

2009 NCSSSMST Day of Exploration Activities

The Program committee is very excited to offer the following activities for our "first ever" Day of Exploration. All activities will start from the Marriott Crystal Gateway Hotel Salon HJK at 8:30 a.m. Participants must be on the guide's list at that time or they will not be included in the event at the host organization. NCSSSMST is practicing GREEN transportation by using the DC Metro. A Metro ticket or money will be provided to all persons who are registered on the guide's list for the event. Lunch will be provided by the host organization or a stipend will be provided. Once registered participants may not switch or change places. Registration emails were sent to all registered participants through 2/26/09 using the email addresses used for conference registration. If you are not registered, go to the conference check-in desk to check to inquire about open slots. Open slots will be available through 3:00 p.m. on March 12th.

The Day of Exploration will end with a celebration reception scheduled to be held at the GREAT HALL in the Academy of Sciences Building located at 2100 C St. N.W., Washington, DC. (5:00 p.m. - 7:00 p.m.)

Exploration 2009-01 Visit the American Psychological Association

Transportation: Metro, Guide: Dr. Jay Thomas, NCSSSMST President. Lunch stipend will be provided.

American Psychological Association (APA) will follow two strands. In the morning (10-noon) the focus will be on research ethics and related concerns (e.g. institutional review boards). The afternoon session will explore two closely related topics of significant consideration among Consortium schools: adolescent development and gifted/talented. The sessions will draw on the expertise of APA professional staff and would be of interest to counselors, admissions staff, institutional researchers, and teachers of psychology/social science. Maximum 20 participants

Exploration 2009-02 Visit the NASA Goddard Space Center in Greenbelt, MD

Transportation: Metro to Greenbelt MD + NASA Bus, Guide: Linda Watson, Eleanor Roosevelt Sci/Tech. Lunch stipend will be provided.

NASA Goddard Space Center is pleased to have NCSSSMST teachers learn more about what they are doing in science! Activities include: presentation: Science in a Sphere, tour of some facilities including the building where the Hubble is housed and a clean room. Information of educational resources available from NASA will be described and some take home materials. Special guest will include a Nobel Scientist. Maximum 25 participants who are US Citizens. Photo ID required. This event is full as of 2/27/09.

Exploration 2009-03 Visit the Marian Koshland Science Museum of the National Academies

Transportation: Metro to Gallery Place/Chinatown, Guide: Dr. Cheryl Lindeman, NCSSSMST Executive Director. Lunch stipend will be provided.

The Koshland Museum is a wonderful resource for teachers and students around the world! Participants will explore the exhibits on and have a roundtable discussion with Patrice Legro, Director of the Koshland Museum and other NAS representatives about "using real data" in science education. Maximum 20 participants

Exploration 2009-04 Visit the Office of National Intelligence, Langley VA

Transportation: Agency Bus from the Marriott, Guide: Doris Johnson, HR manager. Lunch Provided.

Join your fellow educators for a Day at the CIA. You will visit the CIA museum and learn from "briefers" about advanced research projects, cybersecurity and more! Lunch will be on site.

Information will be available about the scholarship and special program opportunities for students with

STEM interests. This event is sponsored by the Director of Science and Technology's outreach efforts in for the US Intelligence Community. Participants must be US Citizens. This event is full as of 2/27/09.

Visit Catholic University's Engineering Labs

Transportation: Metro to CUA, Guides: Michael Samordic and Gerald Greenbaum, Eleanor Roosevelt Sci/Tech. Lunch will be provided.

Dean, Charles Nguyen of the College of Engineering will welcome participants and they will visit Biomedical Engineering, Civil Engineering, Electrical Engineering & Computer Science, and Mechanical Engineering labs. Maximum 20 participants.

Exploration 2009-05

Visit the University of Maryland at College Park

Transportation: Metro to College Park, Guide: Jane Hemelt, Eleanor Roosevelt Sci/Tech. Lunch stipend to use at the Student Union.

The University of Maryland will showcase current work in the following areas: The College of Agriculture and Natural Resources, The College of Chemical and Life Sciences, The College of Computer and Mathematical Sciences and The College of Engineering. Students and admissions representatives will share information about their nationally recognized honors and scholars program. Maximum 20 participants.

Exploration 2009-06

Visit George Washington University

Transportation: Metro, Guides: Alexis Donoghue, Eleanor Roosevelt Sci/Tech. Lunch will be provided.

