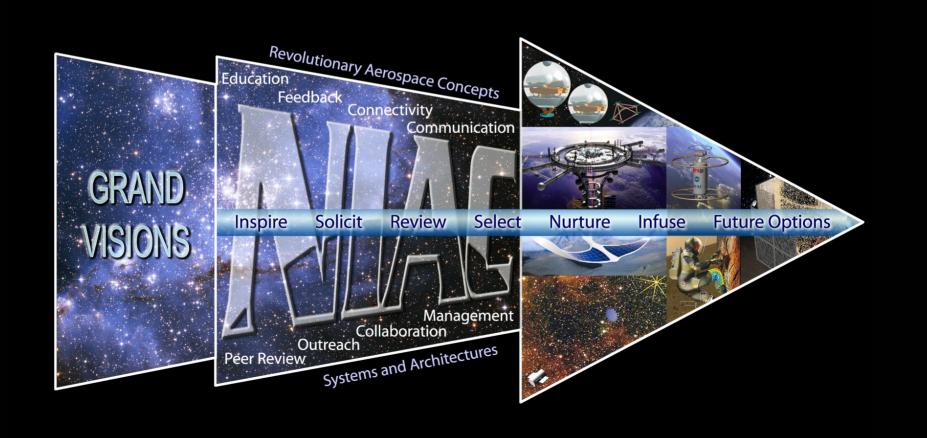


NIAC's Process

Inspire the imagination, reinforce a passion for knowledge and energize the creative spirit

Provide a pathway for revolutionary discoveries by innovators with the ability for non-linear, orthogonal creativity





Publicity

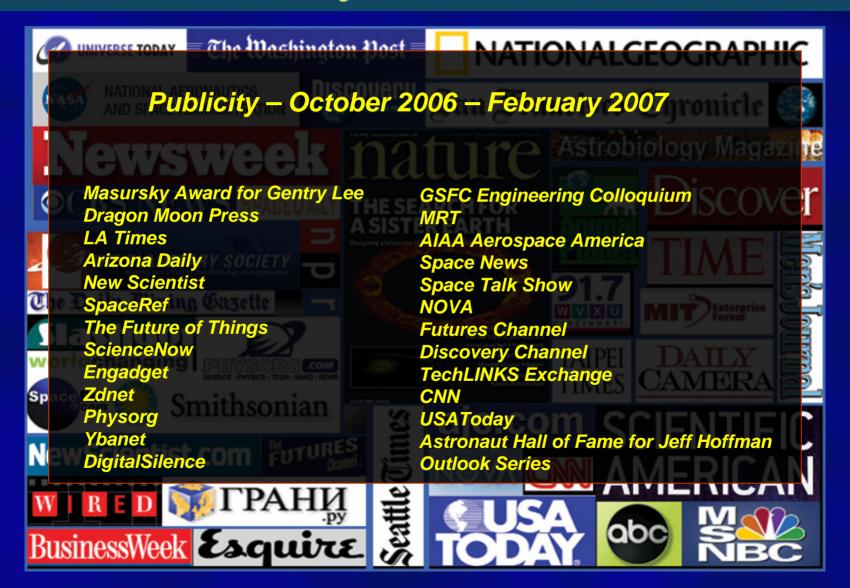
Stimulates Inspiration for Revolutionary Breakthroughs and Vigorous Scientific Review





Publicity

Stimulates Inspiration for Revolutionary Breakthroughs and Vigorous Scientific Review





Publicity

Stimulates Inspiration for Revolutionary Breakthroughs and Vigorous Scientific Review



Successful transition of NIAC concepts into NASA, DARPA, NRO and Private Industry (Examples)

- Additional funding received
- Included in long range plans
- Intellectually accepted subject of internal studies

