

NASA ISS Research Academy and Pre-application Meeting
August 3-5, 2010
South Shore Harbour Resort & Conference Center
2500 South Shore Blvd.
League City, TX 77573

(Preliminary Agenda)

COURSE DESCRIPTION

The objectives of the NASA ISS Research Academy are:

1. To provide new principal investigators and payload developers an overview of the capabilities of the ISS for research and the unique advantages of ISS for doing groundbreaking research.
2. To educate the participants about available ISS research opportunities and the process to follow to apply for these opportunities from the following agencies: NASA, the National Institutes of Health (NIH) and the National Science Foundation (NSF).
3. To introduce new principal investigators to the various implementation partners that can provide hardware for different disciplines of research. The PI's and IP's will have time to evaluate the ability of different types of hardware to accomplish specific research objectives of the PI.
4. To provide new ISS Principal Investigators (PIs), Project Scientists (PSs) and Payload Developers (PDs) a good understanding of the NASA ISS Payload Planning, Integration and Operation Process.
5. To inform PIs, PSs and PDs about several services that the NASA ISS Payloads Office has available as part of the overall Payload Integration Process to help them during their payload integration process for a successful vehicle-payload integration and on-orbit operations.

THE FOLLOWING TOPICS WILL BE COVERED:

Day One: Microgravity Science day

- | | | | |
|----|---|-------------------|----------|
| 1. | ISS Payloads Office Overview | W. Rod Jones/JSC | 8:00 am |
| 2. | ISS On Orbit Facilities | J. Robinson/JSC | 8:15 am |
| 3. | Microgravity Influence on Biological Systems: | | |
| | a. Cellular Biology | N. Pellis/JSC | 9:00 am |
| | b. Macromolecular Crystal Growth | T. Miller/MSFC | 9:30 am |
| | Break | | 10:00 am |
| | c. Plants | H. Levine/KSC | 10:15 am |
| | d. Animals | TBD/ARC | 10:45 am |
| | e. Impacts on Humans | J. Charles/JSC | 11:15 am |
| | Lunch | | 11:45 am |
| 4. | Microgravity Influence on Physical Systems: | | |
| | a. Acceleration Environment and Effects | K. McPherson/GRC | 12:45 pm |
| | b. Fluid Physics | B. Motil/GRC | 1:15 pm |
| | c. Combustion Science | D. Urban/GRC | 1:45 pm |
| | d. Materials Science | F. Szofran/MSFC | 2:15 pm |
| | Break | | 2:45 pm |
| 5. | External Research | | |
| | a. Fundamental Physics | U. Israelsson/JPL | 3:00 pm |
| | b. Earth Science | TBD/ | 3:30 pm |
| | c. Astrophysics | TBD/ | 4:00 pm |
| | d. Heliophysics | TBD/ | 4:30 pm |
| | e. Space Science | TBD/ | 5:00 pm |

Day Two: Research Opportunities and Implementation Partners

6. ISS Research Opportunities: NASA		8:00 am
Break		9:30 am
7. ISS Research Opportunities: NIH		9:45 am
8. ISS Research Opportunities: NSF		11:00 am
Lunch		12:00 pm
9. ISS Research Opportunities Joint Discussion: NASA, NIH, NSF, and Attendees		1:00 pm
Break		1:45 pm
10. Implementation Partners: What and Who Are They and How They Can Help You		2:00 pm

Day Three: ISS Payload Integration Process Description, Process Improvement, and Best Practices (focus on NASA and Implementation Partners)

11. Research Planning Process	R. Lofton/JS	8:00 am
12. Mission Integration Process	G. Norris/JSC	8:30 am
13. Engineering Integration Process	M. Miller/JSC	9:00 am
14. Software Integration Process	A. Rice/MSFC	9:30 am
15. Lean Integration Process	A. Rice/MSFC	10:00 am
Break		10:30 am
16. Payload Safety Review Process	P. Mitchell/JSC	11:00 am
17. Payload Operations Integration Process	C. Price/MSFC	11:30 am
Lunch		12:00 pm
18. Launch and Landing Support	J. Wahlberg/KSC	1:00 pm
19. Real-Time Operations	C. Price/JSC	1:30 pm
20. Ground Facilities	A. Sledd/MSFC; T. St.Onge/GRC; M. Coats/SW	2:00 pm
Break		3:00 pm
21. Process Improvement Discussion and Best Practices		3:15 pm

REGISTRATION FEE:

There is no registration fee associated with this training. However, all expenses associated with travel, lodging, transportation and miscellaneous are the sole responsibility of the attendees. All training material will be provided in the form of a CD free of charge by NASA. For more information on this training, please click on the link below:

http://www.nasa.gov/mission_pages/station/science/nlab/nlab_conferences.html

HOW TO REGISTER:

To register for this training, please email your full name, title, affiliation, mailing address, telephone and fax numbers, email address and citizenship information to: jsc-iss-payloads-helpline@mail.nasa.gov. Please put "NASA ISS Research Academy and Pre-application Meeting" in the subject field of your email. No paper registration will be accepted. Each applicant will receive an acknowledgement within two (2) business days as confirmation. If no confirmation is received, please call Roger Weiss at 281-244-6187 or 281-244-7716.

CONTACT:

If you need more information or have questions regarding this training, please contact:

Marybeth Edeen
Manager, ISS National Laboratory Office
marybeth.a.edeen@nasa.gov
Phone: 281-483-9122

PROCEEDINGS:

All lecture material will be distributed to attendees on the first day of training in the form of CDs.

ACCOMMODATION:

Hotel information will be sent to all attendees three weeks prior to starting of training

MEETING LOCATION:

Meeting location map will be sent to all attendees along with hotels accommodation information.

IMPLEMENTATION PARTNERS INFORMATION:

Any Implementation Partner who desires to rent a room to set-up his/her own displays should contact Kim Keen at the address below. Please inform Kim that your activity is being held in concert with the NASA-JSC event taken place on August 3-5 in the Amphitheater room. This will help in getting you a room located in close proximity to the Amphitheater room. For room rental information, please contact:

Kim Keen
South Shore Harbour and Conference Center
281-334-1000 Ext.# 2024