09/14/2012 UEC Lunch Meeting

Attended by: All 2012 UEC members, Sean Smith, Peter Cummings, Tony Haynes

- Discussion of Intro slides from Sean"*cwcej gf +. They were approved as is.
- Discussion about the adequacy of publication by CNMS staff and users.
 - There are publications by users, by staff and joint publications with both
 - User and staff publication quantities are about equal, joint pubs are about 20% of the total
 - Publications vary from group to group. Macro group is low due to experimental constraints
 - Is there a way or a need to attract users who publish in the same types of journals as the CNMS staff?
 - High impact journals are those with impact factors > 6.
- Sean's discussion:
 - Engagement with industry is being pushed as a priority
 - CNMS has had visits from P&G and Owens Corning
 - DOE nanocenters are developing a new web portal that will be searchable and promote the collection of capabilities to solve problems and market nanocenters to potential users
 - So what make DOE nanocenters special?
 - Compared to Universities user centers the staff support and the tool stability is critical to success.
- Martyn's Town Hall Meeting Notes:
 - There will be
 - Intro slides
 - Standing and new numbers
 - User feedback and survey results
 - Other activities
 - Also discussed:
 - Potential for video conferencing/webcasts
 - Current election status
 - Intro of UEC
 - Open floor discussion

Vision for CNMS: An Outstanding Science Program attracting a Pre-eminent Cohort of Users

Organization, staffing and capabilities dually support the user and science programs

- Discipline-based groups support the users
 - Primary group assigned
 - Multiple groups usually involved
- Scientific themes focused on impact areas
- Maintain and expand capability base
 - Annual capital planning







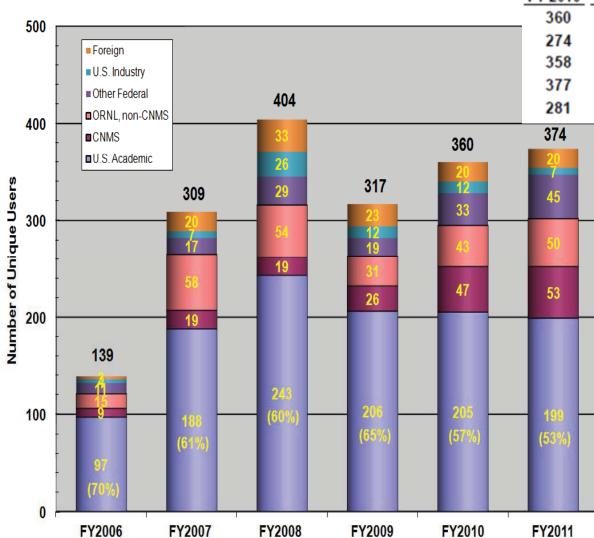
Links with SUFD and ORNL Capabilities

- Neutron Scattering
 - CNMS a primary source of user proposals
 - Enhanced linkage through facility completion
- Electron Microscopy
 - Direct interaction with ShaRE
- Leadership-class computational capabilities
 - Signature Computational Endstation Initiative
 - Direct application to computational nanoscience
 - User access to leadership-class machines