Participants will visit three activities showcasing the Institute for Biomedical Engineering, Institute for Nanotechnology and the Introduction of a Studio Model and Learning Environment with the physics department. Undergraduates and graduate students will be involved in the activities. Maximum 20 participants.

Exploration 2009-07

STEM Policy on Capitol Hill

Transportation: Metro to Capitol Hill South, Guide: Melissa Schoeplein, Thomas Jefferson HSSTT. Lunch stipend will be provided.

This Day of Exploration will inform participants of the legislative process and structures that exist to support STEM education policy. Participants will spend the day "on the Hill" with AP Government Teacher Melissa Schoeplein, also coordinator of the Science Policy internship program at Thomas Jefferson High School for Science and Technology. Washington insiders who work on STEM policy will start the day by providing a legislative overview on STEM policy issues. Participants will then attend committee hearings, drop by congressional offices to meet with staffers who work on STEM education, and engage in an important discussion with other participants about what your school is doing/can do to transform STEM education. This event is for school leaders and others interested in the link between our schools and policy. Lunch will be on the Hill. This event is full as of 2/26/09.

Exploration 2009-08

Visit Smithsonian Museums Group 1 – Science Focus

Transportation: Metro to Smithsonian/National Mall, Guide: Local NCSSSMST Teachers. Lunch stipend will be provided. This group will start at the Museum of Natural History and proceed as they wish to other museums. The Group will meet for lunch at Capital Gallery Building at Noon followed by a discussion "Smithsonian in Your Classroom" with The Smithsonian Center for Education and Museum Studies staff. Location: 4th level conference room, 600 Maryland Ave, SW. Maximum 20 participants

Exploration 2009-09

Exploration 2009-10

Visit Smithsonian Museums Group 2 – Art Focus

Transportation: Metro to Smithsonian/National Mall, Guide: Local NCSSSMST Teachers. Lunch stipend will be provided.

This group will start at the National Gallery of Art and proceed as they wish to other museums. The Group will meet for lunch at Capital Gallery building at Noon followed by a discussion Smithsonian in Your Classroom” with The Smithsonian Center for Education and Museum Studies staff. Location: 4th level conference room at 600 Maryland Ave, SW. The rest of the afternoon will be for museum visits. Maximum 20 participants.

Exploration 2009 -11

Visit SSP for Roundtable Discussion

The Society for Science & the Public will hold a round-table discussion and luncheon that will focus on our education programs. Teachers/Directors who are directly involved with the ISEF fairs are invited to attend. The SSP Fellows Program, the Intel Science Talent Search, and science fair involvement (by students and teachers) will be reviewed. SSP is interested in hearing more from NCSSSMST teachers as to how they can support the local efforts.

Events at the Marriott Crystal Gateway Hotel

These groups will leave the hotel by 4:00 p.m. and travel by Metro to the Celebration Reception held at the GREAT HALL of the National Academy Building.

Workshop 2009-01

Data Gathering in Upper Level Mathematics

9:30 a.m.-3:00 p.m. Salon A

Math teachers, want to add some inquiry and hands-on learning in your classroom? Spend the day working with Vernier probeware to gather real world data. We will work through activities appropriate for Advanced Algebra, Pre-Calculus and Trigonometry to find the mathematics then modify them to fit our individual needs. Graphing calculators and probe ware will be provided. Workshop facilitator is Karen Pikula, math instructor/team leader from the Dearborn Math and Science Center. Texas Instruments will be supporting this workshop with materials. Participants are expected to have their own graphing calculators. Box Lunch will be provided. Maximum 25 participants.

Workshop 2009-02

Keystone Youth Policy Summit Mediation Training for Educators

9:30 a.m.-3:00 p.m. Salon B. Facilitators: Jeremy Kranowitz & Annmarie Fussell

Come learn and practice mediation skills that can be applied in interdisciplinary programs by teachers AND administrators. The Keystone Policy Summit co-directors will lead this session. The skills learned can be applied to lessons you teach. If you are interested in chaperoning a student group to Keystone, then this workshop is top on your list! The Keystone Center and NCSSSMST have developed the YPS over the past 5 years. The mediation training is unique to the Keystone Science School's Programs. Box Lunch will be provided. Maximum 30 participants.

Workshop 2009-03

Open Forum for Administrators of NCSSSMST Member Schools

9:00-11:00 a.m. Salon D. Facilitator: Dr. Ron Laugen, former NCSSSMST President

If you are a head of school, here is your chance to meet with other like minds to discuss education challenges and successes. Also, you will have an opportunity to share ideas to strengthen NCSSSMST's ties with the schools.