



February 15, 2004

Volume 1, Issue 1

Students for the Exploration and Development of Space



NOVA

SEDs Meets, Forms New Executive Board

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November 18-19, 2003 was a momentous date in SEDS history. Fourteen students from four universities gathered to regroup and rebuild SEDS-USA. They were hosted by the American Astronautical Society during their national convention, "The Dream is Alive," in Texas. The students met and discussed plans to infuse SEDS with a new spirit.

The first meeting commenced with an inspirational word from Dr. Peter Diamandis, a SEDS charter member and MIT alumnus who happened to be presenting at the AAS conference. Chapter reports followed, during



First SEDS Executive Board meeting in Houston, Texas

which chapters were given time to present their activities and programs. Reports were received from Embry-Riddle Aeronautical University (Daytona Beach Campus), the University of Illinois, the University of Minnesota, and Massachusetts Institute of Technology. This time concluded with a brainstorming session on individ-

ual chapter issues, everyone offering opinions and working together.

Session Two was centered on the national organization. The Constitution and Bylaws were reviewed, goals were set, and general elections were held (Be sure to check out the Letter from the Chairman at the bottom of this page and the Executive Board Biographies inside!).

The conference ended with a celebratory dinner at a local Mexican restaurant and a trip to Johnson Space Center in Houston.

Special points of interest:

- March 16-17: American Astronautical Society 42nd Goddard Memorial Symposium—Greenbelt, Maryland
- April 15: Submission Deadline for next edition of Nova
- May 27-31: International Space Development Conference—Oklahoma City

Letter from the Chairman, Josh Neubert, MIT

Greetings to you all. I'm very excited at the prospect of serving as Chairman of SEDS-USA. I'd like to give you some background on my SEDS experience. I am currently a Masters student in Earth, Atmospheric and Planetary Science at MIT. I also received my bachelors degree from the same department. Early in my freshman year of college I joined the MIT chapter of SEDS and quickly became involved as

the technical projects chair. Throughout my undergraduate years I have been very active in pursuing space education and research projects for SEDS at MIT. My major interests in space are lunar exploration and development. In my junior year I began working with the national SEDS executive as the Director of Finances. Since that time I have been very interested in working with the SEDS-USA structure and

pushing for more activity at the national level. At our November 2003 meeting at the AAS convention I took the position of chair of SEDS-USA and have been working to advance the organization since then. The major activities that I have been working on for SEDS-USA is getting benefits for our members, such as conference attendance, scholarships, and research funds. My major goal is to see

Meet Your Executive Board

Chairman: Joshua Neubert
 University: Massachusetts Institute of Technology
 Degree Pursuing: M.S. Earth, Atmosphere, and Planetary Science
 Years of SEDS Experience: 6 yrs in various National positions
 Email: neubjr@mit.edu



Director of Chapter Affairs:
 Alex Rechenmacher
 University: University of Illinois
 Degree Pursuing: B.S. Aerospace Engineering
 Years of SEDS Experience: 1
 Email: rechenma@uiuc.edu



Director of Publications: Shannon Flanagan
 University: Embry-Riddle Aeronautical University
 Degree Pursuing: B.S. Engineering Physics
 Years of SEDS Experience: 4
 Email: flanagsh@erau.edu

Director of Chapter Expansion: Andrew Hanson
 University: Embry-Riddle Aeronautical University
 Degree Pursuing: B.S. Aerospace Engineering
 Years of SEDS Experience: 2
 Email: Shaddap8@aol.com



Webmaster: Kevin Welch
 University: University of Illinois
 Degree Pursuing: M.S. Aerospace Engineering
 Years of SEDS Experience: 1
 Email: kdwelch@uiuc.edu



"Our continuing journeys into space will pose countless challenges. Yet we will embark on these missions with confidence, because we have chosen exactly the right people to do the job."

- Vice-President Dick Cheney in a Speech at JPL, January 14, 2004



Director of Fundraising: Kirk Kittell
 University: University of Illinois
 Degree Pursuing: M.S. Aerospace Engineering
 Years of SEDS Experience: 1
 Email: kittell@uiuc.edu



Director of Alumni Relations:
 Boris Kaganovich
 University: University of Minnesota
 Degree Pursuing:
 Years of SEDS Experience:
 Email:
 b.kaganovich@comcast.net



Chapter Reports

University of Arizona— Joshua Nelson

The University of Arizona SEDS chapter is currently involved in 3 main projects. [1] We are currently building a 18" dobsonian telescope, ("SEDSSCOPE") with which we will travel to local star parties and Astronomy outreach events. [2] Our Alumni have left us a High Altitude Rocket project which we are going to launch a series of smaller rockets to gain experience before finally launching a high altitude rocket with camera and GPS altimeter. [3] Our Webmaster is currently heading up a project called SEARCH, Student Endeavor Attempting to Recycle Computer Hardware. This project takes surplus computers and puts them to work processing SETI @ home units.

