

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

Dave Reed
Vice President for Research

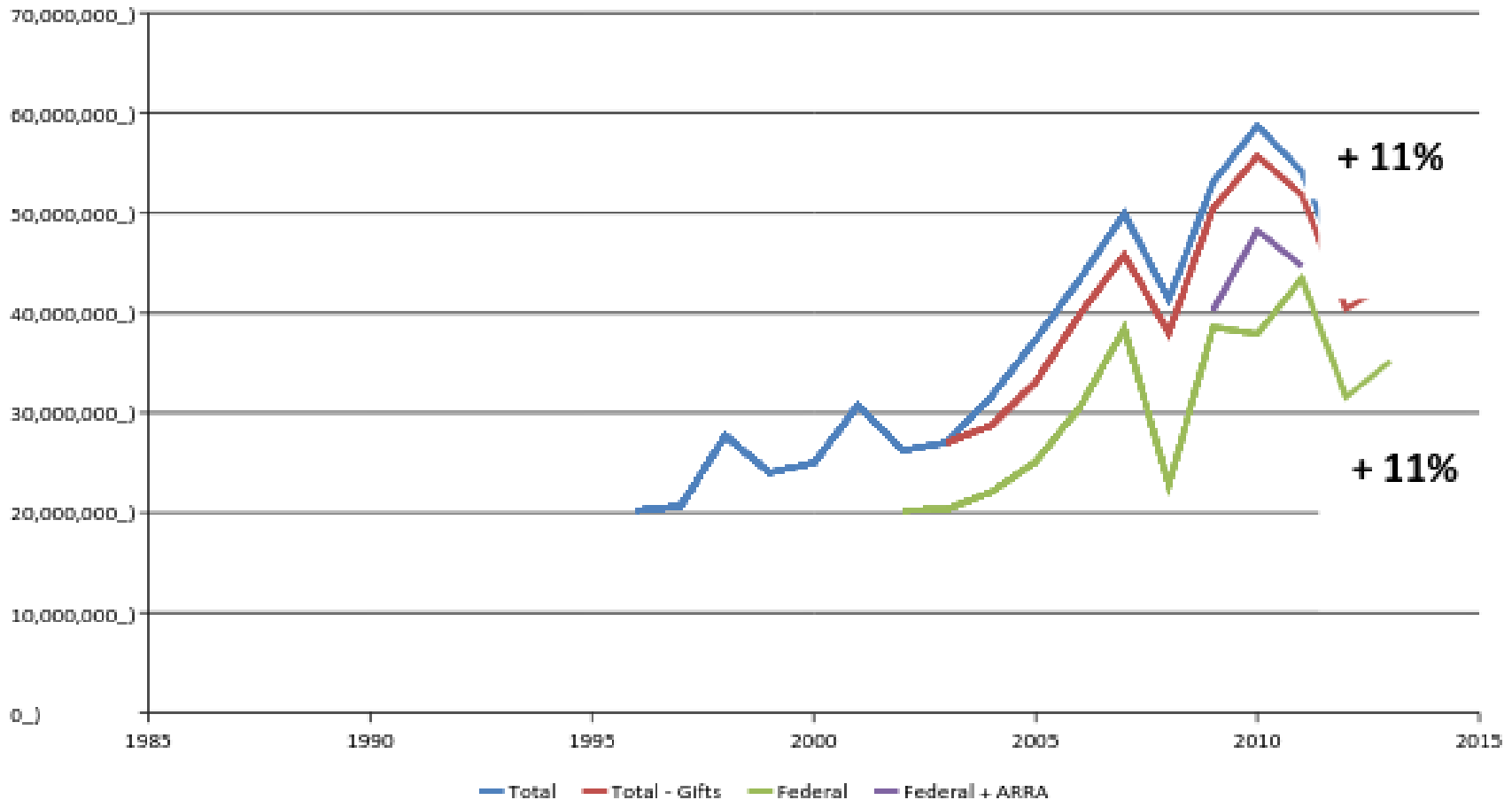
Michigan Tech

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



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Sponsored Awards, 1st Qtr FY14