Users at the CNMS

- Majority of users are US Academic, ~55%
- In FY11, 28% came from ORNL, CNMS



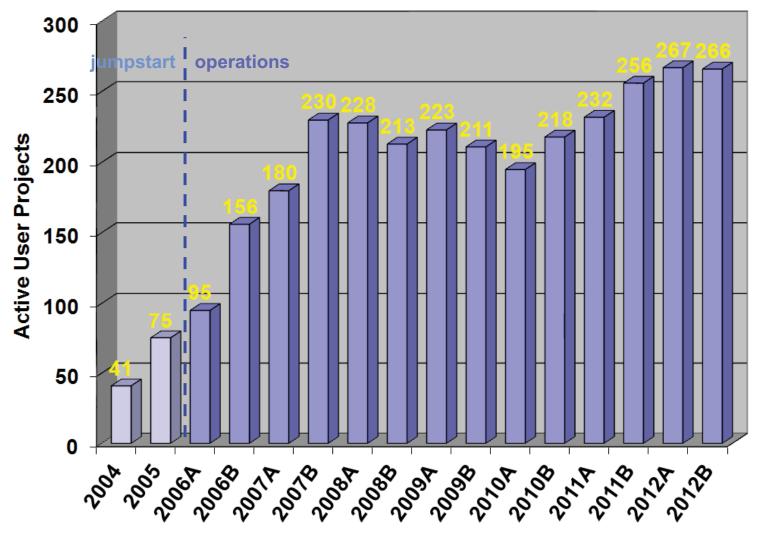
FY 2010 FY 2011 Nanoscale Science Research Centers

- 374 Center for Nanophase Materials Sciences
- 327 Molecular Foundry
- 348 Center for Integrated Nanotechnologies
- 368 Center for Nanoscale Materials***
- 363 Center for Functional Nanomaterials

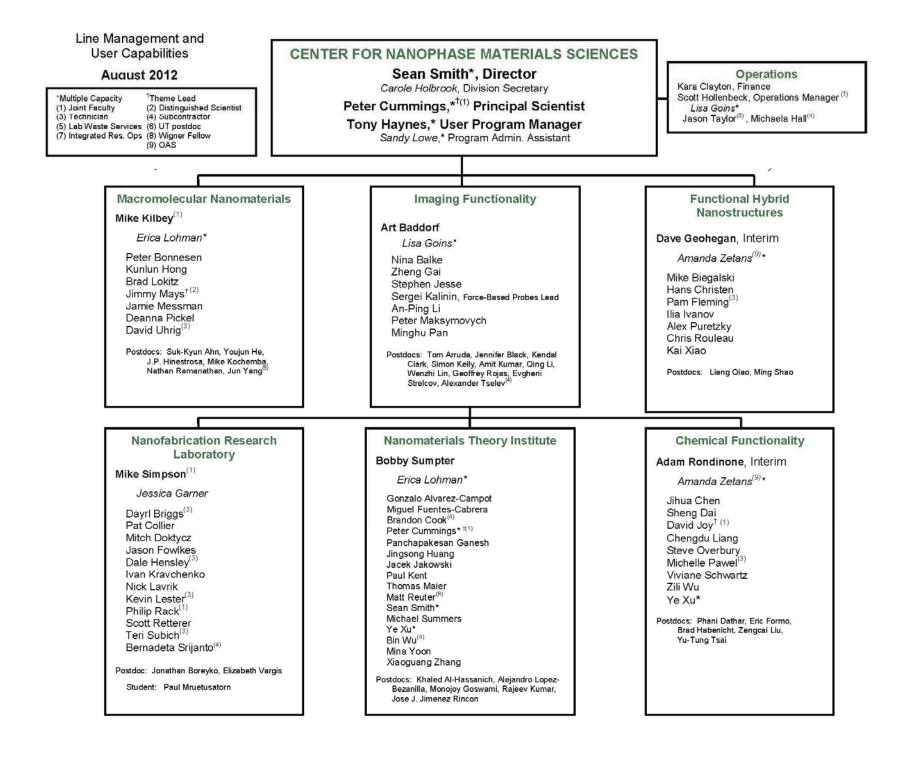
FY12 @ 9 months 344 unique users 54% US Academi 26% from ORNL ·

