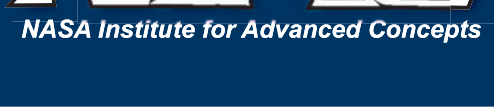


PHASE I - FELLOWS MEETING

March 15-16, 2005
Technology Square Research Building
85 5th Street NW
Atlanta, Georgia

NIAC Contact:
Dale Little
dkl@niac.usra.edu
(404) 347-9633



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
- 9:00am - 10:00am** Keynote Speaker - Richard Wassersug
Dalhousie University
- 10:00am - 10:30am** Break
- 10:30am - 12:00pm** NIAC Phase I Status Reports
- (45 minutes)** A Deep Field Infrared Observatory Near the Lunar Pole
Roger Angel, University of Arizona
- (45 minutes)** New World Imager
Webster Cash, University of Colorado
- 12:00pm - 1:00pm** Buffet Lunch
- 1:00pm - 2:00pm** Keynote Speaker - **Whatever Happened to the Space Age?**
Joel Achenbach
Washington Post
- 2:00pm - 2:30pm** NIAC Student Fellow Report
- (30 minutes)** Deployment of an Interstellar Electromagnetic Acceleration System
Andrew Bingham, Clarkson University
- 2:30pm - 3:00pm** Break
- 3:00pm - 5:15pm** NIAC Phase I Status Reports
- (45 minutes)** Redesigning Living Organisms to Survive on Mars
Wendy Boss, North Carolina State University
- (45 minutes)** Analysis of a Lunar Base Electrostatic Radiation Shield Concept
Charles Buhler, ASRC Aerospace Corporation
- (45 minutes)** Use of Superconducting Magnet Technology for Astronaut Radiation Protection
Jeffrey Hoffman and Peter Fisher, MIT
- 5:00pm - 6:30pm** Reception



NIAC Phase I Fellows Meeting Wednesday, March 16, 2005

- 8:45am** Welcome
Robert Cassanova, NIAC Director
- 9:00am - 10:00am** Keynote Speaker - Leo Christodoulou
Defense Advanced Projects Research Agency
- 10:00am - 10:30am** Break
- 10:30am - 12:00pm** NIAC Phase I Status Reports
- (45 minutes)** Lunar Space Elevators for Cislunar Space Development
Jerome Pearson, Star Technology & Research, Inc.
- (45 minutes)** Magnetized Beamed Plasma Propulsion (MagBeam)
Robert Winglee, University of Washington
- 12:00pm - 1:00pm** Buffet Lunch
- 1:00pm - 2:30pm** NIAC Phase I Status Reports
- (45 minutes)** Extremely Large Swarm Array of Picosats for Microwave/RF Earth Sensing, Radiometry & Mapping
Ivan Bekey, Bekey Designs Incorporated
- (45 minutes)** A Self-Sustaining, Boundary-Layer-Adapted System for Terrain Exploration and Environmental Sampling
Craig Woolsey, Virginia Polytechnic Institute
- 2:30pm - 3:00pm** Break
- 3:00pm - 5:15pm** NIAC Phase I Status Reports
- (45 minutes)** Wide Bandwidth Deep Space Quantum Communications
Rickey Morgan, Morgan Optics Corporation
- (45 minutes)** Efficient Direct Conversion of Sunlight to Coherent Light at High Power in Space
Richard Fork, University of Alabama, Huntsville
- (45 minutes)** Large-Product General-Purpose Design and Manufacturing Using Nanoscale Modules
Chris Phoenix, Center for Responsible Nanotechnology
- 5:00pm - 6:30pm** Adjourn



Registration for NIAC Phase I Fellows Meeting

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Name _____
Affiliation _____
Address _____
Phone number _____
Email address _____
Days attending the meeting: March 15 ____ March 16 ____

