

Sponsored Program Summary
1st Quarter, FY14
December 13, 2013

Dave Reed
Vice President for Research

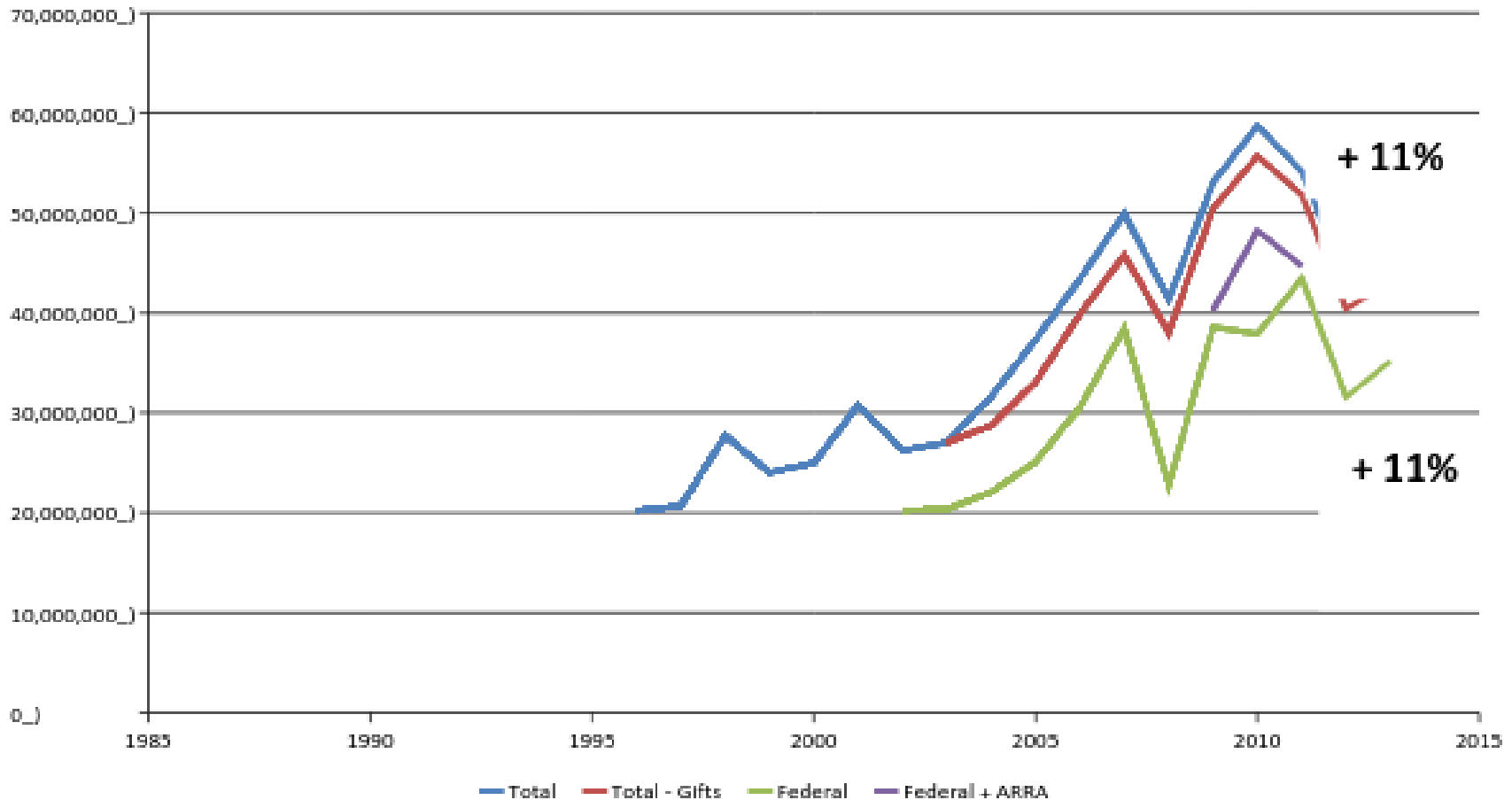
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Outline

- Sponsored Awards, 1st Qtr FY14
- Research Expenditures, 1st Qtr FY14
- Intellectual Property/Commercialization, 1st Qtr, FY14
- Corporate Sponsorship, 1st Qtr FY14
- Superiorideas.org One-Year Update

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FY13 Sponsored Program Awards