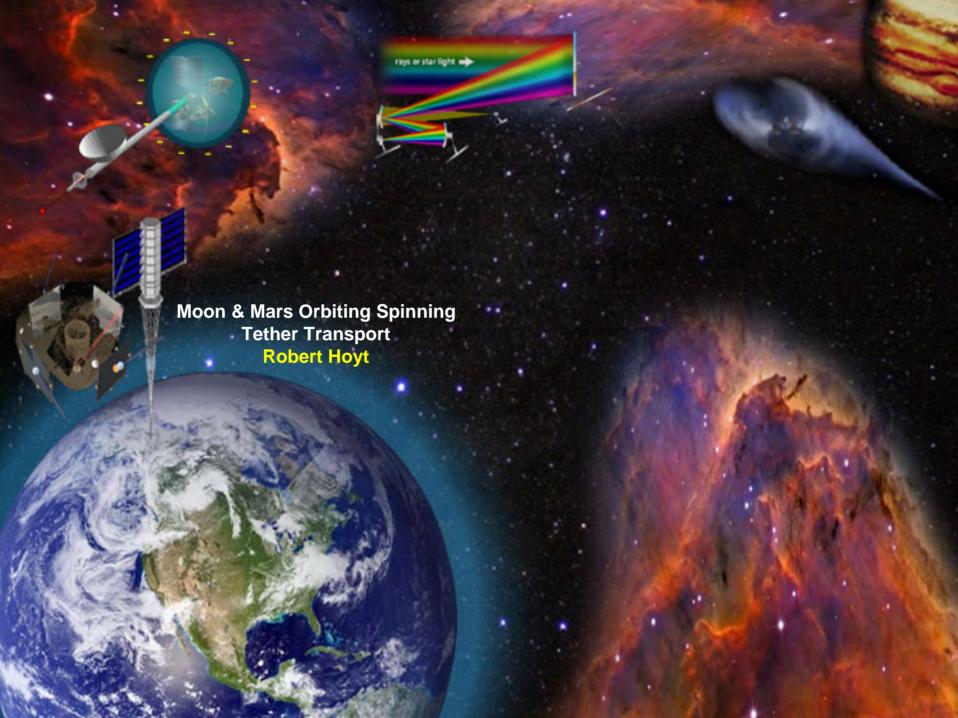
Vision and creativity,
plus a passion for what you do,
can make a difference

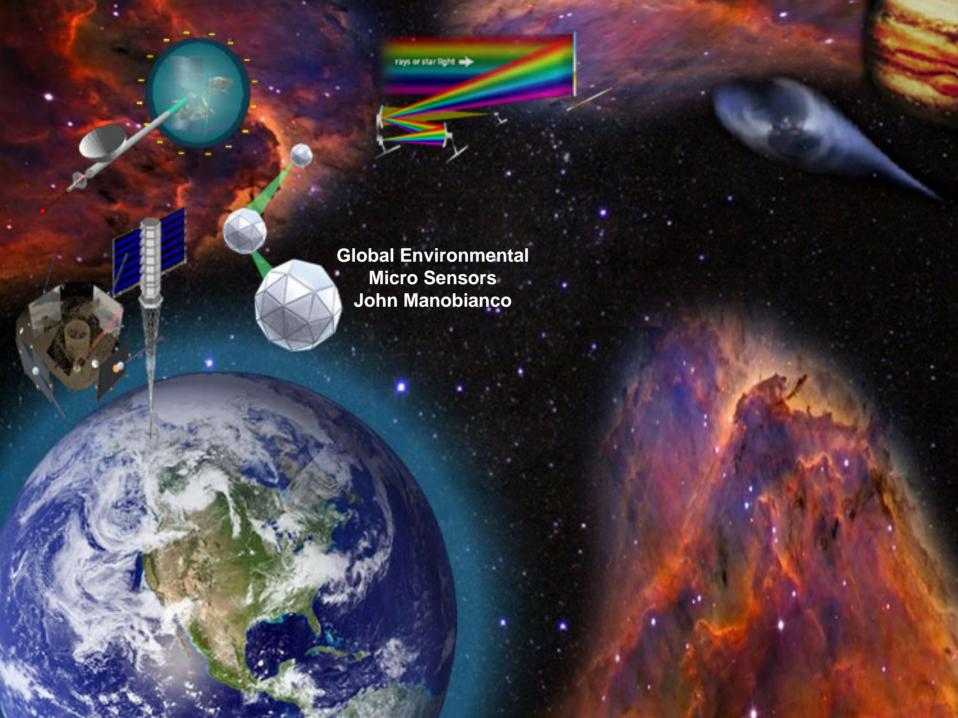






























NIAC Student Fellows Prize (Funded by USRA)



