

DOE EPSCoR ANNUAL PROGRAM REVIEW AND WORKSHOP 2009

U.S. Department of Energy

Experimental Program to Stimulate Competitive Research (DOE-EPSCoR)

Hosted by Brookhaven National Laboratory

Long Island, New York

July 20-23, 2009

Monday, July 20, 2009

Hyatt Hotel

6:00 – 7:00 pm *Terrace Ballroom* Registration
Foyer Hors d'oeuvres
Terrace Ballroom

Session I	Terrace Ballroom	Energy and Economic Impacts of Research and Development
7:15 – 7:30 pm		Introductions/Announcements
7:30 – 8:30 pm		Growing High Tech on the Great Plains; Philip Boudjouk, VP President of Energy Research, Creative Activities and Technology Transfer, North Dakota State University, Fargo, ND

Tuesday, July 21, 2009

Hyatt Hotel

7:30 – 8:15 am *Terrace Ballroom* *Welcome and Introductory Remarks – Tim Fitzsimmons, Program Manager, EPSCoR Program; Scattering and Instrumentation Sciences Team, Division of Materials Sciences and Engineering, Office of Basic Energy Sciences, Office of Science, U.S. Department of Energy, Germantown, Maryland*
Foyer

Session II	Grand Ballroom Salon D	Overview of Brookhaven National Laboratory - Doon Gibbs , Deputy Director for Science & Technology, Brookhaven National Laboratory, Upton, NY
8:15 - 8:40 am		Introduction to the Center for Function Nanomaterials – Emilio Mendez , Director, Center for Functional Nanomaterials, Brookhaven National Laboratory, Upton, NY
8:40 - 9:00 am		Introduction to the National Synchrotron Light Source – Chi-Chang Kao , Chair, National Synchrotron Light Source, Brookhaven National Laboratory, Upton, NY
9:00 – 9:25 am		Introduction to the Relativistic Heavy Ion Collider – Tom Ludlam , Chair, Physics Department, Brookhaven National Laboratory, Upton, NY
9:25 – 9:50 am		Break
9:50 – 10:15 am		Real Time X-ray Scattering Studies of Surface Patterning and Thin Film Deposition – Randy Headrick , Department of Physics and Materials Science Program, University of Vermont, Burlington, VT

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Tuesday, July 21, 2009 (continued)

10:15 – 10:30 am *Salon D Foyer* A Study of Ultra-Peripheral Collisions at RHIC – **Janet Seger**, Creighton University, Omaha, Nebraska

Session III	Grand Ballroom Salon D	Theory, Modeling and Simulation Chair: Mark Hybertsen, Theory and Computation Group Leader, Center for Functional Nanomaterials, Brookhaven National Laboratory, Upton, New York
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10:30 – 10:55 am Introductory Remarks for Session III

10:55 – 11:20 am Density Functional Study of Water-Gas-Shift Reaction on Metal-Oxide Catalysts – **Ping Liu**, Chemistry Department, Brookhaven National Laboratory

11:20 – 11:25 am Lunch (Boxed)

11:25 – 12:05 pm *Luncheon Speaker: X-ray Microscopy* – **Janos Kirz**, Scientific Advisor, Advanced Light Source, Lawrence Berkeley National Laboratory

12:05 – 12:20 pm *Salon D Foyer* Optoelectronic Properties of Carbon Nanostructures – **John Mintmire**, Oklahoma State University, Stillwater, Oklahoma

12:20 – 1:00 pm Scalable Computational Methods for the Analysis of High-Throughput Biological Data – **Michael Langston**, University of Tennessee, Knoxville, Tennessee

1:10 – 1:35 pm Nanomagnetism – **Siu-Tat Chui**, University of Delaware, Newark, Delaware

1:35 – 2:00 pm Break

2:00 – 2:25 pm Buses Depart to BNL for *Tours*

2:25 – 2:35 pm *Salon D Foyer* Additional Bus/Shuttle Departs to BNL for *Poster Session/Working Dinner* at BNL

Session IV		BNL Facility Tours (<i>tours are 45 minutes each with 15 minutes for getting on and off the bus and transit time</i>)
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4:30 pm Poster Set-up (Group A), Brookhaven Center –
There may be some set-up activities immediately after the tours as well.

