18th Annual Space Exploration Educators Conference

February 2-4, 2012

EXPLORING NEW HORIZONS

General Information
Since before the emergence of the first single-celled organisms in primordial seas, the Moon has illuminated the night sky. The Moon holds a strong cultural connection to all of us, at once our nearest neighbor and far enough away so that landing on its surface represented the pinnacle of human technical achievement. Study of the Moon informs our understanding of how the rocky planets, including Earth, formed and evolved. In addition, study of the Moon represents a remarkable opportunity in STEM education. NASA’s Gravity Recovery and Interior Laboratory (GRAIL) mission has these dual aims. This presentation will discuss the basics of lunar science in the context of GRAIL, a dual-spacecraft mission that will probe the lunar interior from crust to core. Highlighted will be GRAIL’s MoonKAM, developed by Sally Ride Science, the first camera experiment on a planetary mission devoted solely to education and outreach.

Motivational speaker Gene Kranz was the leader of the "Tiger Team" of NASA flight directors who guided the crippled Apollo 13 spacecraft safely back to Earth. His role in the crisis now legendary, Kranz was made famous by his oft-quoted phrase, "Failure is not an option." Following the inspiring success of the Apollo 13 mission, Gene Kranz was awarded the Presidential Medal of Freedom for his leadership, heroism, and steely resolve. In Ron Howard's epic film, Apollo 13, he was portrayed by actor Ed Harris. "Failure is not an option," the motto that carried him through the Apollo 13 crisis, is a major theme of Gene Kranz's presentation. An inspiring business speaker, Kranz speaks with passion and pride when sharing stories of his NASA mission teams. He explains that his flight directors were young engineers and scientists, most of them in their 20s, having come to NASA fresh out of school with little work experience, but with abundant energy. He describes their will to succeed especially during that fateful mission. These teams worked hard, says Kranz, and made history in
**Wednesday, February 1, 2012**
3:00pm-6:00pm  Early Bird Check-in

**Thursday, February 2, 2012**
7:15am  Check-in Begins
7:30am  SEEC 101 (recommended for all new attendees to SEEC)
8:00 am  Welcome Address and Key Note Dr. Sally Ride and Dr. Maria Zuber
10:00am-11:30am  First Session
11:30am-12:30pm  Lunch
12:45pm-2:15pm  Second Session
2:45pm-4:15pm  Third Session
4:45 pm  Dismiss (Bus Run Begins)
5:30 pm  Those staying for Epicurean will watch a film In Northrop Grumman Theater.
6:30pm-9:30pm  “A Taste of Space” Epicurean Event (Bus will run hotel loops)

Sessions will take place at Space Center Houston, JSC Gilruth and other JSC areas *8 hours CEP Credit

**Friday, February 4, 2011**
7:15am  Check-in
8:00am-9:15am  Key Note - Astronaut, TBA
10:00am-11:30am  First Session
11:30am-12:30pm  Lunch
12:45pm-2:15pm  Second Session
2:45pm-4:15pm  Third Session
4:45 pm  Dismiss (Bus Run Begins)
7:15pm-11:45pm  Banquet

Sessions will take place at Space Center Houston, JSC Gilruth and other JSC areas *8 hours CEP Credit

**Saturday, February 5, 2011**
7:15am  Doors open
8:00am-9:30am  First Session
10:00am-11:30am  Second Session
11:30am-12:30pm  Lunch
12:45pm-2:15pm  Third Session
2:30pm-3:30pm  Key note - Gene Kranz
3:30pm-3:45pm  door prizes/Farewell
3:45 pm  Dismiss/Certificates in O-G Dinner
4:30pm  Conference Help Desk Closes
7:00pm  Space Center Houston Closes
SEEC buses will provide transportation to and from the hotels listed below. Space Center Houston is not responsible for making attendees’ hotel arrangements. Bus schedules will be posted online by January 2011 and in the hotel lobbies during conference.

**Hampton Inn NASA**
3000 NASA Parkway Seabrook, Texas 77586
281-532-9200
$89-$99

**Hilton NASA Clear Lake**
3000 NASA Parkway Houston, Texas 77058
281-333-9300 or 1-800-hiltons
$109

**Hilton Garden Inn NASA**
750 W. Texas Ave. Webster, Texas 77598
281-332-7953
$99

**Hampton Inn & Suites**
506 W. Bay Area Blvd. Webster, Texas 77598
281-332-7952
$99-$129

**Staybridge Suites**
281-338-0900
501 Texas Ave. Webster, Texas 77598
$109-$119

HOTEL NOT ON BUS ROUTE.