NASA Institute for Advanced Concepts STUDENT FELLOWS PRIZE

Call For Proposals

The NASA Institute for Advanced Concepts (NIAC) seeks to identify creative and innovative students who possess an extraordinary potential for developing advanced concepts in the fields of aeronautics, space and the sciences.

Each Student Fellow will receive a total of \$9,000 for the Academic year 2007-2008.

NIAC intends for these awards to benefit talented individuals who have shown extraordinary originality and dedication in their academic pursuits and a marked capacity for self-direction. We seek exceptional creativity, and the promise for important future advances based on a track record of significant accomplishment, and potential for the fellowship to facilitate subsequent creative work.

Eligibility

- Applicant must be in a U.S. institute of higher education
- Applicant must be eligible to work in the United States
- Applicant must apply no later than their junior year of college

For more details on the NIAC Student Fellows Prize and how to apply, go to www.niac.usra.edu/students/call.html.

Due Date: April 16, 2007

Minority, female and disadvantaged students are encouraged to respond to this Call For Proposals.









NIAC CP 07-02

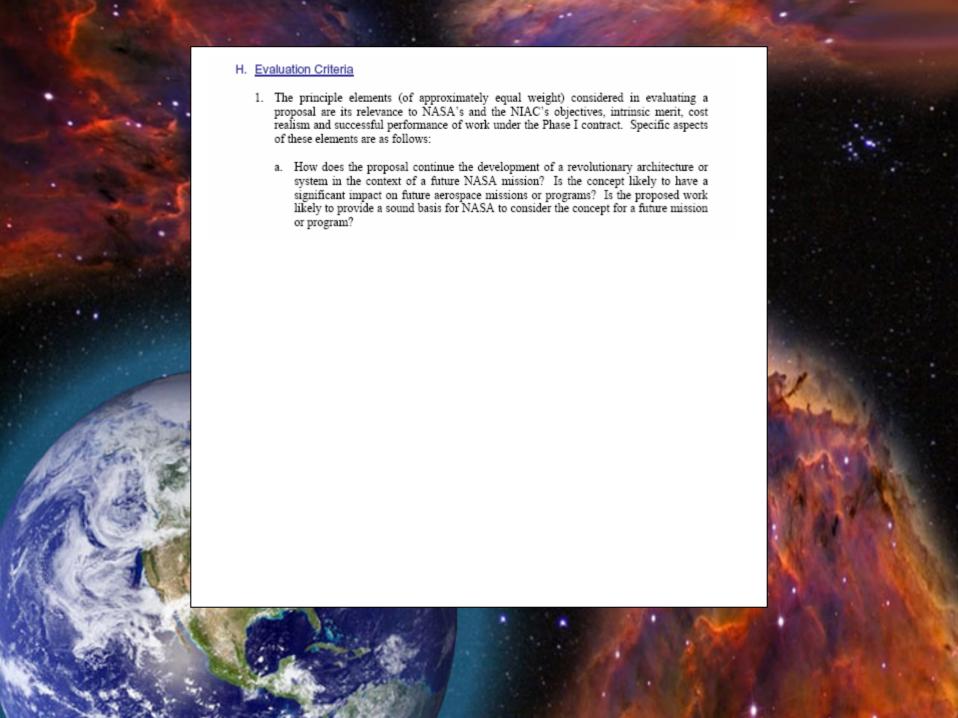
CALL FOR PROPOSALS

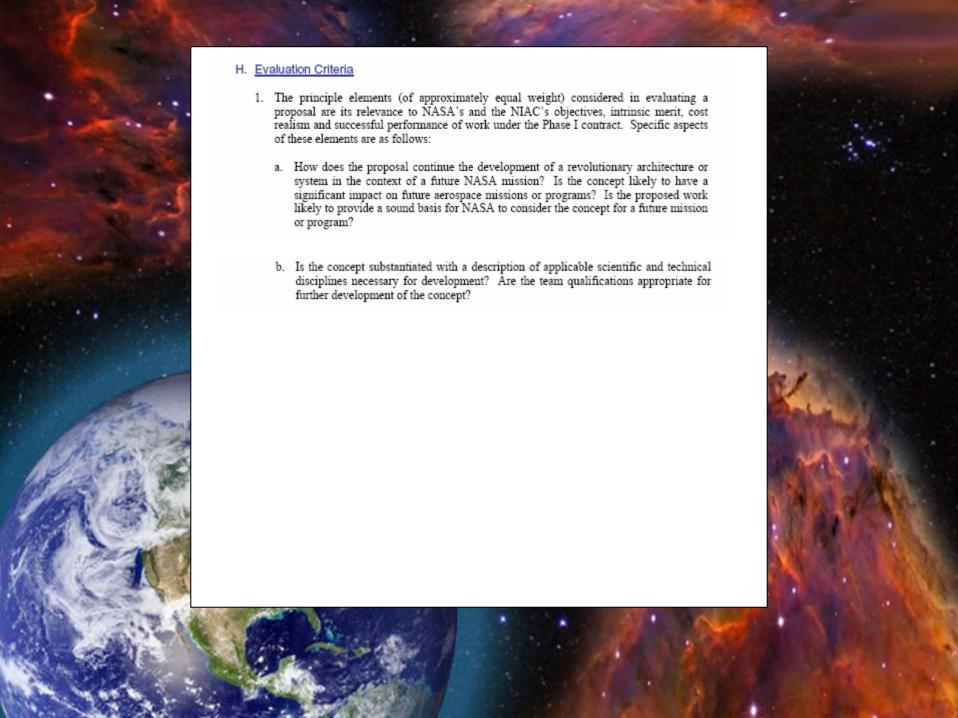
PHASE II ADVANCED AERONAUTICAL / SPACE CONCEPT STUDIES

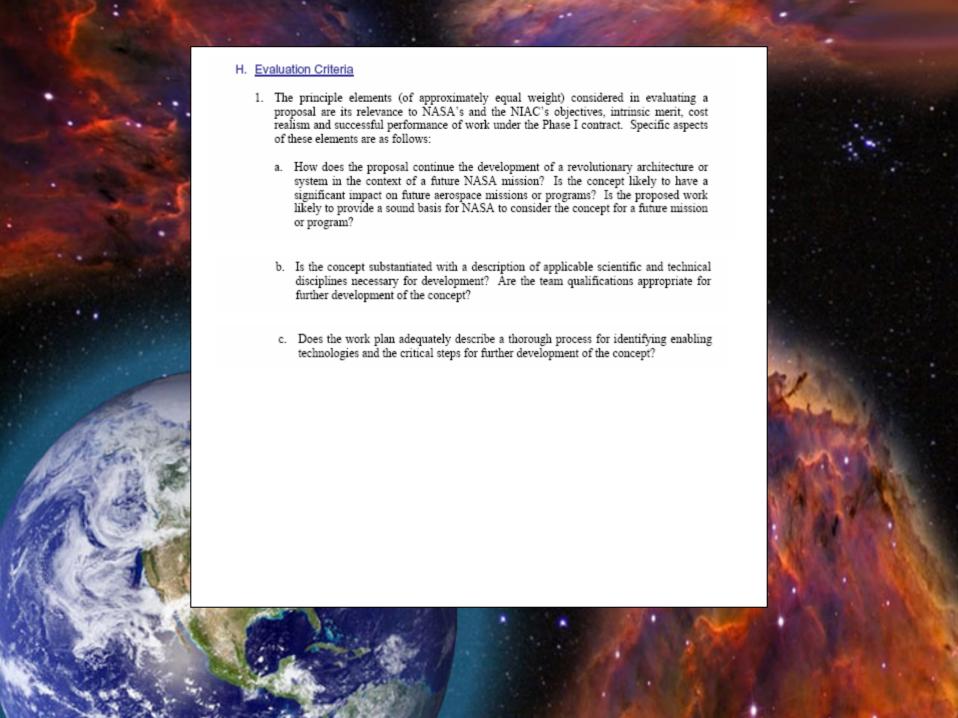
Proposals Due: May 6, 2007

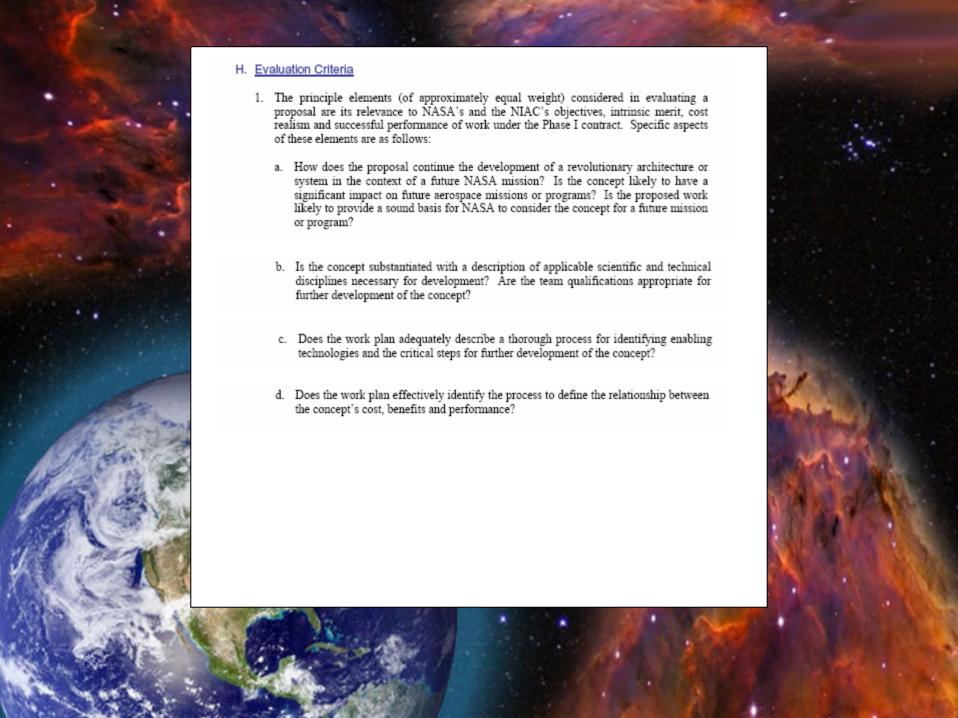


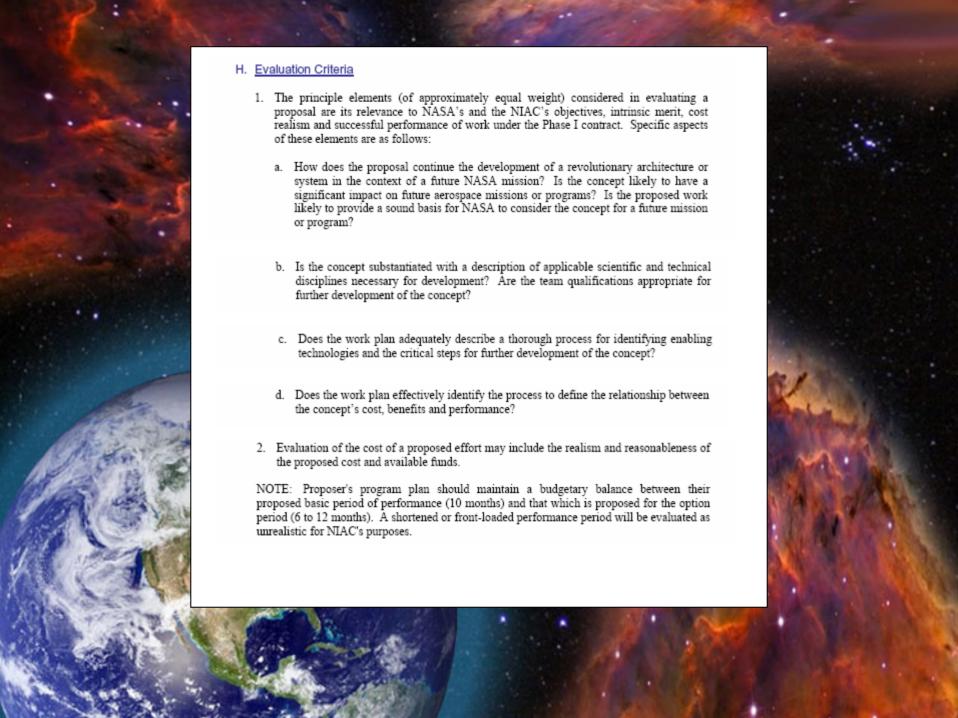


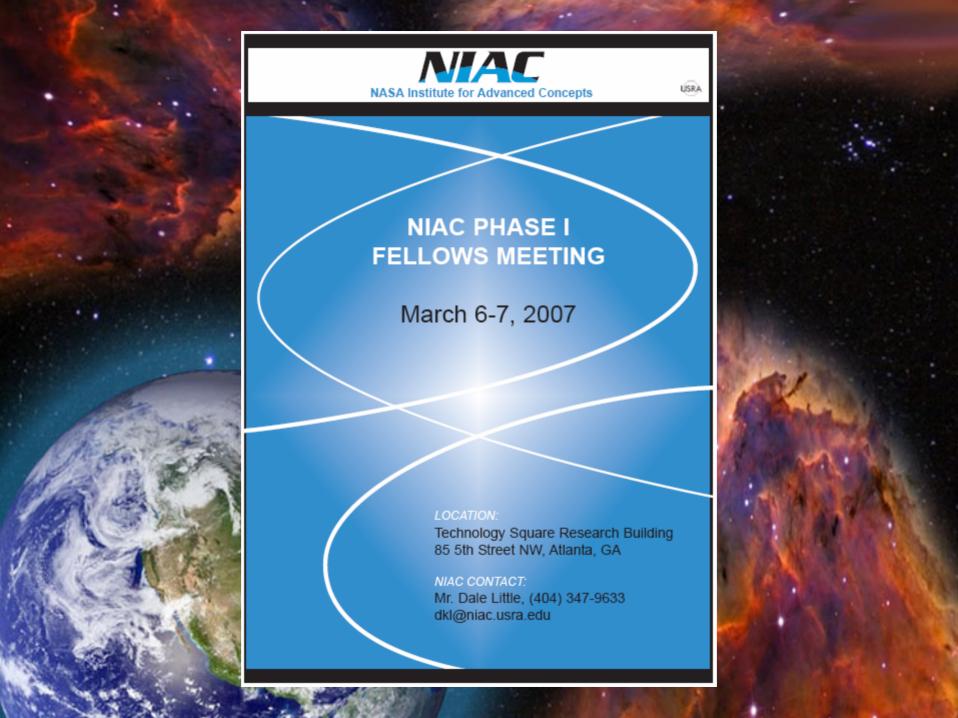














NIAC Phase I Fellows Meeting Agenda

Tuesday, March 6, 2007

8:00 AM -8:30 AM Registration / Continental Breakfast

8:30 AM -9:00 AM Welcome and Status of NIAC Activities

Robert A. Cassanova, NIAC Director

9:00 AM -10:20 AM NIAC Phase I Status Reports

(40 minutes) Plasma Magnetic Shield for Crew Exploration

John Slough, University of Washington

(40 minutes) Bio-electric Space Exploration

Matthew Silver, Intact Labs

10:20 AM -10:50 AM Break

10:50 AM-12:20 PM NIAC Phase I and Student Status Reports (continued)