3:15 – 5:30 pm Concurrent Tours – BNL – participants may choose two
Tour A – National Synchrotron Light Source (NSLS)
Tour B – Center for Functional Nanomaterials (CFN)
Tour C – Relativistic Heavy Ion Collider (RHIC)

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Tuesday, July 21, 2009 (continued)

Session V		Posters (Group A) and Networking
5:30 – 7:30 pm		Poster Session – Group A and Working dinner at BNL The Importance of Public/Private Partnerships in the Energy Sector;; Mark Torpey, New York State Research and Development Authority, Albany, New York
7:30 pm		Buses depart for Hyatt Hotel

Wednesday, July 22, 2009

Hyatt Hotel

7:30 – 9:00 am	<i>Salon D Foyer</i>	Registration, Continental Breakfast
7:30 – 8:00 am	<i>Grand Ballroom Salon G</i>	Poster Session Set-up, Group B

Session VI		Poster Session (Group B) and Networking
8:00 – 10:00 am	<i>Grand Ballroom Salon G</i>	Poster Session – Group B
10:00 – 10:20 am	<i>Salon D Foyer</i>	Break
Session VII	<i>Grand Ballroom Salon D</i>	A Sampling of Current State-National Laboratory Partnership Research Chair: Name, Stephen Bremner, Department of Electrical and Computer Engineering, University of Delaware

10:20 – 10:30 am		Welcoming Remarks for Day II and for Session VII – Tim Fitzsimmons, DOE
10:30 – 10:55 am		Influence of Sea Ice on Arctic Marine Sulfur Biogeochemistry in the Community Climate System Model (CCSM) – Clara Deal, University of Alaska, Fairbanks
10:55 – 11:20 am		Ro-vibrational Relaxation Dynamics of PbF Molecules – Neil Shafer-Ray, University of Oklahoma, Norman, Oklahoma
11:20 – 11:45 am		Studies of Novel Quantum Phenomena in Ruthenates – Zhiqiang Mao, Tulane University, New Orleans, Louisiana
11:45 – 12:05 pm	<i>Salon D Foyer</i>	Lunch (Boxed)
12:05 – 12:35 pm		<i>Luncheon Speaker I</i> - Partnership Opportunities Between EPSCoR and WDTS, Bill Valdez , Director, Office of Workforce Development for Teachers and Scientists, Office of Science, U.S. Department of Energy, Washington, DC

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Wednesday, July 22, 2009 (continued)

12:35 – 1:05 pm *Luncheon Speaker II, Small Business Industrial Research and Small Business Technology Transfer Opportunities with the U.S. Department of Energy – **Larry James**, DOE SBIR/STTR Program Manager, U.S. Department of Energy, Germantown, MD*

1:05 – 1:15 pm Break

Session VIII	<i>Grand Ballroom Salon D</i>	Opportunities for Collaboration and Proposal Writing and Evaluation Workshop Chair: Larry James, US Department of Energy and Deb Easterly, Director of Research Development & Compliance, Office of Research, Idaho State University
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1:15 – 3:00 pm Introductory Remarks, “Working with the National Laboratories,”
Panel – National Laboratory Presentations from the National Labs who are present

Cynthia Jenks, Ames Laboratory

Denny Mills, Deputy Director, X-Ray Science, Advanced Photon Source, Argonne National Laboratory

Ron Pindak, Brookhaven National Laboratory

Janos Kirz, Scientific Advisor, Advanced Light Source, Lawrence Berkeley National Laboratory

Nan Sauer, Los Alamos National Laboratory

Gregory Smith, Low-Q Scattering Group Leader, and High Flux Isotope Reactor (HFIR) Operations Coordinator, Neutron Scattering Science Division, Oak Ridge National Laboratory

Kelly Sullivan, Pacific Northwest National Laboratory

Marie Garcia, University Research Program Manager, Sandia National Laboratory

3:00 – 3:15 pm *Salon D Foyer* Break

3:15 – 4:30 pm Proposal Writing and User Access Panel and Workshop
Presentations on the Proposal Preparation and Evaluation Processes
Tim Fitzsimmons, DOE EPSCoR
Bruce Ravel, Brookhaven National Laboratory User Executive Committee and National Institutes of Standards
-- lead presentation followed by more informal discussions
BNL User Facility, Representative(s)