(They will transport to Space Center Houston and Hobby Airport)

**Marriott Springhill Suites**
1101 Magnolia Avenue Houston, Texas 77598
281-332-2999
$90
Do you need some space? Come experience space at the 18th Annual Space Exploration Educators Conference. You will go home recharged and ready to ignite the minds of your students!

- Network with the top scientists, engineers and educators from the United States, Canada, Japan and the United Kingdom.
- Hear Keynotes by Dr. Sally Ride and Dr. Maria Zuber (Grail Moon Mission), NASA Astronaut (TBA), Gene Kranz (Historic NASA flight director)
- Collect exciting materials to inspire your students and enhance your classroom.
- Hear from astronauts and engineers currently working on space exploration.
- Earn up to 24 Professional Development hours.
- Lunch provided all three days.
- Attend the “Taste of Space” Epicurean Evening on Thursday night. ($20 optional ticket)
- Enjoy the banquet on Friday night, where you will be served a delicious dinner and drinks. Then party the night away with MAX-Q all astronaut band. (Band subject to change based on Astronaut schedules)

Cancellations
Due to the popularity of SEEC, cancellations and no-shows will be charged the full registration fee. No refunds will be granted. However, registration may be transferred to a colleague.

Conference Products
The banquet is included for registered attendees, however, if you would like to bring a guest you will need to purchase an additional ticket. The tickets are available for $40 for the banquet. These tickets are on sale via the internet, registration form, or during the conference. Tickets will not be sold during the events.

Space Center Houston will have conference apparel available during the conference. Order forms will be available on the website one month prior to the conference. Be sure to check back to order your shirt!

Door Prizes & Certificates
Door Prizes
Following the last session on Saturday, please proceed to the Northrop Grumman Theater for closing Keynote and door prizes! You must be present to win.

Certificates
Professional Development certificates will be available immediately following the door prizes. However, we would like to hear from you first. Simply fill out the evaluation form found in your conference packet, then head to the Zero-G Diner to exchange the evaluation for your certificate. If you need to leave the conference early, please come to the Help Table to receive your certificate no later than 12:30. After 12:30 go to the certificate table in the Zero-G Diner.

Travel Notes
Space Center Houston is located between downtown Houston and Galveston. Take I-45 and exit NASA Parkway. The center is approximately three miles east of I-45. If flying, try to use Hobby Airport. A listing of conference hotels is provided on page 5.

When making your reservation, mention that you are a participant of SEEC at Space Center Houston. Many hotels offer discounts. If you are in need of shuttle services from the airport, please make inquiries at your hotel.

Space Center Houston is usually cool, so bring a sweater. We also recommend comfortable attire because you will be actively participating in breakout sessions. Closed toed shoes are required on all tours. The reception, “A Taste of Space” is casual attire. The Friday night banquet attire is Business formal to semi-formal. However, if you feel like

New to SEEC?
If this is your first SEEC conference, there is an introductory session just for you! Veteran SEEC attendees will go over everything you need to know about the session cards, locations, food, tours, etc. So arrive early on Thursday for a little SEEC 101!

When: Thursday, February 2nd, 7:30-8:00 AM
Where: Blast Off Theater
Presented by: Brian Ewenson and Brian Jackson
Exhibits

Friday February, 3rd from We will have a small exhibit area in Zero-g with representative from different areas of NASA. The will be there to share what is currently going on in the space program.

Exhibit Hours: 10:00AM– 3:00PM

Conference Dining and Social Events

*Additional Note*
Since many of our conference hotels offer breakfast, Space Center Houston will not be serving breakfast any morning of the conference. Starbucks will be open and space meal card can be used.

“Taste of Space” Epicurean Evening
Thursday, February 2, 2012
6:30pm-9:30pm at Space Center Houston

“Taste of Space” Epicurean Evening! The event will take place at Space Center Houston from 6:30 to 9:30 p.m. A special meet and greet area will be reserved for SEEC attendees only. Attendance is optional with a $20 fee.

This event is a cultural experience showcasing the Clear Lake Area's finest restaurants, food and beverages. All of your food and alcoholic/nonalcoholic beverages are included in the fee.

The reception, "A Taste of Space" is a casual attire event. Bus transportation will be provided to and from conference hotels beginning at 6:30pm and ending at 9:30pm.

18th Annual SEEC Banquet
Friday, February 3, 2012 7:15pm-11:45pm at Space Center Houston

The capstone for the conference is the infamous SEEC banquet, where teachers are treated to a fabulous meal prepared by our award winning in-house caterer and 2 drink tickets. (beer and wine only) All additional beer and wine will be $5.00 each. The banquet attire is business attire to semi-formal. Join us this year as we celebrate old and new friends, a rich history of space exploration and your role in educating the space explorers of tomorrow.

