

AGENDA:

Workshop on Education and Public Outreach in Nuclear Science December 1-2, 2006, Brookhaven National Laboratory

NSAC Charge for 2007 LRP Process:

“An important dimension of your plan should be the role of nuclear physics in advancing the broad interests of society and ensuring the Nation’s competitiveness in the physical sciences and technology. Education of young scientists is central to the mission of both agencies and integral to any vision of the future of the field. We ask NSAC to discuss the contribution of education in nuclear science to academia, medicine, security, industry and government, and strategies to strengthen and improve the education process and to build a more diverse research community. Basic research plays a very important role in the economic competitiveness and security of our Nation. We ask that NSAC identify areas where nuclear physics is playing a role in meeting society’s needs and how the program might enhance its contributions in maintaining the Nation’s competitiveness in science and technology.”

HANDOUTS (to be e-mailed out in advance):

- NSAC Subcommittee on Education, Executive Summary (have several copies of full report at the disposal of the breakout groups)
- Aspen report on High Energy Physics Outreach
- Gathering Storm Report
- APS Education Department statement on future initiatives

Friday, December 1

- 1:00 – 1:30 pm Welcoming remarks & discussion of process
- NSF Representative
 - DOE Representative
 - Organizing committee
- 1:30 – 3:00 pm PANEL DISCUSSION I – Recruitment and retention of the next generation of nuclear scientists (Tim Hallman, Chair)
- 1) Undergraduate research participation (John Mateja, Murray State)
 - 2) Nuclear Chemistry Summer School (Richard Ferreiri, BNL)
 - 3) Education partnerships at Idaho National Lab (Roger Mayes, INL)
 - 4) High School Student Research Participation (Peggy McMahan, LBNL)
- 3:00 – 3:15 pm Successful public outreach (Mona Rowe, BNL)
- 3:15 – 3:30 pm BREAK
- 3:30 – 5:00 pm PANEL DISCUSSION II – K-12 Education (Con Beausang, Chair)
- 1) Middle School outreach (Jan Tyler, JLAB)
 - 2) PAN for teachers and students (Michael Thoennesen, MSU)
 - 3) Plasma Camp (Andrew Post Zwicker, PPPL)
 - 4) Quarknet (Helio Takei, BNL) and Richard Gearns (teacher))
- 5:00 – 6:30 pm PANEL DISCUSSION III – Fostering Diversity (Daeg Brenner, Chair)
- 1) Women in Science (Vanita Ghosh, BNL)
 - 2) RISE (Jolie Cizewski, Rutgers U)
 - 3) Hampton Center for Particle/Nuclear Physics (Claudia Rankins, Hampton)
 - 4) Science Education Programs in Oak Ridge, TN (Wayne Stevenson, ORAU)
- 7:30 pm DINNER (Sea Basin, Rocky Point)

Saturday, December 2

8:30 – 10:00 am Breakout session 1 (Objectives and desired outcomes)

Small groups will consider a set of questions. Groups will be preassigned to ensure diverse representation.

- Where should our community's education and outreach resources be spent over the next ten years? Why? What impact will it have on our nuclear science community? Other stakeholders (e.g., educators, students)? National needs?
- For the 2-3 top priority goals for our education and outreach investment, what are the desired outcomes? How will we measure success?

At this time specific programs or strategies to achieve them WILL NOT be discussed.

10:00 – 10:20 BREAK

10:20 – 11:00 Breakout groups report back

11:00 – 12:00 Large group discussion.

12:00 – 1:00 LUNCH

1:00 – 2:00 Continue large group discussion; formulate recommendations for top 2-3 goals (bullet in long range plan)

2:00 – 3:30 Breakout session 2 (Strategies and action plans)

Small groups will consider strategies and actions to achieve the objectives decided by the large group discussion. Groups will be reformulated around the top recommendations.

3:30 – 3:45 BREAK

3:45 – 4:20 Breakout groups report back

4:20 – 6:00 General discussion, summarize recommendations, draft priorities, Charge to writing group