
Materials Science Division Meeting

September 24, 2004

Budget

DOE Review of CMP, MC

Performance Evaluations

News Update

Budget

BES wide budget cuts in core research in FY05

Condensed Matter Physics/Materials Chemistry: 7.5%

Materials and Engineering Physics: 4%

FY06: expect a similar additional cut

BES programs in other Labs cut as much or more

FWP Leaders are planning FY05 budgets

creativity and innovation to make multi-year plan

MSD Outlook

history

received substantial unplanned supplements in FY04

theory, synchrotron science, synthesis, . . .

competed for substantial new money

synchrotron powder diffractometer Mitchell et al

diffuse neutron scattering Osborne, Rosenkranz

spin echo resolved grazing incidence surface scattering Felcher, te Velthuis

TEAM, UNCD, catalysis (BES/OIT), . . .

LDRD Competitive/Strategic

Named Postdoc (Michael Zach)

competing for three hydrogen proposals: due January 3, 2005

MSD Outlook

scientific recognition/foundation

7 ISI Highly Cited Researchers in Materials at ANL, 6 in MSD

Alex Abrikosov - Nobel Prize in Physics for Superconductivity 2003

Dieter Gruen - MRS Medal for UNCD

Many honors/awards for scientific accomplishment

ANL 20 year strategic plan: leading Lab for materials research

CNM coming on strong- science and funding

materials community at ANL: MSD, CHM, BIO, CNM, MSC, CMT, ET . . .

aggressive hiring plans for university joint appointments, MSD appointments

approval/encouragement of Lab/BES management

joint science programs with university partners: UC, NU, ND, NIU . . .

trajectory is on the rise

MSD Outlook

plan

build our reputation in BES for quality

awards: Nestor Zaluzec - August Kohler Award 2004

research accomplishments - nanoscale ferroelectricity Fong et al, Science

DOE review of CMP/MC January 26-28, 2005

leadership of BES strategy:

ultrasmall/ultrafast/theory,modeling/energy/complexity

neutron/x-ray summer school

hydrogen economy/solar conversion

build/propose programs:

catalysis, biomolecular materials, in situ experiments, STM, EMC . . .

communicate with BES early and often- research highlights, awards, white papers . . .

ask for/justify supplements to expand exceptional existing programs

DOE Review of CMP/MC

Review Document: Nov 15, 2004

Review: January 26-28, 2005

THE major activity for Fall/Winter

scientific reputation and funding in BES depends crucially on this 3 year review

objective: communicate to reviewers/BES program managers

world-class scientific plans for next 3 years (>60%)

world-class past scientific accomplishments (<40%)

format: FWP by FWP

messages:

world-class research focused on defined FWP mission

strong benefit from supporting connections across MSD, Lab, world

DOE Review of CMP/MC

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THE major activity for Fall/Winter

strategy: three venues to deliver our message

Review Document, Oral Talks, Posters

Define the FWP-specific message in the Review Document

Deliver the *same* FWP-specific message three times

Quality/consistency of Review Documents (<http://www.sc.doe.gov/bes/peerreview.html>)

FWP proposal preparation team (selected by FWP Leader)

FWP proposal review team (selected by FWP Leader)

members from CMP, MC, and MTeam

Timetable:

first draft of Review Document due October 8

two rounds of review by review team

final Review Document due November 15

DOE Review of CMP/MC

Review Document: Nov 15, 2004

Review: January 26-28, 2005

THE major activity for Fall/Winter

Review

MSD research highlights CD = posters at review

deliver the same FWP-specific messages as Review Document, Talks

Oral Talks -in discussion with BES

Big Book of presentations and poster titles

messages:

synthesis/Experiment/Theory/Simulation: we cover all aspects of a research area

world-class, high impact research

science driving Facilities - forefront instrumentatan for forefront science

interdisciplinary broad scope taking advantage of national lab environment

Performance Appraisals

HR: standardize Position Descriptions with Performance Appraisals

format: Major Actions = Evaluation Criteria

productive discussions with Marge Collins/Kim Martens

result: Major Actions now conform to our evaluation criteria

make HR's process consistent with our science based evaluation

new Position Descriptions will be circulated for your comments

News Update

Named Postdoc nominations due Nov 12

LDRD FY05: Strategic Initiative Recommendations are in to Lab
continuing resolution may delay starts to Jan 05

Hydrogen Proposals to BES: three approved for full proposals
bio-catalysis, electrocatalysis, high energy photolysis

Next BES call: Solar conversion of energy
Workshop April 05, request to OMB summer 05

Pat Dehmer/BESAC: how to capture public imagination for materials?

Argonne Combined Appeal: Fall 04

New hires: see attached summary

Service awards

New Arrivals February-September 2004

Name	Position	Group	Start Date
Sashi Adiga	Postdoc	Molecular Materials	2/04
Rhonda Zezulka	Financial Asst	Administration	2/04
Peter Falus	Postdoc	NXS	2/04
Yew San Hor	Postdoc	Emerging materials	3/04
Julienne Hill	Postdoc	Emerging materials	4/04
Michael Zach	Glenn Seaborg PD	S&M	4/04
Brian Reiss	Postdoc	Molecular materials	4/04
Oleksiy Snezhko	Postdoc	S&M	5/04
Tao Xu	Postdoc	S&M	5/04
Mark Schumann	Co-op Student	Interfacial Materials	6/04
Il-Seok Kim	Postdoc	Interfacial Materials	6/04
Lutfi Ozyuzer	Visiting Scientist	Emerging Materials	6/04 - 9/04
Kristen Buchanan	Postdoc	Magnetic films	6/04
Anand Bhattacharya	Vis Scientist	Magnetic films	7/04

Julia Barzyk	Lab Grad	Surface Chemistry	7/04
Chao Liu	Postdoc	Surface Chemistry	7/04
Jianjiang Liu	Postdoc	Molecular materials	7/04
Toshiyuki Shima	Vis Scientist	Magnetic Films	7/04
Nevin Naguib	Fermi Scholar	Surface Chemistry	7/04
Martin Melhus	Grad Student NU	S&M	7/04
Adam Chenoweth	Grad Student NU	Alloy Oxidation	8/04
Ruey-ven Wang	CNM Postdoc	Interfacial Materials	8/04
Volker Rose	Exchange Student	Magnetic Films	8/04 - 11/04
Prashant Sharma	Postdoc	Cond Mat Theory	9/04
Amelia Liu	Postdoc	EMC	9/04
Qing'an Li	Visiting scientist	Emerging Materials	9/04 - 12/04
Julia Meyer	CNM Fermi Scholar	Cond Mat Theory	9/04
Yuri Galperine	Visiting Scientist	MTI	9/04 - 12/04
Amanda Petford-Long	Faculty Research Participant	EMC	9/04 - 11/04