



U.S. DEPARTMENT OF
ENERGY

Nuclear Energy

NUCLEAR ENERGY UNIVERSITY
PROGRAMS (NEUP)
WELCOME

Mary McCune
Office of Nuclear Energy Headquarters
NEUP Program Manager
July 27, 2010



U.S. DEPARTMENT OF
ENERGY

Nuclear Energy

Nuclear Energy University Programs Mission

As an integral component of the overall NE Research, Development and Demonstration mission, engage the U.S. university community to identify and provide resources to conduct mission-specific and related R&D, university infrastructure improvements, and student fellowship and scholarship grants supporting university-based nuclear science and engineering research.



NEUP FY 2011 Workshop

■ Purpose:

- Inform the university community on:
 - R&D priorities
 - Solicitations
- Gather/Provide feedback on NEUP processes
 - Survey results
 - Lessons learned
- Provide training opportunity
 - Proposal writing workshop





■ Research and Development (R&D)

- 42 projects approved for award announced on May 20, 2010
 - \$38 million over 3-4 years
 - 23 lead universities in 17 states, 9 universities and 6 national labs collaborating
 - Projects support Fuel Cycle R&D, Generation IV R&D, Light Water Reactor Sustainability, and Mission-Relevant Investigator-Initiated Research
- Significantly increased interest in Awards by Secretary's Office
 - Approved Press Release
 - Press Conference led by Deputy Secretary



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FY 2010 NEUP Infrastructure and Fellowship & Scholarship Awards

- Awards announced July 8, 2010
- Infrastructure
 - \$13.2 million awarded to 39 U.S. universities and colleges to purchase new equipment or to upgrade their research reactors.
- Fellowships and Scholarships
 - 85 scholarships of \$5000 each awarded to undergraduate students
 - 32 fellowships to graduate students of \$50,000 a year over the next three years



NEUP Workshop Agenda



NEUP
Nuclear Energy
University Programs
U.S. Department of Energy

FY2011 Nuclear Energy
University Programs Workshop
Hilton Rockville Executive Meeting Center
July 27-28, 2010

FY 2011 Nuclear Energy University Programs (NEUP) Workshop

Agenda

TUESDAY, JULY 27, 2010

7:30 am	Registration/Continental Breakfast
8:30 am	Welcome Remarks <ul style="list-style-type: none">• Ms. Mary McCune - NEUP Program Manager
8:45 am	Review of the NEUP Program in 2010 <ul style="list-style-type: none">• Dr. Marsha Lambregts - Relationship Manager, NEUP-Integration Office
9:15 am	Survey Results and Lessons Learned <ul style="list-style-type: none">• Mr. Greg Bala - NEUP-Integration Office
10:15 am	Proposed Changes to the NEUP Program in 2011 <ul style="list-style-type: none">• Dr. Warren F. Miller, Jr. - Assistant Secretary for Nuclear Energy
10:45 am	Break
11:00 am	Implementation of the Proposed 2011 Process <ul style="list-style-type: none">• Dr. John Gilligan - Director, NEUP-Integration Office
12:00 pm	Discussion of Ground Rules for Open Microphone Session <ul style="list-style-type: none">• Dr. John Gilligan - Director, NEUP-Integration Office
12:15 pm	Lunch <ul style="list-style-type: none">• Responsive and Effective Proposal Writing - Dr. Todd Allen - University of Wisconsin-Madison
1:30 pm	Open-Microphone Session <ul style="list-style-type: none">• Dr. John Gilligan - Director, NEUP-Integration Office
3:00 pm	Preparation for Tomorrow's Sessions <ul style="list-style-type: none">• Dr. Marsha Lambregts - Relationship Manager, NEUP-Integration Office



NEUP Workshop Agenda (Cont.)



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3:15 pm **Break**

3:30 pm **DOE-NE 2011 Program Needs**

- FOR&D Overview – John Herzog, DOE-NE
- Reactor Concepts – Sal Golub, DOE-NE
- Nuclear Energy Enabling Technologies – Rebecca Smith-Keaven, DOE-NE

5:00 pm **Adjourn**

5:30 pm **No-Host Reception and Opportunity for Informal One-on-One Discussions Between University and DOE-NE R&D Program Staff**

WEDNESDAY, JULY 28, 2010

7:30 am **Continental Breakfast**

8:00 am **Break-Out Sessions #1/2/3/4**

- Modeling and Simulation (Dan Ingersoll/Hans Gougar/David Pointer)
- Separations, Waste Forms and Used Fuel Disposition (Kevin Felker/Peter SwPi/Xin Sun)
- Safety and Licensing (Dan Williams/Jim Peltz)
- Safeguards and Nonproliferation (Dan Vega)

10:00 am **Break**

10:15 am **Break-Out Sessions #5/6/7/8**

- Materials (Will Winda/Richard Wright/Jeremy Busby/Stu Maloy/Xin Sun)
- Power Conversion (Jim Sienick)
- Neutronics (Hans Gougar)
- Nuclear Instrumentation and Control (Dan Ingersoll/Dan Williams/Dan Vega/Sulbe Schuppner)

12:15 pm **Lunch - Integrated University Program Status**

- John Gutteridge - NRC; David LaGrafte - NWSA; Mike Worley/Mary McCune - NE

1:30 pm **Break-Out Sessions #9/10/11/12**

- Reactor Designs (Dan Ingersoll/Chris Gandy)
- Systems Analysis (Hans Gougar/Dan Williams/Brad Williams/ARC)
- Nuclear Fuels (Dave Petti/Stu Maloy)
- Nuclear Physics (Dan Vega/Rob Verselis)

3:30 pm **FY 2012 Workshop Planning**

4:00 pm **Adjourn**