Sponsored Awards, 1st Qtr FY14

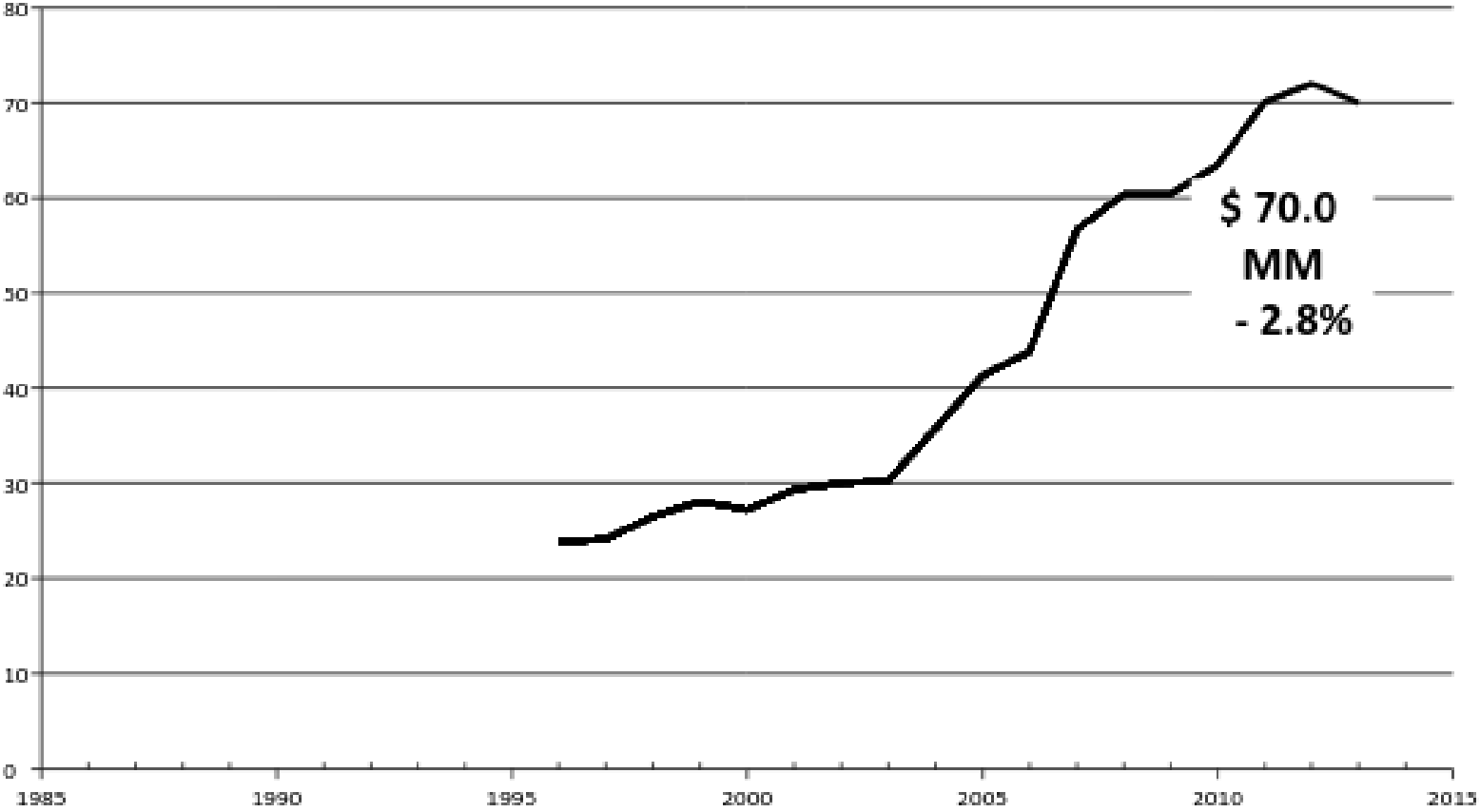
	Proposals Submitted		Awards Received		Awards Received (\$)		Variance	Variance
	FY '14	FY '13	FY '14	FY '13	FY '14	FY '13		
Sponsor	as of 9/30	as of 9/30	as of 9/30	as of 9/30	as of 9/30	as of 9/30	\$	%
NASA	10	12	8	14	354,993	1,567,194	-1,212,201	-77.3%
National Science Foundation	48	62	32	36	5,465,393	6,382,121	-916,728	-14.4%
US Department of Agriculture	36	11	35	35	894,102	927,213	-33,111	-3.6%
US Department of Defense	14	16	19	17	2,310,912	2,781,310	-470,398	-16.9%
US Department of Education	-	-	-	2	-	107,827	-107,827	-100.0%
US Department of Energy	7	5	6	3	370,943	303,460	67,483	22.2%
US Department of HHS	1	4	4	5	593,292	309,090	284,202	91.9%
US Department of Transportation	7	6	7	7	617,675	255,129	362,546	142.1%
Other Federal Agencies*	6	7	10	10	496,761	234,973	261,788	111.4%
Federal Agency Total	129	123	121	129	11,104,071	12,868,317	-1,764,246	-13.7%
State of Michigan	9	7	5	7	663,504	216,497	447,007	206.5%
Industrial	81	51	51	40	1,045,020	656,557	388,463	59.2%
Foreign	1	4	2	4	163,000	152,640	10,360	6.8%
All Other Sponsors	18	27	19	20	534,302	593,428	-59,126	-10.0%
Subtotal	238	212	198	200	13,509,897	14,487,439	-977,542	-6.7%
Gifts**	-	-	71	46	589,133	1,477,795	-888,662	-60.1%
Crowd Funding	-	-	-	-	12,595	-	12,595	-
Grand Total	238	212	269	246	\$14,111,625	\$15,965,234	-\$1,853,609	-11.6%

