



NORTHEAST YOUTH AND ADULT FORUM

July 23-26, 2009 at the University of NH

Theme: Land, Sea and Space

Why would you want to spend 4 summer days on the beautiful UNH campus in Durham, NH? Could it be the opportunity to explore one of only thirteen colleges in the United States to hold a land-, sea- and space-grant? Or maybe the chance to stay at the University's award winning New England Center at night, and use state-of-the-art equipment and facilities during the day? Are you interested in a career in science, engineering or technology? Do you want to help your community?

And, by the way...***Do you like to HAVE FUN?***

The United States is falling dangerously behind other nations in developing its future workforce of scientists, engineers, and technology experts. America now faces a future of intense global competition with a startling shortage of scientists. Only 18 percent of US high school seniors are proficient in science (NAEP 2005). A mere 5 percent of current US college graduates earn science, engineering, or technology degrees compared to 66 percent in Japan and 59 percent in China. Couple these statistics with the fact that current scientists and engineers are retiring in record numbers, and it becomes clear that America faces a crisis in its ability to keep up with increasing demand for professionals trained in these fields.

The 4-H Youth Development Program is directly connected to the research and resources of the 106 land grant universities and colleges of the Cooperative Extension System. This connection strategically positions 4-H to strengthen US global competitiveness and leadership.

For more than a century, 4-H has engaged our country's youth in the building blocks of economic success. This has meant a solid focus on agricultural science, electricity, mechanics, entrepreneurship, and natural sciences. Today, 4-H out-of-school opportunities also exist in subjects like rocketry, robotics, bio-fuels, renewable energy, and computer science. 4-H Science, Engineering and Technology programs reach more than 5 million youth with hands-on learning experiences to encourage young minds and to fill the pipeline of young leaders proficient in science. These experiences are supported by more than a half million dedicated adult volunteers who are placing 4-H youth on a path towards successful careers. (http://4-h.org/programs_mission_mandates/set.html, 2009)

Teams from the Northeast region, comprised of two youth (13+) and 1 adult (a screened 4-H leader) may attend the conference. The adult chaperone will provide overnight supervision. The cost of \$400/person includes hotel, food, transportation and materials while at the event. Check with your County Cooperative Extension office to see if sponsorship funds are available. We look forward to hosting teams from most of the Northeast states.

Please see itinerary on other side.

The University of New Hampshire Cooperative Extension is an equal opportunity educator and employer.
University of New Hampshire, U.S. Department of Agriculture and N.H. counties cooperating.



THURSDAY, July 23

- 3-5:00 pm Arrive at the New England Center, 15 Strafford Avenue, Durham, NH www.newenglandcenter.com Orientation
- 6:00 pm Dinner and opening program, followed by an interactive mixer utilizing the Design It!/ Explore It! curriculum.

FRIDAY, July 24 *See what's happening at the University level....*

- 8:00 am Breakfast
Individuals or teams will choose their “track” for the duration of the conference: Land, Sea or Air & Space
- 9-3:00 pm Tours, workshops, research and activities on the UNH campus.
Land: Organic Dairy, Conventional Dairy, Horticulture, Plant Genetics, Nutrition Labs
Sea: Estuary Studies, Wave Tank, Marine Studies, Shellfish Dissection
Space/Air: Robotics Lab, Observatory, Atmospheric Lab, Remote Sensing Lab, Institute for the Study of Earth, Oceans and Space

- 3-5:00 pm Return to the New England Center, “snack &free” time
- 5:00 pm Dinner, followed by a SET showcase and team building skill development through SET activities. Followed by relaxation and fun.

SATURDAY, July 25 *Explore a concentration of very interesting subject matter....*

- 8:00 am Breakfast
- 9 – noon Subject matter workshops. Registrants will choose to attend one activity, listed below, from their previously selected track. The goal of these workshops will be to provide participants with the information and skills to teach what they have learned at the conference to their community when they return home.

Land Choose from
 1.) Science of Animals or
 2.) Horticultural Science with the Junior Master Gardeners

Sea Choose from
 1.) Marine Science or
 2.) Fresh Water Science

Air/Space Choose from
 1.) Robotics (working with First Robotics program) or
 2.) The Power of Wind.

Members of the team are welcome to choose/explore the subjects as a team or individually, but will follow their selected track for the duration of the conference.

- Noon–1:30pm Return to the New England Center / Lunch
- 1:30-4:30pm The entire group reunites for “How to Teach”, how to manage groups and understanding evaluation workshops. Don’t worry, they will be very interactive!
- 5:30 pm Dinner, followed by time to prepare for presentations on Sunday

SUNDAY, July 26

The morning will be dedicated to presentations as teams “teach back” to the other teams, followed by brunch and celebration of success.
 Check-out at 1:00 pm

Return home to share what you have learned with your community!

STAY TUNED FOR A LINK TO THE REGISTRATION PAGE ~ COMING SOON