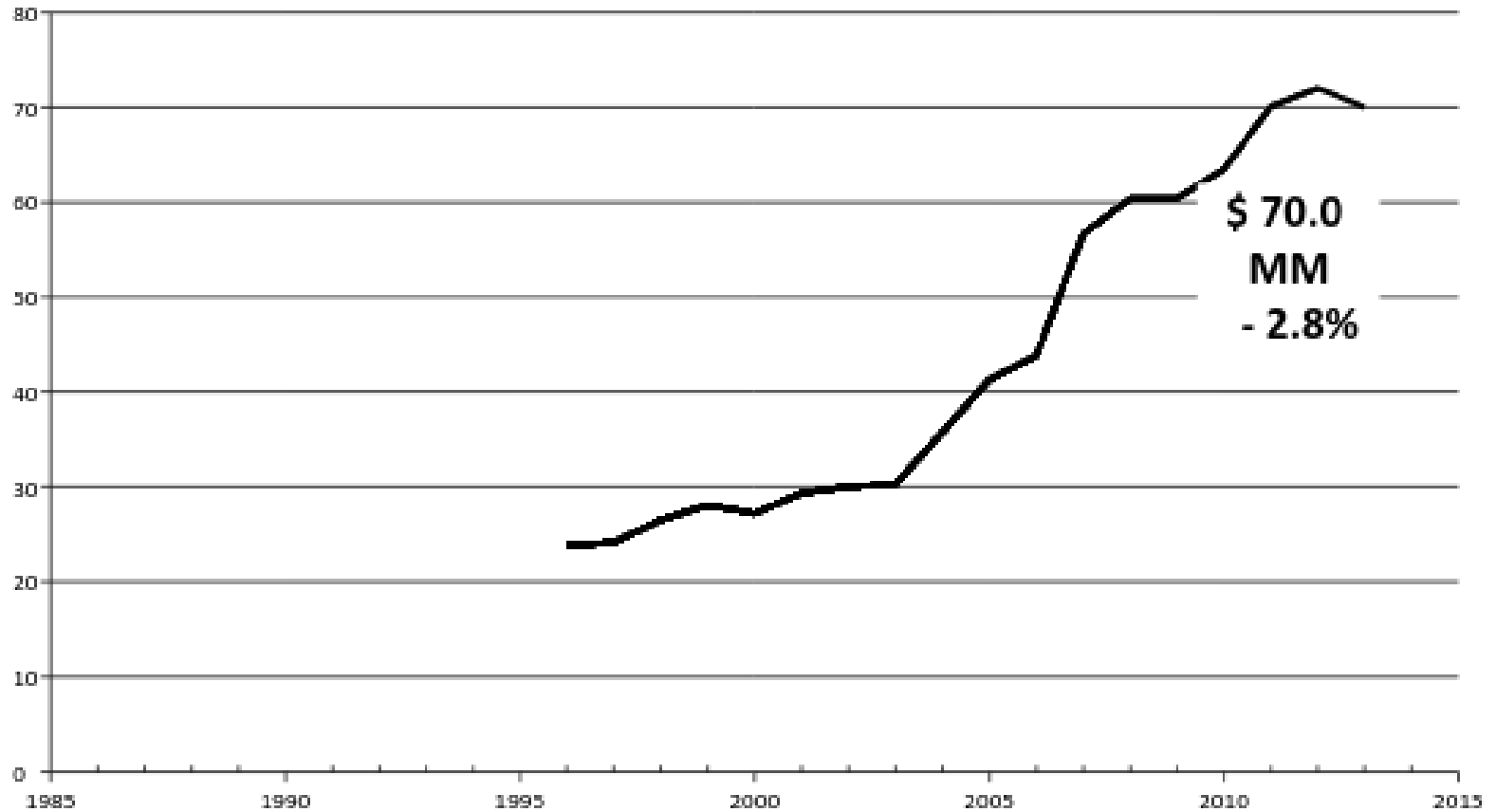
| | Proposals Submitted | | Awards Received | | Awards Received (\$) | | Variance | Variance |
|---------------------------------|---------------------|------------|-----------------|------------|----------------------|--------------|--------------|----------|
| | FY '14 | FY '13 | FY '14 | FY '13 | 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