(25 minutes) The Martian Bus Schedule: An Innovative Technique for Protecting Humans

on a Journey to Mars

Daniella Della-Guistina, University of Arizona

(40 minutes) Development of a Single-Fluid Consumable Infrastructure for Life

Support, Power, Propulsion, and thermal Control

David Akin, University of Maryland

(25 minutes) Evolution of a Scalable, Hovering Flapping Robot

Floris van Breugel, Cornell University

12:20 PM-1:30 PM Buffet Lunch

1:30 PM-2:30 PM Keynote Speaker : Dr. Paul Spudis

Johns Hopkins University Applied Physics Laboratory

2:30 PM-3:10 PM NIAC Phase I and Status Reports (continued)

(40 minutes) Reduction of Trapped Energetic Particle Fluxes in Earth and Jovian

Radiation Belts

Robert Hoyt, Tethers Unlimited

3:10 PM -3:40 PM Break

3:40 PM-4:45 PM NIAC Phase I and Student Status Reports (continued)

(25 minutes) START: Utilizing Near-Earth Asteroids with Tether Technologies

Jonathan Sharma, Georgia Institute of Technology

(40 minutes) In-Orbit Assembly of Modular Space Systems with Non-Contacting, Flux-

Pinned Interfaces, Mason Peck, Cornell University

4:45 PM-5:30 PM Discussion

6:00 PM-7:30 PM Reception to honor Robert Cassanova on his retirement

at the Georgia Tech Hotel & Conference Center.





NIAC Phase I Fellows Meeting Agenda

Wednesday, March 7, 2007

8:00AM - 8:30 AM Registration / Continental Breakfast

Welcome - Robert Cassanova, NIAC Director

8:30AM - 9:30AM Keynote Speaker : Dr. Ronald Turner

"Grand Challenges in Space Radiation Protection"

9:30 AM-10:30 AM Panel on Funding Opportunities Beyond NIAC

Moderator: Bob Scaringe- AVG Communications

Panelists: George Petracek- Atrium Capital, Rahul Saxena- Seraph Group

Paul Eremenko- Booz Allen Hamilton

10:30 AM -11:00 AM Break

11:00 AM-12:20 PM NIAC Phase I Status Reports

(40 minutes) Extreme eXPeditionary Architecture (EXPArch): Mobile, Adaptable Systems

for Space and Earth Exploration Guillermo Trotti, Trotti and Associates

(40 minutes) Self-Deployed Space or Planetary Habitats and Extremely Large Structures

Devon Crowe, PSI Corporation

12:20 PM-1:20 PM Buffet Lunch

1:20PM-3:05 PM NIAC Phase I Status Reports

(40 minutes) Primary Objective Grating Astronomical Telescope

Tom Ditto, DeWitt Brothers Tool Company

(25 minutes) Advanced Grazing Incidence Neutron Imaging System

J. Michael Burgess, University of Alabama, Huntsville

(40 minutes) Large Ultra-Lightweight Photonic Muscle Telescope

Joe Ritter, University of Hawaii

3:05 PM-3:35 PM Break

3:35 PM-5:20 PM NIAC Phase I and Student Status Reports

(40 minutes) Practicality of a Solar Shield in Space to Counter Global Warming

Roger Angel, University of Arizona

(25 minutes) The Road to Mars

Rigel Woida, University of Arizona

(40 minutes) Spacecraft Propulsion Utilizing Pondermotive Forces

George Williams, Ohio Aerospace Institute

5:20 PM-5:30 PM Open Discussion

5:30 PM Adjourn





Keynote Speakers



Dr. Paul Spudis
Johns Hopkins Applied Physics Lab

Tuesday, March 6 1:30PM



Dr. Ronald Turner ANSER, Analytic Services, Inc.

Wednesday, March 7 8:30PM

