

The X PRIZE and the Human Breakout into Space

Presented By: Gregg Maryniak

Wednesday, January 24th



Photographed by: Jim Campbell at Aero News Network

Location:

WeaverRidge Golf Club
 5100 WeaverRidge Blvd.
 Peoria, IL 61615
 Phone: (309) 691-3344

Schedule:

5:15 PM	Social/Sign In
5:55 PM	Introduction of Speaker
6:00 PM	Dinner
6:45 PM	Program

Topic of Discussion

Until recently, "everybody knew" that only the largest governments on Earth could launch humans into space. That all changed when the winners of the Ansari X PRIZE made three human spaceflights in 2004...for less than the cost of a couple of space suits.

Guest Speaker

Gregg Maryniak is the Director of the J.S. McDonnell Planetarium, Vice President for Aerospace Science of the St. Louis Science Center and Executive Vice President of the X PRIZE Foundation. He formerly served as Executive Director of the X PRIZE Foundation, Senior Scientist of the Futron Corporation and Chief Executive Officer of the Space Studies Institute of Princeton.

Maryniak is a member of the faculty of the International Space University. The American Institute of Aeronautics and Astronautics named him a Distinguished Lecturer for his presentation, "The Harvest of Space." He was awarded Russia's Tsiolkovsky Medal for his work on the use of the resources of free space. He received the Space Frontier Foundation's *Vision to Reality Award* for his role in creating the Lunar Prospector Mission launched in 1998.

An instrument-rated commercial pilot with more than 30 years of flight experience, Maryniak was the Flight Director for Erik Lindbergh's *New Spirit of St. Louis* flights in 2002. In 2006 he was the recipient of the St. Louis Flight Instructors Association's James Byrnes Aviation Excellence Award. He serves as a member of the Board of Directors of the Lindbergh Foundation.



Program Dates

September 23
 Precision Driving School

October 12
 Fueling Our Future Transportation Needs

November 16
 ICC Design Competition

December 9
 SAE Social Event

Wednesday, January 24
 X-Prize – The \$10 Million Prize

Tuesday, February 13
 CAT OEM Transmissions

March
 State Farm Crash Investigation

March
 Auto Show – Student Projects

April
 SWE Career Development

May
 Mapleton Foundry Tour



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Details

Meals Include: two entrees—one being Chicken Marsala and the other Prime Rib. Please register at sae_reservations@yahoo.com or call 800-512-1919. Please be sure to include which entrée you would like in your reservation. Reservation deadline is January 16th.

Pricing:

\$12.00 – SAE Member
\$18.00 – Non-Member
\$6.00 – SAE Student Member

Event Sponsor

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- PLM Solutions

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ICC Design Competition



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Event Lead Note:

Fellow SAE Members,

Earlier this year I addressed you and gave a high level description of the make up of this year's program committee as well as gave a short overview of this year's upcoming programs. The program year is now in full swing and nearly half over! Wow! The January program may mark the mid-point of our program year, but it has the potential to be the highlight program for the year. I will explain more in just a few minutes.

Before that, I would like to encourage volunteerism within our membership. CIS-SAE tries hard to develop programs that will be of interest to our members. The challenge is coming up with new, fresh ideas to mix with the "old-standbys" that always draw a good crowd and great discussion. In a few months a new program and communication committee will be forming and will be looking for additional talent. Consider volunteering to help develop a program or to help communicate it to other members. It is not much work and is very rewarding, just ask anyone of us on the executive board.

Now, on to the topic at hand: **"X-Prize and the Human Breakout into Space."** CIS-SAE has booked a national expert and leading spokesperson for the X-Prize, Gregg Marynaik. He will be sharing details about the great race into space by both private companies and individuals. The results have led to true innovation and for the winner, a \$10,000,000 reward! Come join us at Weaver Ridge to learn more about this new and exciting topic.

Matthew Leustek
Program Committee Chair



Communication Note:

Fellow CIS-SAE Members,

Thank you for your support so far this year through attendance and feedback to your CIS-SAE governing board. CIS-SAE has lead four excellent events so far this season ranging from highly technical to social in nature and content. We hope that you, our members whom we serve, have found them valuable, interesting and fulfilling. It is always our mission to bring you events that contribute to your life long quest for learning and professional development. My compliments and appreciation go to our Section Chair, Matt Rampenthal, for leading the governing board this year and to our Program Committee Chair, Matt Leustek, for leading his team in preparing the events. Of course much appreciation goes to our Event Leaders who are responsible for actually making these events a reality through much planning and hard work. They are also the members who give to us the event information and content to communicate and publish for you! We on the Communications Committee are happy to be able to support the Program Committee and to serve you the members through the distribution of regular and timely information about upcoming events.



I want to express my appreciation for my dedicated team who have made all of our communications possible: Matthew Anderson, Guillermo Herrera, and Ben Fong. Through much hard work and dedication they have demonstrated teamwork, accepted coaching to learn and improve our materials and consistently delivered our eCentroid, poster, web site updates, press release and postcards. We have streamlined our process to include a totally electronic connection to the printer of our postcards which are now sent only to those who do not have email connectivity. This enables us to manage all member communications in a consistent electronic manner while reaching both our email and postcard



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audiences. I hope to be able to introduce to you next year yet another Communications team member who can help us deliver to you more follow-up reports on our events.

My personal association with SAE reaches back to my days as a Student Member at Purdue University. My most memorable SAE event was when General Motors sponsored a chartered flight for our student section to visit the Pontiac Fiero plant near Detroit. We enjoyed an in depth tour and explanation of their entire plant. Currently I particularly value the professional networking and leadership events, such as our Career Development and Leadership event that is held annually with SWE.

We look forward to meeting all of you at our upcoming 2006-2007 season events this spring.

Please feel free to let us know how we can better serve you, our members, from a communications point of view! Contact us at CIS_SAE_Communications@yahoo.com.

Wishing you a happy and productive new year in 2007!

Steve Hofstetter
CIS-SAE Communications Chair

ICC Design Competition

The Central Illinois Section of the Society of Automotive Engineers (CIS-SAE) is the sponsor of the annual Illinois Central College student design competition. The 2006 design competition that was held on November 17th was a resounding success! Over 50 students organized into 18 teams with the challenge to design and build a trebuchet to throw a tennis ball. The rules required that the designs be original, weigh less than 10 pounds, cost less than \$50, and be only gravity powered. The students competed to determine who's machine could throw the tennis ball the farthest. The competition was preceded by speeches given by Matt Rampenthal, Chair of the CIS, and Tom McClure, practicing engineer and alumnus of ICC. Matt talked about the history and purpose of SAE in addition to the importance of joining SAE as a professional organization. Tom spoke about his experiences as an engineer and about opportunities in industry for young engineers. Of the 18 trebuchets competing, the top three throws were 22.2 meters, 20.4 meters, and 20.3 meters that were thrown by the "Project R Force", "3 Wise Guys", and "AfraCanadians" teams, respectively. The "AfraCanadians" also won the best design category for the simplicity, repeatability, and effectiveness of their design. Although it was not planned, there was also an honorable mention in the design category; team "P.S.P." received the honorable mention for their design manifesting a comprehensive technical understanding of the problem and extensive research. After the competition, there was an awards ceremony where cash prizes of \$125, \$75, and \$50 given for first, second, and third farthest throws, and \$50 for the best designed category were given to the winners. Thanks to the competitors and congratulations to the winners! We anticipate many young engineers from this group. We look forward to doing this again next year!