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Wednesday, July 22, 2009 (continued)

~3:30 – 4:30 pm		Parallel session for attendees to speak with National Laboratory Representatives one-on-one
	<i>Grand Ballroom Salon C</i>	Cynthia Jenks , Ames Laboratory
	<i>Shelter Island</i>	Ron Pindak (NSLS) & Mircea Cotlet (CFN) , Brookhaven National Laboratory
	<i>Robin’s Island</i>	Denny Mills , Argonne National Laboratory
	<i>Grand Ballroom Salon E (1/2)</i>	Kelly Sullivan , Pacific Northwest National Laboratory
	<i>Grand Ballroom Salon F</i>	Marie Garcia , University Research Program Manager, Sandia National Laboratory
	<i>Grand Ballroom Salon H</i>	Gregory Smith , Oak Ridge National Laboratory
	<i>Grand Ballroom Salon G</i>	Janos Kirz , Scientific Advisor, Advanced Light Source, Lawrence Berkeley National Laboratory
	<i>Trustee’s Boardroom</i>	Larry James , US Department of Energy and Deb Easterly , Director of Research Development & Compliance, Office of Research, Idaho State University
	<i>Grand Ballroom Salon E (1/2)</i>	Nan Sauer , Director, Institutes Office, Los Alamos National Laboratory
4:30 – 4:45 pm	<i>Grand Ballroom Salon D</i>	Summary Remarks, Ron Pindak , Brookhaven National Laboratory, and Tim Fitzsimmons , U.S. Department of Energy (NOTE – Thursday Implementation Award presentations are open to all as interest and schedules permit)

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Wednesday, July 22, 2009 Satellite Meeting

Hyatt Hotel

5:00 – 8:30 pm	<i>Terrace Ballroom</i>	DOE EPSCoR Program Directors Working Group Meeting DOE EPSCoR News and Updates, Tim Fitzsimmons , DOE EPSCoR Program Manager Working Dinner, Hyatt Hotel; <1 hr Program Director Discussion/Questions and Answers University of Alabama Implementation Award Presentation, Jay Khodadadi Louisiana Implementation Award Presentation, Michael Khonsari, PhD , Project Director and Associate Commissioner for Sponsored Programs Research and Development Louisiana Board of Regents, Baton Rouge, LA
8:30 pm		Adjourn

Thursday, July 23, 2009

Hyatt Hotel

7:30 – 8:00 am	<i>Grand Ballroom Salon D Foyer</i>	Registration, Continental Breakfast
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Session IX	<i>Grand Ballroom Salon D</i>	Implementation Award Presentations Chairs: Name, Title, Org, City, State
8:00 – 8:15 am		<i>Welcome and Introductory Remarks</i> – Tim Fitzsimmons , Program Manager, U.S. Department of Energy EPSCoR Office
8:15 – 8:45 am		<i>Session IX, Talk 1</i> – – Puerto Rico, Ram Katiyar , University of Puerto Rico
8:45 – 9:15 am		<i>Session IX, Talk 2</i> – – Tennessee, Jimmy Mays , University of Tennessee
9:15 – 9:45 am		<i>Session IX, Talk 3</i> – – Montana , Al Cunningham , Montana State University
9:45 – 10:15 am		<i>Session IX, Talk 4</i> – – New Mexico, Plamen Atanassov , University of New Mexico
10:15 – 10:30 am	<i>Salon D Foyer</i>	Break
10:30 – 11:00 am		<i>Session IX, Talk 5</i> – – Oklahoma, Satyanarayan Nandi , Oklahoma State University
11:00 – 11:30 am		<i>Session IX, Talk 6</i> – – Idaho, Josh Pak , Idaho State University

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Thursday, July 23, 2009 (continued)

11:30 – 12:00 pm		<i>Session IX, Talk 7 – – South Carolina, Terry Tritt, Clemson University</i>
12:00 – 1:00 pm	<i>Salon D Foyer</i>	Working Lunch
1:00 – 1:50 pm		Discussions
1:50 – 2:00 pm		Closing Remarks, Tim Fitzsimmons ; BNL Staff
2:00 pm		Adjourn