

March 15-16, 2005 Technology Square Research Building

Atlanta, Georgia

85 5th Street NW

dkl@niac.usra.edu (404) 347-9633

Registration

Break

NIAC Contact: Dale Little





Welcome and Status of NIAC Activities Robert A. Cassanova, NIAC Director **Richard Wassersug** Keynote Speaker -

A Deep Field Infrared Observatory Near the Lunar Pole

NIAC Phase I Fellows Meeting

Tuesday, March 15, 2005

9:00am - 10:00am

10:00am - 10:30am

10:30am - 12:00pm

8:30am - 9:00am

Dalhousie University

Roger Angel, University of Arizona

NIAC Phase I Status Reports

(45 minutes)

(45 minutes)

New World Imager Webster Cash, University of Colorado

Buffet Lunch

12:00pm - 1:00pm

Keynote Speaker -Whatever Happened to the Space Age? Joel Achenbach **Washington Post**

Andrew Bingham, Clarkson University

Deployment of an Interstellar Electromagnetic Acceleration System

(30 minutes)

2:30pm - 3:00pm

3:00pm - 5:15pm

(45 minutes)

(45 minutes)

2:00pm - 2:30pm

1:00pm -- 2:00pm

Break

NIAC Phase I Status Reports

NIAC Student Fellow Report

(45 minutes)

Charles Buhler, ASRC Aerospace Corporation Use of Superconducting Magnet Technology for Astronaut Radiation Protection

Jeffrey Hoffman and Peter Fisher, MIT

Robert Cassanova, NIAC Director

Keynote Speaker -

Break

Reception

Redesigning Living Organisms to Survive on Mars Wendy Boss, North Carolina State University

5:00pm - 6:30pm

NIAC Phase I Fellows Meeting Wednesday, March 16, 2005

Leo Christodoulou

Defense Advanced Projects Research Agency

Analysis of a Lunar Base Electrostatic Radiation Shield Concept

9:00am - 10:00am 10:00am - 10:30am

(45 minutes)

8:45am

NIAC Phase I Status Reports Lunar Space Elevators for Cislunar Space Development

Jerome Pearson, Star Technology & Research, Inc.

Magnetized Beamed Plasma Propulsion (MagBeam)

Robert Winglee, University of Washington

Exploration and Environmental Samplling

Rickey Morgan, Morgan Optics Corporation

(45 minutes)

12:00pm - 1:00pm

(45 minutes)

(45 minutes)

10:30am - 12:00pm

Buffet Lunch NIAC Phase I Status Reports

A Self-Sustaining, Boundary-Layer-Adapted System for Terrrain

Wide Bandwidth Deep Space Quantum Communications

1:00pm -- 2:30pm (45 minutes) Extremely Large Swarm Array of Picosats for Microwave/RF Earth Sensing, Radiometry & Mapping Ivan Bekey, Bekey Designs Incorporated

Craig Woolsey, Virginia Polytechnic Institute 2:30pm - 3:00pm **Break**

3:00pm - 5:15pm **NIAC Phase I Status Reports**

Power in Space Richard Fork, University of Alabama, Huntsville

Registration for NIAC Phase I Fellows Meeting

The workshop will be held on March 15-16, 2005 at the Technology Square Research Building in Atlanta, Georgia. A map to the meeting site and hotels is attached. Note that the Technology Square Research Building is adjacent to the building in which NIAC

Headquarters is located. In order to attend, NIAC must receive a completed registration form by March 8, 2005. There is no fee to attend the meeting but you

must register so that we will have an accurate count for meals and snacks.

Registration may be accomplished electronically (preferred), by mail or by fax. Please provide the following information to Dale Little at the email address below by March 8:

Registration

Send registration to:

Name Affiliation **Address**

Phone number Email address

General Information

dkl@niac.usra.edu (404) 347-9633 voice (404) 347-9638 fax

NIAC has obtained special lodging rates of \$113 per night plus taxes for meeting

March 16

Days attending the meeting: March 15

Dale Little

www.gatechhotel.com **Cut-Off Date for Reservations: February 14, 2005** Marriott Midtown Courtyard 1132 Techwood Drive Atlanta, Georgia 30318 404-607-1112 You are responsible for the cost of your room. Be sure to let the hotel know which nights you will be staying.

16th Street Q

(45 minutes) Efficient Direct Conversion of Sunlight to Coherent Light at High Average (45 minutes) Large-Product General-Purpose Design and Manufacturing Using Nanoscale Modules Chris Phoenix, Center for Responsible Nanotechnology 5:00pm - 6:30pm Adjourn



Lodging

attendees from the following hotels near the meeting site. When making your reservations, please indicate that you are attending the NIAC MEETING. Reservations based on availability Georgia Tech Hotel and Conference Center 800 Spring Street, NW Atlanta, Georgia 30308 404-347-9440

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Ponce de Leon Avenue

North Avenue

7th Street

6th Street

5th Street

4th Street

3rd Street

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Tamarind Restaurant

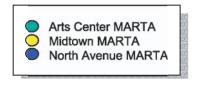
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NIAC

Centergy Building 75 5th Street NW

Atlanta, GA 30308

(404) 347-9638 (fax)

(404) 347-9633

Suite 318



NIAC Phase I Fellows Meeting

Tuesday, March 15, 2005

8:00am - 8:30am Registration

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

Robert A. Cassanova, NIAC Director

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(45 minutes) New World Imager

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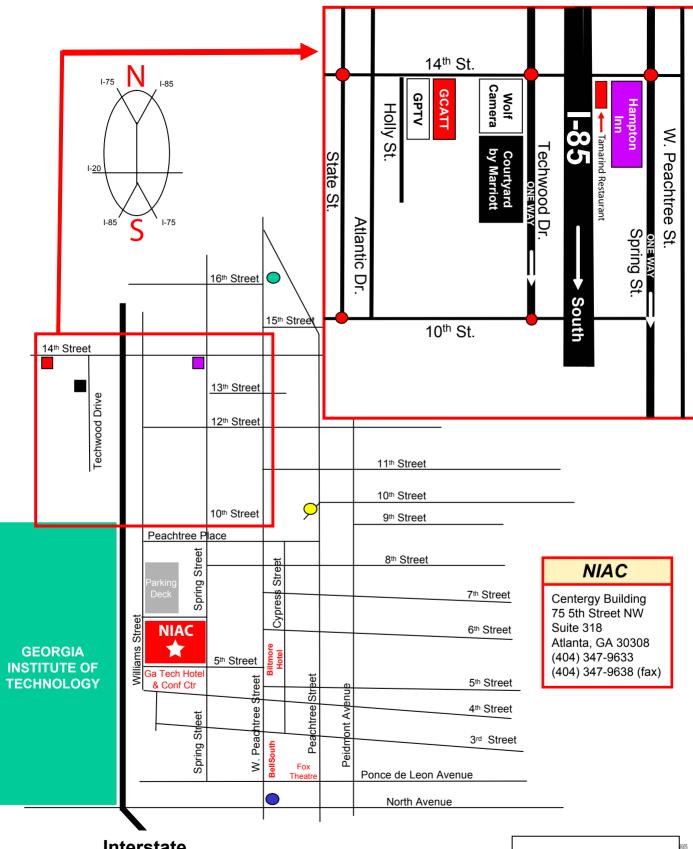
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