility which is part of the Materials Characterization & Fabrication Facilities. ACMAL houses an extensive array of electron microanalytical and X-ray instruments. ACMAL is managed by the Department of Materials Science and Engineering.

**ELECTRON OPTICS FACILITY**

The **Electron Optics Facility** includes three scanning electron microscopes (SEM, FE-SEM, ESEM), a high-resolution transmission electron microscope (TEM), and a focused ion beam milling system (FIB).

- X-RAY FACILITY
- SCANNING PROBE MICROSCOPY FACILITY
- SURFACE ANALYSIS FACILITY
- FLUORESCENCE OPTICAL MICROSCOPY FACILITY

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