

## DARPA FRACTIONATED SPACECRAFT WORKSHOP

*Preliminary Agenda*  
*Last Revised 07/17/2006*

### Thursday, August 3

- 0900 – 1000 *Fractionated Systems: Vision & Objectives*, Dr. Owen Brown, DARPA/TTO  
1000 – 1115 *Value-Centric Design; Flexibility & Reliability Optimization*, Dr. Joseph Saleh, MIT  
1115 – 1200 *Relative Navigation & Control for Cluster Flying*, Dr. Fred Hadaegh, Caltech/JPL  
1200 – 1300 *Catered Lunch & Discussion*  
1300 – 1345 *Cluster Design & Error Effects Analysis*, Dr. Terry Alfried, Texas A&M  
1345 – 1430 *Data Transmission*, Dr. Patrick Stadter, JHU/APL  
1430 – 1515 *Data Routing & Transmission Protocols*, Dr. Lloyd Wood, Cisco Systems  
1515 – 1530 *Break*  
1530 – 1615 *Adaptive Distributed Computing*, Dr. Richard Golding, IBM Research  
1615 – 1700 *Power Transmission*, Dr. Dan Sievenpiper, HRL Laboratories  
1700 – 1730 *Electromagnetic Force & Torque Transmission*, Dr. David Miller, MIT  
1730 – 1800 *Electrostatic Force Transmission*, Dr. Hanspeter Schaub, Virginia Tech

### Friday, August 4

- 0900 – 0945 *Launch Options*, Thomas Maultsby, DARPA/VSO  
0945 – 1000 *Fractionated Missions & Payloads Intro*, Dr. Owen Brown, DARPA/TTO  
1000 – 1020 *Do All System Trades Lead to Fractionation?*, Dr. Larry Capots, Lockheed Martin  
1020 – 1040 *A Vision for Space Systems: A Fractionated Future*, Dr. Lisa Hill, Northrop Grumman  
1040 – 1100 *Break*  
1100 – 1120 *An Exercise in Spacecraft Fractionation*, Kevin Rooney, Boeing  
1120 – 1140 *Formation Flying Missions & Technologies*, Dr. Jesse Leitner, NASA/GSFC  
1140 – 1200 *Cooperative Spacecraft Performing In-Space Assembly*, Peter Will, USC/ISI  
1200 – 1220 *Critical Orbit Control Issues for Fractionated Spacecraft*, Joseph Mueller, PSS  
1220 – 1320 *Catered Lunch & Discussion*  
1320 – 1340 *Internet Technologies for Space Applications*, Dr. William Ivancic, NASA/GRC  
1340 – 1400 *Design Approaches for Massive Distributed Architectures*, George Economou, Akamai  
1400 – 1420 *A Vision for Global Services*, Jeff Thompson, Cisco Systems  
1420 – 1440 *Reconfigurable Electronics & Subsystem Interfaces*, Robert Parker, USC/ISI  
1440 – 1500 *Break*  
1500 – 1520 *In-Space Power Transfer - Bouncing the Light Fantastic!*, Andrew Turner, Loral  
1520 – 1540 *Powering SubSatellites By Laser*, Dr. Jordin Kare, Kare Technical Consulting  
1540 – 1600 *NASA's Mission Ctr. for Rapid Prototyping of Space Sys.*, Tom Flatley, NASA/GSFC  
1600 – 1630 *Wrap-Up and Path Forward*, Dr. Owen Brown, DARPA/TTO