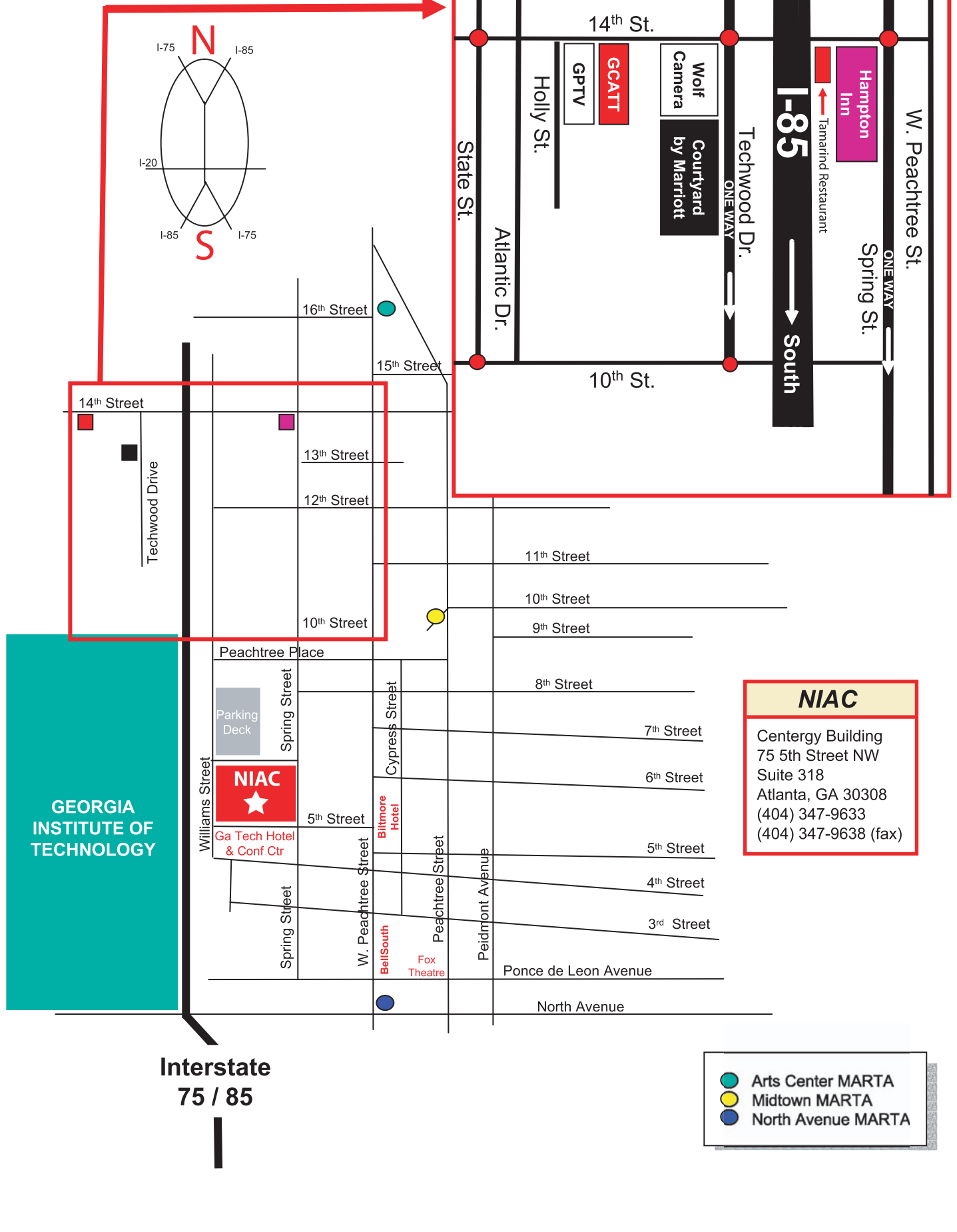
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(404) 347-9638 fax

Lodging
NIAC has obtained special lodging rates of \$113 per night plus taxes for meeting 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
www.gatechhotel.com

Cut-Off Date for Reservations: ASFRUARY 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.