| | 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 | \$ | % |
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| Crowd Funding | - | - | - | - | 12,595 | - | 12,595 | - |
| Grand Total | 238 | 212 | 269 | 246 | \$14,111,625 | \$15,965,234 | -\$1,853,609 | -11.6% |

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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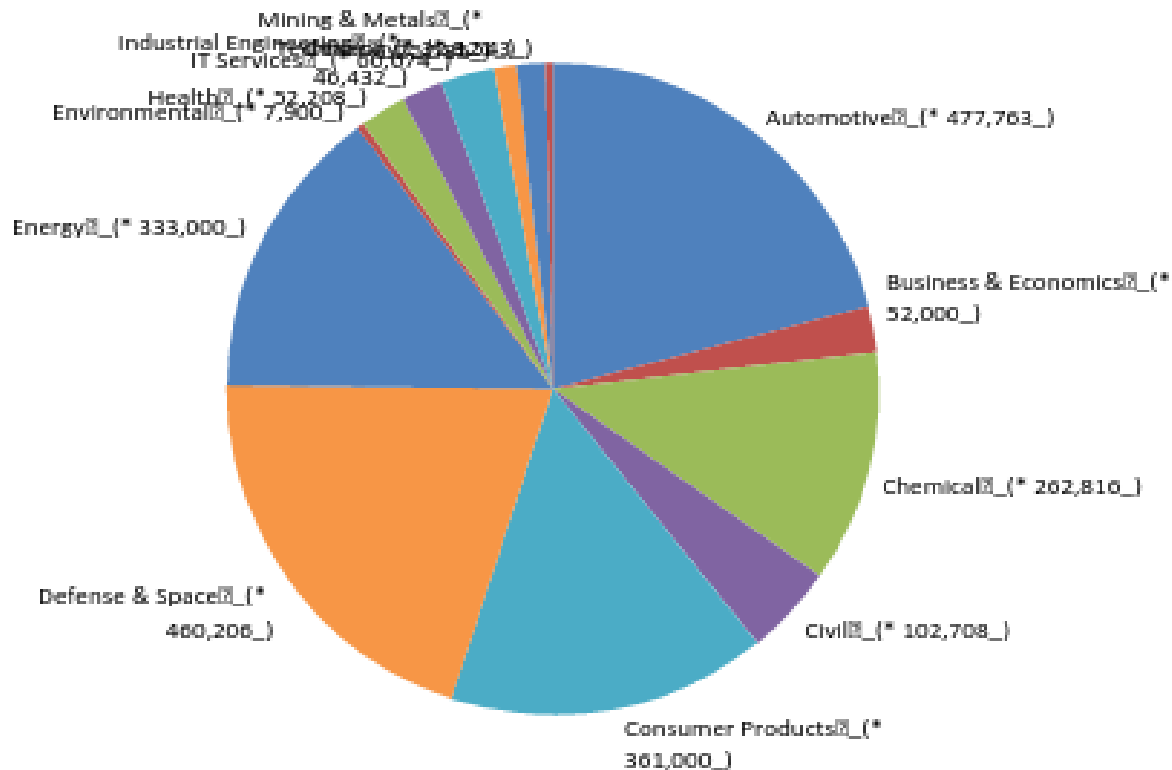
Intellectual Property, 1st Qtr FY14

| | | 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

Michigan Tech

