



2017 BIG Idea Forum Agenda

Tuesday, February 14, 2017

7:00 – 8:30 PM **Team Check-in and Badging**
Embassy Suites, Lobby
1700 Coliseum Drive, Hampton, VA 23666

Wednesday, February 15, 2017

Building 2102, Reid Ballroom #1

9:15 – 9:45 AM **Judges' Meeting**

9:45 AM **Teams Meet at Badge & Pass Office**
Transport to Building 2102

10:00 – 10:05 AM **Welcome & Introductions**
Shelley Spears, NIA

10:05 – 10:25 AM **GCD Overview**
Mary E. Wusk, NASA LaRC

10:25 – 10:50 AM **Guest Presentation**
Dr. Keith Belvin, NASA LaRC
Title: In-Space Assembly, Manufacturing and Servicing: How to Make Exploration Affordable

Team Presentations

10:50 – 11:00 AM **Break**

11:00 – 11:45 AM **The University of Maryland**
Advisor: Dr. Dave Akin
Title: 200kW/500kW Solar-electric Modular Flexible Kinetic Escort (SMo-FLaKE)

11:45 – 12:30 PM **Georgia Institute of Technology with the University of Texas at Austin and New York University**
Advisor: Dr. Daniel Schrage
Title: An Elegant and Innovative Design for In-Space Assembly: Optimizing Modularity through an Umbrella Mechanism

Lunch

(12:45 – 2:00 PM)

National Institute of Aerospace
100 Exploration Way, Hampton, VA 23666, Room #101
Guest Presentation: Dr. Erik Komendera, NASA LaRC
Title: Autonomous Assembly of Space Structures by Teams of Robots: Recent Research at Langley

Wednesday, continued...

Building 2102, Reid Ballroom #1

2:15 – 3:00 PM **The University of Colorado, Boulder**
Advisor: Dr. Brian Sanders
Title: Odysseus

3:00 – 3:45 PM **Tulane University**
Advisor: Dr. Timothy Schuler
Title: The Sunflower, A Modular and Hexagonally Symmetric SEP Cargo Transport Spacecraft

3:45 – 4:00 PM **Break**

4:00 – 4:45 PM **The University of Maryland**
Advisor: Dr. David Akin
Title: A Reusable Modular Solar Electric Propulsion Space Tug (SEP) to Transfer Payloads from Low Earth Orbit (LEO) to Lunar Distant Retrograde Orbit (LDRO)

4:45 – 5:00 PM **Group and Team Pictures**

5:00 – 7:00 PM **Dinner and Networking**
Corner Bistro
200 Fountains Lane
Poquoson, VA 23662

Thursday, February 16, 2017

8:30 – 11:00 AM **Judges' Deliberation**
Building 2102, Room 106

8:30 AM **Teams Meet at Badge & Pass Office**

8:45 – 11:45 PM **Tour of NASA Langley for Teams**

Lunch and Awards Ceremony

(12:00 – 1:30 PM)

National Institute of Aerospace
100 Exploration Way, Hampton, VA 23666, Room #101

1:30 PM **Safe Travels to the Teams!**

1:30 – 3:00 PM **Judges' Debrief**
NIA, Room 101

NASA Langley Research Center Tour

We will be taking a tour of the NASA Langley facilities on Thursday, so please feel free to bring a camera. You will be permitted to take pictures in most places. Please wear closed-toed shoes and long pants for the tour.