Embry-Riddle Aero- nautical University - Nate Potter

ERFSEDS has created a program called "Icarus," in which we plan to design, construct and launch a two stage solid propelled sounding rocket for an experimental purpose to a minimum height of 100 kilometers with a minimum payload of two kilograms, no later than the spring of 2005. We will be the first student group to attempt such an altitude. Icarus is currently in its preliminary testing and funding stages with help from the United Space Alliance, Jamstars and Indiana Institute of Technology (IIT) who is designing a custom payload to fit into Icarus. Additionally, the chapter is involved in several other events such as star parties and KSC trips. Check us out at:

www.erfseds.cjb.net.

University of Illinois— Kirk Kittell

The Illinois Space Society was established at the University of Illinois at Urbana-Champaign in September 2003 by Kirk Kittell and Derek Meyer. Last semester, ISS hosted Gregg Maryniak, Executive Director of the X PRIZE Foundation, as a guest speaker. This semester our major events include preparations for UI's Engineering Open House (EOH) as well as volunteer work at a local grade school for Space Day on May 6. At EOH, we are displaying a half-scale Mars Exploration Rover model, a space simulation game similar to Mission: Space at Disneyworld), and information about SEDS, propulsion, and the X PRIZE. Visit our web page:

<http://www.ae.uiuc.edu/iss>

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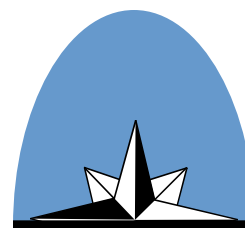
From the Director of Fundraising—Kirk Kittell (University of Illinois)

As the SEDS Director of Fundraising, it is my job to ensure the financial well-being of the SEDS national organization. This won't just benefit the folks on the national board; it will mostly benefit all of the students in the chapters. Some of the ideas that we are planning to fund are scholarships, research assistantships, and

national competitions. We will also be offering 4-\$150 matching grants to members to attend the International Space Development Conference in May. More information on that is to follow. Through corporate and individual donations, I hope to do my part to make SEDS a strong nationwide organization and to help all of us se-

cure a future in space exploration.

One of my goals for this semester is to have some SEDS merchandise available. That means shirts, stickers, pins, and coffee mugs with SEDS written all over them. Some of my ideas are posted at <http://www.ae.uiuc.edu/iss/se> ds.



"Mankind is drawn to the heavens for the same reason we were once drawn into unknown lands and across the open sea. We choose to explore space because doing so improves our lives, and lifts our national spirit. So let us continue the journey."

- President George W. Bush announcing a new Space Initiative January 14, 2004



Students for the Exploration and Development of Space

A Brief History

SEDs-USA: Students for the Exploration and Development of Space
MIT Room W20-445
77 Massachusetts Ave
Cambridge, MA 02139
United States

Temporary Webpage:
<http://seds.org>

Students for the Exploration and Development of Space, “SEDs,” is an independent, student-based organization which promotes the exploration and development of space. SEDs pursues this mission by educating people about the benefits of space, by supporting a network of interested students, by providing an opportunity for members to develop their leadership skills, and inspiring people through our involvement in space-related projects. SEDs believes in a space-faring civilization and that focusing the enthusiasm of young people is the key to our future in space.

SEDs was founded in 1980 at MIT and Princeton and consists of an international group of high school, undergraduate, and graduate students from a diverse range of educational backgrounds who are working to promote space as a whole. SEDs is a chapter based organization with chapters throughout the United States, Canada, United Kingdom, Asia, Latin America, and the Middle East. The permanent National Headquarters for SEDs-USA resides



Spotlight on Alumni: Dr. Peter Diamandis, Founder of SEDs

In 1980, Dr. Peter Diamandis founded a small student organization at MIT that has since become the world’s largest student pro-space organization, SEDs. He has since gone on to co-Found the International Space University where he served as the University’s first Program Director and Trustee.

Dr. Diamandis is most notably the Founder, Chairman, and President of X-Prize, a non-profit organization promoting the formation of a space-tourism industry through a

\$10,000,000 prize.

Diamandis also serves as the Chairman of Zero Gravity Corporation, a commercial space company developing private, FAA-certified parabolic flight utilizing Boeing 727-200 aircraft. Additionally, Diamandis was a co-founder of Space Adventures.

Dr. Diamandis received his undergraduate and graduate degrees in aerospace engineering from the Massachusetts Institute of Technology (MIT) and his M.D. from Harvard Medical School. He has conducted research in a num-

ber of fields, including molecular genetics, space medicine, and launch vehicle design.

Dr. Diamandis has received a number of awards including MIT’s Kresge Award, the 1986 Space Industrialization Fellowship, the 1988 Aviation Week & Space Technology Laurel, the 1993 Space Frontier Pioneer Award, and the Russian 1995 K. E. Tsiolkovsky Award.

Dr. Diamandis is perhaps our most prominent alumnus and an excellent example of the Aerospace excellence SEDs students



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