There is no need to purchase a ticket for the event if you are registered as a conference presenter or attendee. If you would like to purchase an additional ticket for a guest, the cost is $40. No children permitted at banquet.

Conference Dining and Social Events

In order to accommodate the variety of dietary needs of our attendees for lunches during the conference all of the great food options in Space Center Houston's Zero-G Diner will be available to you. Each attendee will receive a $15 space meal card to be used at any of our food stations each day. Food options are:

- Blast-off Bistro- Soups, Salad, and Sandwiches
- Martian Border- Mexican Fare
- Moon Wok- Asian and Stir-Fry
- Launch Food- Traditional American
- Italian Bistro- Pizza and Pasta
- Starbucks- For the coffee lovers
- Space Port Snacks

Your card can be used at any one or more of these locations each day.

Selecting Your Sessions

Selecting your individual breakout sessions is easy! Just read through this conference booklet to see the selections for each time slot. Then, use the "Organize Your Sessions" form on the last pages to organize your sessions. Finally, go online and make your session selections at www.spacecenter.org/TeachersSEEC.html. Sessions that are full will not appear. It’s that easy! Just be sure to move quickly as some sessions fill up fast. Breakout sessions include NASA tours as well as the hands-on sessions. Tours fill up especially fast, so please plan accordingly. (Closed toed shoes are required on all tours.)

If a session is full, don’t worry. Check with the Conference Help Table when you arrive to see if there are openings or watch the "swap" board for the session ticket.

If you have any questions, please contact us at (281)283-2149 or by e-mail at SEEC@spacecenter.org.

Educator Resource Center Materials

In order to receive materials from the Johnson Space Center Educator Resource Center (ERC), stop by the Educator Resource booth under the Shuttle.
One form per attendee please

Please indicate your status:

☐ Not Currently Registered
☐ Presenter
☐ NASA (not attending sessions)

Name:__________________________________________________________________________

School:________________________________________________________________________

Address:________________________________________________________________________

City:________________________State:__________Zip Code:________________________

Home Phone:______________________Work Phone:______________________________

Email:________________________________________________________________________

If presenter please list session title:______________________________________________

What grade level(s) best describe your expertise?__________________________________

PLEASE FILL OUT THE PAYMENT INFORMATION BELOW.

Please check the items you wish to purchase:

**Conference Registration**

- Presenter $100  ☐ One day conference attendance $110
- Early Bird—10/3-11/31 $279  ☐ Two day conference attendance $220
- Regular Registration—12/1-1/13 $299  ☐ NASA Presenter Gratis
- Late Registration—after 1/13 $319
- Epicurean Ticket (Thursday night) $20 Qty. ______
- Banquet Ticket, (for guest only) $40 Qty. ______

One Banquet ticket included in registration

Total: ______________________

Payment Method: ☐ Check ☐ Credit Card ☐ PO

Please make checks payable to Space Center Houston. Check #____________________

☐ Visa  ☐ MasterCard  ☐ Discover  ☐ American Express

Card # ___________________________________________ Exp. ________________

Name on card:________________________________________CVV# ______________

PO are accepted in some cases. Copy of PO must accompany registration.

PO# __________________
Fill out this order form and return it (with payment) to Space Center Houston on or before February 1st, 2012 for pre-order. These orders will be available for pick up at check-in on February 2, 2012. Shirt size availability is first come first serve. Shirts will also be available for sale at the conference, at the Help Table. Space Center Houston accepts credit cards, money orders and cash as forms of payment. If you are charging the purchase to your credit card, please be sure to provide all the necessary information. It's that easy!

**SEEC T-Shirt**

Adult Sizes only:  S____  M____  L____  XL____  XXL____

**SEEC Black Polo Shirt Style**

Women’s_______ or Men’s________

Adult Polo Sizes only:  S____  M____  L____  XL____  XXL____

Total # of T-shirts__________X $16 each $18 for XXL (tax included) = $_________

Total # of Black Polo Shirts_____X $35 each/$38 for XXL (tax included) = $________

Order total  $________________

**METHOD OF PAYMENT**

- VISA
- Mastercard
- Discover
- Diners Club
- American Express

Card # ________________________________________________________________
Expiration Date _________________________________________________________
Name as appears on card _________________________________________________
Phone # _______________________________________________________________
Signature______________________________________________________________

Questions: Phone (281) 244-2149 or email Seec@spacecenter.org