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Sponsored Awards, 1st Qtr FY14

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Research Expenditures, FY13



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Research Expenditures, 1st Qtr FY14

Michigan Technological University				
Total Research Expenditures by College/School/Division				
Fiscal Year 2014 & 2013				
As of September 30, 2013 and September 30, 2012				
College/School/Division	FY2014	FY2013	Variance	%
Administration*	2,212,402	1,421,259	791,143	55.7%
College of Engineering	5,234,727	4,752,955	481,772	10.1%
College of Science & Arts	2,284,916	2,406,993	(122,077)	-5.1%
Institute for Leadership and Innovation (ILI)	73,210	48,720	24,490	50.3%
Keweenaw Research Center (KRC)	1,815,249	1,987,139	(171,890)	-8.7%
Michigan Tech Research Institute (MTRI)	2,280,283	2,379,356	(99,073)	-4.2%
Michigan Tech Transportation Institute (MTTI)	35,914	158,372	(122,458)	-77.3%
School of Business & Economics	155,382	203,574	(48,192)	-23.7%
School of Forest Resources & Environmental Science	1,317,231	1,638,095	(320,864)	-19.6%
School of Technology	121,242	94,215	27,027	28.7%
Total	15,530,556	15,090,678	439,878	2.9%

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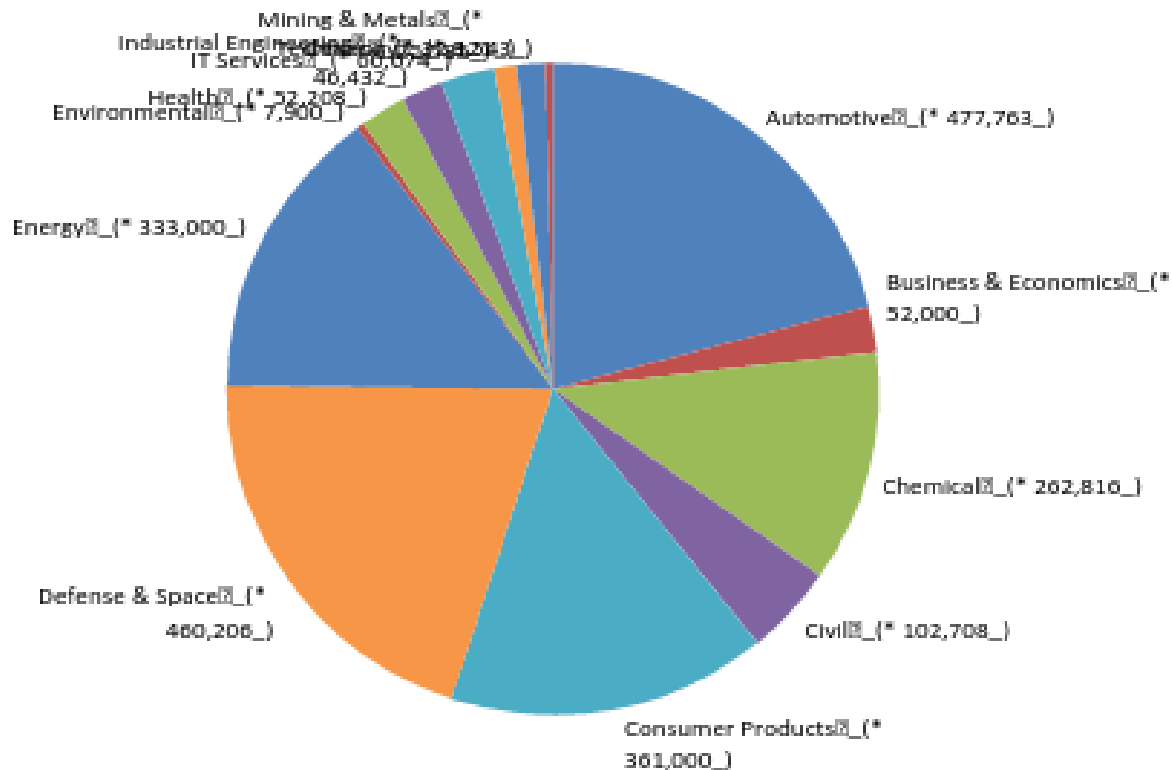
Intellectual Property, 1st Qtr FY14

