



ENTERPRISE FORUM GREAT LAKES

Programs

May 13

Space, STEM & The Stars: What (Final) Frontiers ???



An Astronaut's View of Space and S.T.E.M.

The Exploration of Space is not just a dream for the few; it impacts the lives of the many every single day. Do you wear scratch-resistant glasses, invisible braces or athletic shoes? Use cordless tools or a cell phone? These, and many more of the products we take for granted every day, came about for two reasons – our travel to the moon and the stars, and our focus on STEM education.

Whether you're a high school student or a CEO, an entrepreneur or educator, an astronomer or just curious, we in-

vite you to join us — a former astronaut, an astrophysicist, a serial entrepreneur and their visions of Earth, Space, the beginnings of the cosmos and more — on May 13 as we learn about:

- How the modern “Race for Space” began, and how it has impacted US education for decades.
- What our world look likes from 260 miles up, and how the study and development of space continues to evolve and grow.
- How the basics taught as STEM – Science, Technology, Engineering and Math – are more important now than ever, to the country and to the state of Michigan.

Speakers: (Click on link for Biography)

- [Dr. Tony England – Former Astronaut \(Apollo, Spacelab, International Space Station\); Dean, College of Engineering and Computer Science, UM-Dearborn](#)
- [Dr. Katherine Freese – Astrophysicist, U of M Professor of Physics, Cosmologist and Expert on the Big Bang](#)
- [John Cole – International Business Executive, Serial Inventor, STEM Advocate](#)
- [Shelley Irwin, Q&A – Radio Host / Producer, WGVU, NPR/PBS West Michigan](#)

5:30 p.m. Registration and Check-in

6:00 p.m. Start of Program

8:00 p.m. Local Post-Event Networking at Host Sites. Light Refreshments

9:00 p.m. End of Evening

Locations:

- Grand Rapids (CHANGE) – Richard M. DeVos Center, Room 109-D, 401 W. Fulton St. Grand Rapids
- Metro Detroit – UM-Dearborn, Borg Warner Auditorium, 4901 Evergreen Road, Dearborn

TICKETING FOR GRAND RAPIDS SITE-ATTENDEES



TICKETING FOR DEARBORN SITE-ATTENDEES



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Past Programs

January 8 - *Complete*: **Medical Devices -Michigan's "Next Big Thing" ... But at What Cost??**

January 30 - *Complete*: **ACE 2014 (MITEF partner event)**

January 30 - *Complete*: **ACE & Breakthrough Technologies – MITEF & *MIT Technology Review* magazine**

February 24 - *Complete*: **Micro-Breweries — All Local, All Growing ... An Ale of Three Cities**

April 23 – *Complete*: **Michigan Weather: Forecast Technologies & Impact**

New Program Content

The following programs are still in the planning stages. If you are interested in helping to make these pro-

grams come to fruition, we invite you to join one of our MITEF Event Planning Teams.

New Agricultural Technologies

No longer limited to endless acres and John Deere combines, the nature of agriculture in Michigan is rapidly evolving. From high-tech tools to urban homesteading, from low-carbon delivery and neighborhood sourcing to aqua-culture and farms-in-a-box, farming and agriculture are hot again all over Michigan.

Our program will look at some of the physical, analytical and applied technology changes shaking up Michigan's oldest industry, and the focus of new activity from Detroit to the U.P. Host sites — Metro Detroit, West Michigan and the Upper Peninsula.

Industrial Design & Innovation

Watches, TVs, cell phones, washing machines, computers – Industrial Design and Fashion is becoming more and more of a critical element in product engineering, marketing and consumer acceptance. SE and West Michigan have long been leaders in the use of design in their innovations. How are corporate design strategies and needs changing? What technologies and resources are Michigan's top design programs putting in place to help companies move even faster?

Our program will bring experts in all facets of design and innovation together to talk about technological change and entrepreneurship in the context of design in product innovation. Host sites in Southeast and West Michigan.

Drones & Space Commercialization

Private companies have historically commercialized what was on the ground (inner space), and governmental entities took care of outer space. The retasking of NASA, new and simpler technologies, and lower cost are merging the commercialization of inner and outer space, making it both practical and ordinary in terms of traffic and safety patrols, UPS deliveries, etc. What's enabling these leaps in scale and utility? What of our concerns about privacy?

Our program will bring several of Michigan's leading companies and university spin-outs together to talk about the commercialization of space, and the impact that will have on our daily lives. Host sites TBD.

Energy, Fracking & Climate

New energy resource recovery techniques, including hydraulic fracking, are expanding the supply of US oil and natural gas, reducing our dependence on overseas oil and increasing our energy security. It is also one of today's most contentious issues, with conflicting opinions and facts. What are the benefits and risks? How do new recovery techniques compare with those used in the past? Will new energy recovery techniques have an impact on potential climate change?

We will bring in some brief video clips from the MITEF Houston and Pittsburgh chapters to help facilitate our dis-

cussions. Host sites in Southeast and West Michigan.

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