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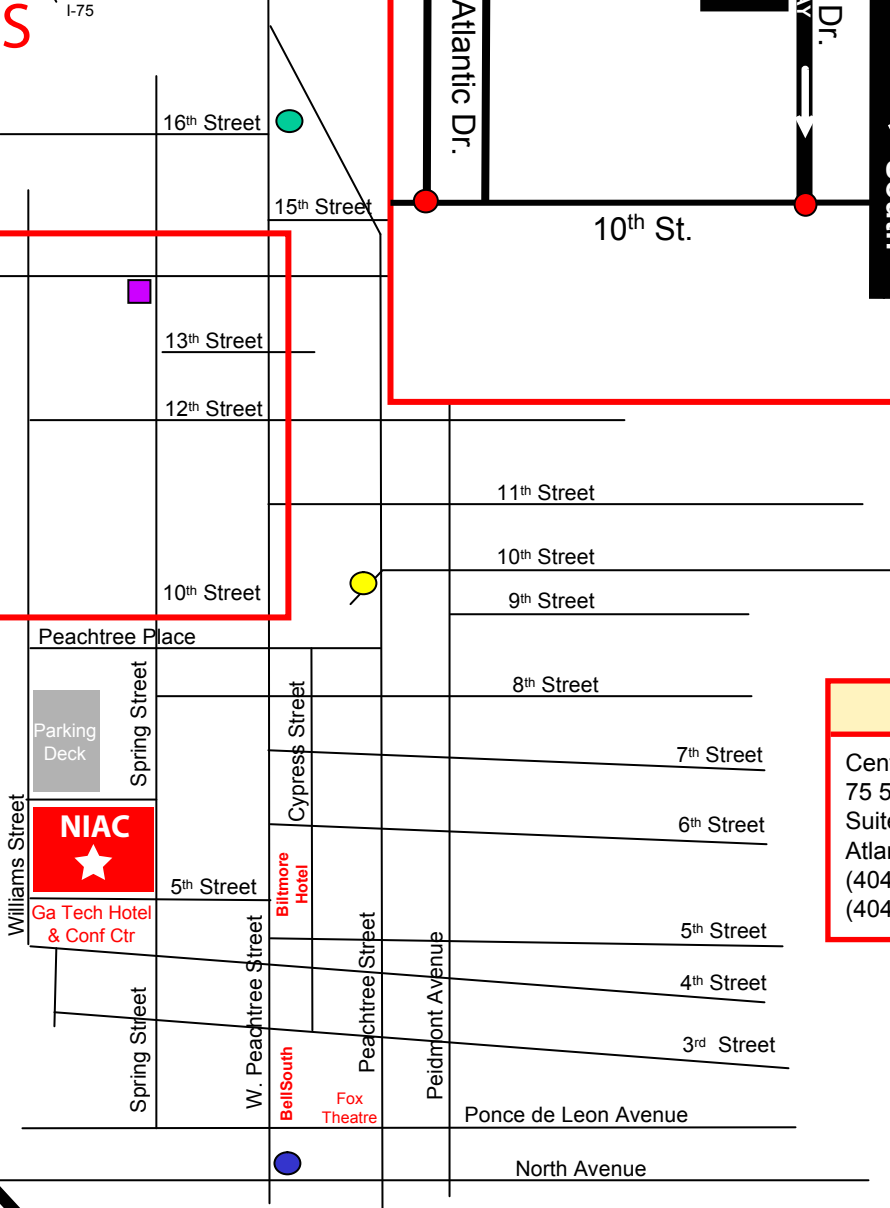
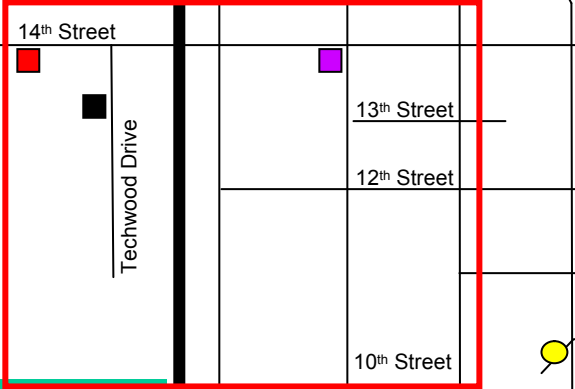
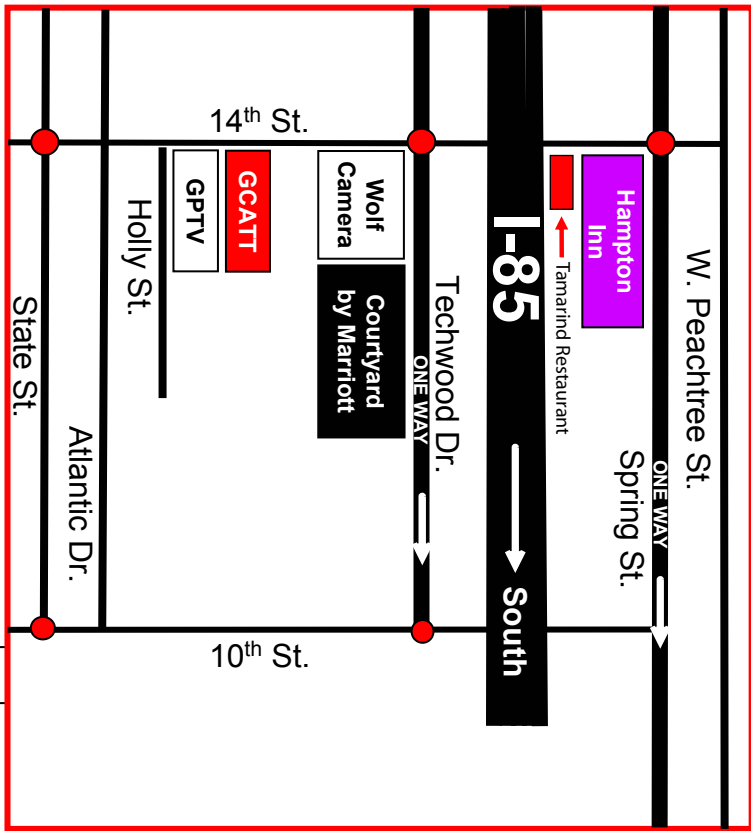
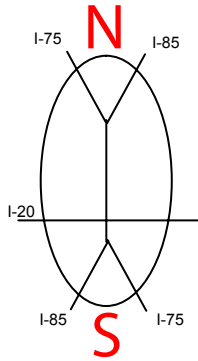
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 Atlanta, GA 30308
 (404) 347-9633
 (404) 347-9638 (fax)

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75 / 85**

- Arts Center MARTA
- Midtown MARTA
- North Avenue MARTA