

# NASA ISS Research Academy and Pre-application Meeting, August 3-5, 2010

South Shore Harbour Resort & Conference Ctr, 2500 South Shore Blvd., League City, TX 77573

**Main Meeting Room:** MARINA PLAZA BALLROOM  
**Overflow Meeting Room:** AMPHITHEATER  
**Implementation Partner Display Tables:** BACCARAT and STEUBEN Rooms  
**Onsite Lunch Option:** PARADISE REEF RESTAURANT

**Lunch Option:** Each day of the meeting there will be a 1-hour break for lunch. Attendees may dine off-site at a restaurant of their choosing or at the South Shore Harbour restaurant. The hotel's Paradise Reef Restaurant will offer a lunch buffet for \$12 per person (includes tax & gratuity), open from 11:00am to 2:00pm. **There will be a registration desk set up outside the Baccarat Room for attendees who wish to use that option daily to pay and pick up their lunch ticket, otherwise the regular price is about \$20.00 per person.** The menu changes daily. Sample: *Soup & Salad Bar, (3) Main Entrée Items, Variety of Vegetables, Starches & Side Items, Assorted Cakes & Pies, Iced Tea, Iced Water & Coffee.*

**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 NASA and the National Institutes of Health (NIH).
3. To introduce new principal investigators to the various implementation partners that can provide hardware for different disciplines of research. The principal investigators and implementation partners will have time to evaluate the ability of different types of hardware to accomplish specific research objectives of the principal investigator.
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.

## FINAL AGENDA (2-sided) – THE FOLLOWING TOPICS WILL BE COVERED:

### Day One: Microgravity Science

<b>Registration, Check-In, Presentation Materials CD Pickup</b>		<b>7:00 am</b>
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	8:45 am
b. Biological Macromolecular Crystal Growth	Y. Young / MSFC	9:15 am
<i>Break</i>		9:45 am
c. Plants	H. Levine / KSC	10:00 am
d. Animals – Vertebrate Models	R. Globus / ARC	10:30 am
e. Animals – Invertebrate Models	J. Cohen / ARC	11:00 am
f. Impacts on Humans	J. Charles / JSC	11:30 am
<i>Lunch</i>		12:00 pm
4. Microgravity Influence on Physical Systems:		
a. Acceleration Environment and Effects	B. Motil / GRC	1:00 pm
b. Fluid Physics	B. Motil / GRC	1:30 pm
c. Combustion Science	D. Urban / GRC	2:00 pm
d. Materials Science	S. Lehoczky / MSFC	2:30 pm
<i>Break</i>		3:00 pm
5. External Research		
a. Fundamental Physics	U. Israelsson / JPL	3:15 pm
b. Earth Science, Astrophysics and Space Science	B. Giles / HQ	3:45 pm
6. ISS Research Results Panel Discussion	All Presenters	4:30 pm
<i>Adjourn</i>		5:00 pm

## Day Two: Research Opportunities and Implementation Partners

<b>Registration, Check-In, Presentation Materials CD Pickup</b>		<b>7:00 am</b>
7. ISS Research Opportunities	B. Giles / HQ	8:00 am
• NASA Science Mission Directorate		
8. ISS Research Opportunities	M. Edeen / JSC	8:30 am
• ISS National Lab AO/BAA		
9. ISS Research Opportunities	J.M. Jessup and D.T. George / NIH	9:15 am
• NIH BioMed-ISS FOA		
<i>Break</i>		10:15 am
10. ISS Research Opportunities	NASA, NIH, and Attendees	10:30 am
Joint Discussion		
<i>Lunch</i>		12:00 pm
11. Implementation Partners:		1:00 pm
What and Who Are They and How They Can Help You		
a. Teledyne Brown	Carmine Bailey	1:00 pm
b. United Space Alliance	John Selmarten	1:15 pm
c. Tec-Masters	Andrew Tygielski	1:30 pm
d. CubeLab	Jason Rexroat	1:45 pm
e. Boeing	Amanda Rice	2:00 pm
f. Techshot	Rich Boling	2:15 pm
g. Orbitec	Robert Richter	2:30 pm
h. Astrium	Ulrich Kuebler	2:45 pm
i. Astrium	Ron Dunklee	2:55 pm
j. ARC	Cecilia Wigley	3:00 pm
k. Wyle	Scott Parazynski	3:15 pm
l. BioServe	Stefanie Countryman	3:30 pm
m. Cold Stowage Resources (JSC)	Susan Hutchison	3:45 pm
n. UAB	Lee Moradi	4:00 pm
o. Bionetics	David Reed	4:15 pm
p. Hamilton Sundstrand	Cheng-Yi Lu	4:30 pm
q. A-SCC	Beatriz Kelly-Serrato	4:45 pm
r. SpaceX	Erin Beck	5:00 pm
s. Jenkinson Enterprises	Glenn Jenkinson	8:00am next day
<i>Adjourn</i>		5:15 pm

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

<b>Registration, Check-In, Presentation Materials CD Pickup</b>		<b>7:00 am</b>
12. Research Planning Process	R. Lofton / JSC	8:00 am
13. Mission Integration Process	G. Norris / JSC	8:30 am
14. Engineering Integration Process	M. Miller / JSC	9:00 am
15. Software Integration Process	A. Rice / MSFC	9:30 am
16. Lean Integration Process	A. Rice / MSFC	10:00 am
<i>Break</i>		10:30 am
17. Payload Safety Review Process	T. Wong / JSC	10:45 am
18. Payload Operations Integration Process	C. Price / MSFC	11:15 am
<i>Lunch</i>		12:00 pm
19. Launch and Landing Support	J. Wahlberg / KSC	1:00 pm
20. Real-Time Operations	C. Price / JSC	1:30 pm
21. Ground Facilities		
a. GRC Facilities	B. Motil / GRC	2:00 pm
b. MSFC Facilities	A. Sledd / MSFC	2:20 pm
c. MSFC Facilities	A. Rice / MSFC	2:40 pm
<i>Break</i>		3:00 pm
22. Process Improvement Discussion and Best Practices ( <i>by invitation only</i> )		3:15 pm
<i>Adjourn</i>		5:00 pm

# MAP of South Shore Harbour Resort & Conference Center 2500 South Shore Blvd., League City, TX 77573

## *Pertinent Area Locations for NASA ISS Research Academy and Pre-application Meeting*

