



Los Alamos's Energy Security Center (ESC) is hosting Energy Days II, a series of townhall meetings and workshops running from July through September 2008. Energy Days II will kickoff with a plenary session on July 16th, to inform staff about the current state of Energy R&D at LANL as well as the recent activities within our Directorates and Program Offices aimed at stimulating new energy R&D ideas and programs. The plenary session will be followed by workshops in the three, 2008 Energy Security Center focus areas: Sustainable Nuclear Energy, Energy Storage and the Climate-Energy-Infrastructure Nexus. The event is a follow-up to the Lab's 2006's Energy Days workshop, which began the conversation about the role of energy R&D in LANL's national security mission.

Energy Days II Plenary Session:

Wednesday, July 16th 2008, 9:00 to 11:30, Jemez and Cochiti Rooms, J. Robert Oppenheimer Study Center. Duncan McBranch, PADSTE, and Cathy Wilson, Energy Security Center, will discuss LANL's energy mission and strategy and activities at the institutional and grass roots levels to develop and grow LANL's contribution to national energy R&D needs. A panel of Associate Directors and Program Directors will identify their energy R&D goals and discuss what their organizations are doing to achieve those goals. The panel presentations will be followed by staff Q&A and discussion. Staff feedback on LANL's Energy strategy, focus areas and development activities, will be solicited. Ideas on how to best engage staff in accelerating implementation of the LANL Energy R&D strategy are encouraged. POC: Cathy Wilson, ESC Director, 7-0202.

Sustainable Nuclear Energy Workshops:

Modeling and Simulation for Nuclear Energy

July 29-30, 2008, 8:00 – 5:00, Jemez and Cochiti Rooms, J. Robert Oppenheimer Study Center

This workshop will inform staff about the national nuclear energy program structure, players and opportunities, and where LANL is well positioned to contribute to the national agenda. Theme sessions will be held to identify the models and other science that LANL can bring to bear for the national nuclear energy enterprise. The theme areas are "Integrated Codes", "Advanced Theory, Models, and Numerical Methods" and "Strategic Directions". The results of the sessions will be incorporated into briefing materials for program development activities. POC: Stephen Lee, CCS-DO, 7-3335.

Strengthening the Nonproliferation Regime in the Context of Nuclear Energy Expansion,

Wednesday, August 6, 2008, Location TBD

This workshop will increase awareness of nuclear energy nonproliferation objectives and challenges, advance strategic dialogue among LANL staff to generate new ideas in this area, and identify teams to develop briefing documents for NNSA and other Federal organizations. This workshop will consist of a series of speakers covering the global nonproliferation regime, LANL capabilities in this area, and associated gaps and challenges where LANL can contribute. There will be ample time for staff discussions and interactions. POC: Aimee Blanchard, IAT-1, 7-6861.

Environmental Considerations for a Sustainable Nuclear Fuel Cycle

Tuesday, August 19, 2008, 8:00 – 12:00, MSL Auditorium; 1:30 – 5:00, Otowi Siderooms A&C

This workshop will increase awareness of environmental aspects of sustainable nuclear energy objectives and challenges; advance strategic dialogue among LANL staff; engage new participants to generate new ideas or teams that can contribute to this area; develop initial areas for specific proposals or initiatives and tactics for getting these funded. This workshop will consist of speakers covering the LANL capabilities in integration of science, engineering and systems, including four primary components: repository and waste processing engineering, waste forms and design, and systems analysis from power system design through processing to non-proliferation. Identification of associated gaps and challenges where LANL can contribute will be a key area of discussion. An extensive panel-guided discussion will solicit audience questions, participation and input. POC: David Janecky, ENV-EAQ, 5-0253.

Climate-Energy-Infrastructure Nexus Workshop

Wednesday, August 13, 2008, 8:00 – 1:00, Jemez Conference Room, J. Robert Oppenheimer Study Center

The focus of this workshop will be the development of a framework for investigating the impacts of climate change on natural systems and infrastructure. Speakers will describe a comprehensive framework encompassing global climate models down to regional infrastructure and hydrological models with relevant uncertainty quantification that can be used by policy makers to inform future adaptation and mitigation strategies. We will then lead an open discussion on key missing science and capability gaps and ideas for addressing those gaps, including model validation and parameterization needs. This input will be included in documents to guide program development and proposal activities for the coming year and beyond. POC: Phil Jones, T-3, 7-6387

Energy Storage Workshop

Wednesday, September 17, 2008, 8:00 – 5:00, Jemez and Cochiti Rooms, J. Robert Oppenheimer Study Center

This workshop will focus on the need for large-scale energy storage to support the integration of renewable energy sources into the nation's electricity grid. The required characteristics of such storage systems will be presented, along with a gap analysis indicating possible avenues for LANL research. We will focus on what is known and what is yet to be achieved in capacitive and electro-chemical storage. The results of this workshop will be used to seek funding from a variety of sponsors including the DOE, private companies, and research partnerships. POC: Bill Tumas, Program Director, Applied Energy Programs, 7-3803