		FY14	FY13	
Disclosures Received ²		14	14	0.0%
Nondisclosure Agreements		25	24	4.2%
Patents Filed or Issued ²		7	10	-30.0%
License Agreements		4	13	-69.2%
Gross Royalties		90,889	61,621	47.5%

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Corporate Sponsorship

Sponsored
Awards
-Industry-
COMBINED
Fiscal Year 2014
1st Quarter
Thru September
30, 2013
TOTAL:
\$2,282,756



Michigan Tech



A Mobile Clinic for Ghana

It's an interesting paradox: villagers in the most remote Ghanaian towns often receive better medical care than those in towns outside of larger cities. With a mobile clinic, we can help mitigate the spread of dangerous diseases and illnesses, and provide some emergency services to those most in need.



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Mobile Medicine: Bringing Healthcare to Remote Ghanaians

Researcher(s): [Erik Wachlin](#)

Institution: [Michigan Technological University](#)

Funders (31)

Views (1,844)

Why This Project Is Important

Most villages in Ghana have extremely limited access to medical facilities in cities because of a lack of adequate infrastructure. And, the clinics that do exist in these small villages have limited treatment abilities. Many ailments contracted by Ghanaians could be diagnosed, or even treated, on site—a service that village doctors currently cannot provide. The mobile clinic will bring basic healthcare services to villages surrounding large Ghanaian cities.

Project Description

Mobile Wellness Systems, part of Michigan Technological University's International Business Ventures Enterprise, is designing a mobile medical clinic to be handed off to a hospital in the city of Sunyani, Ghana. The vehicle, an E350 van donated by Michigan Tech, will be outfitted with medical equipment that can be used to diagnose, prevent, and treat various medical diseases and illnesses that are common in Ghana.



\$8,319

of \$8,000 fund goal

The average donation for this project is \$268

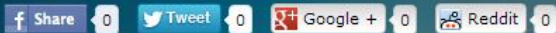
0 | 104% | \$4,000

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Open-Source Concrete Analysis

Mixing concrete is a bit of an art. Not enough air in the mix can cause concrete to crack when it freezes; too much air yields weak results. To check the final result, engineers polish samples of hardened concrete, and then count air bubbles by hand. Developing an open-source, computerized alternative will save engineers from this time-consuming task.



Paving the Way toward an Open-Source Concrete Analysis Program

Researcher(s): [Gerald Anzalone](#)

Institution: [Michigan Technological University](#)

Funders (1)

Views (334)

Why This Project Is Important

As our nation's infrastructure ages, state and federal transportation agencies must meet a rising need for replacements with decreasing staff and increasing technological demands. The availability of automated, open-source solutions has the potential to make the lives of analysts much easier, and would offer cost-competitive alternatives to expensive analytical instruments—and to time-consuming procedures.

Fast, easy, and inexpensive analysis of air voids (the air bubbles in hardened concrete) is mandatory for quality assurance and accountability.

Project Description

Michigan Technological University has previously developed an automated technique for analyzing the air voids in hardened concrete. With this approach, a common office scanner captures images of a



\$8,000

of \$8,000 fund goal

The average donation for this project is \$8000

0 | 100% | \$8,000

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Superiorideas.org Update

Metrics for First Year

Total Funds Raised:	\$ 67,474.86
Number of Donations from Individuals:	258
Average Donation from Individuals:	\$ 123.72
Page Views:	59,104
Unique Visitors:	10,229

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Superior Ideas Donations

October 11, 2012 to
October 11, 2013

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