expecting ~400 us year, similar to FY

Timeline of User Program- Active User Projects



Proposal Call



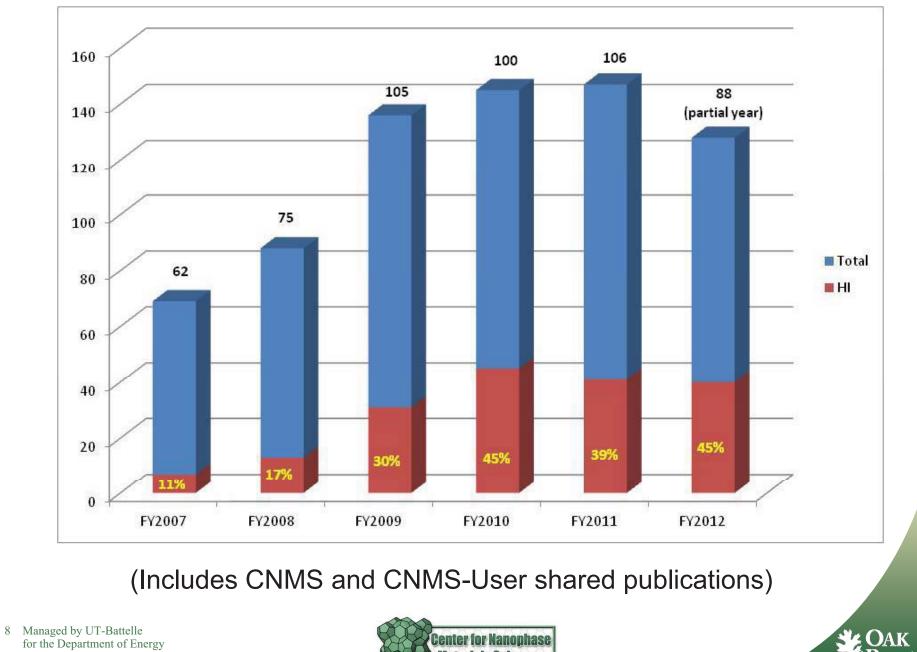
Highlights and Achievements

- User Interactions
 - 374 users in FY11
 - On track for ~400 users in FY12
 - User Executive Committee actively engaged
- High-impact research results
 - Continuing to increase percentage in HI journals
- Successful competitive NSRC equipment proposal:
 He ion microscope \$1.4M (Dr David Joy lead)
- Significant early career awards to Dr Nina Balke and Dr Gonzalo Alvarez (5-Yr; \$0.5M pa)

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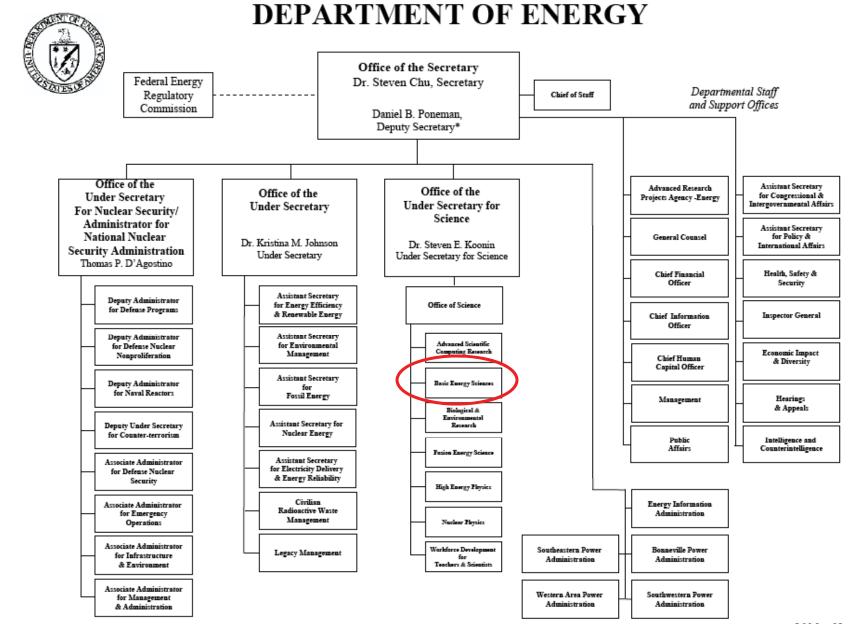








Where are we?

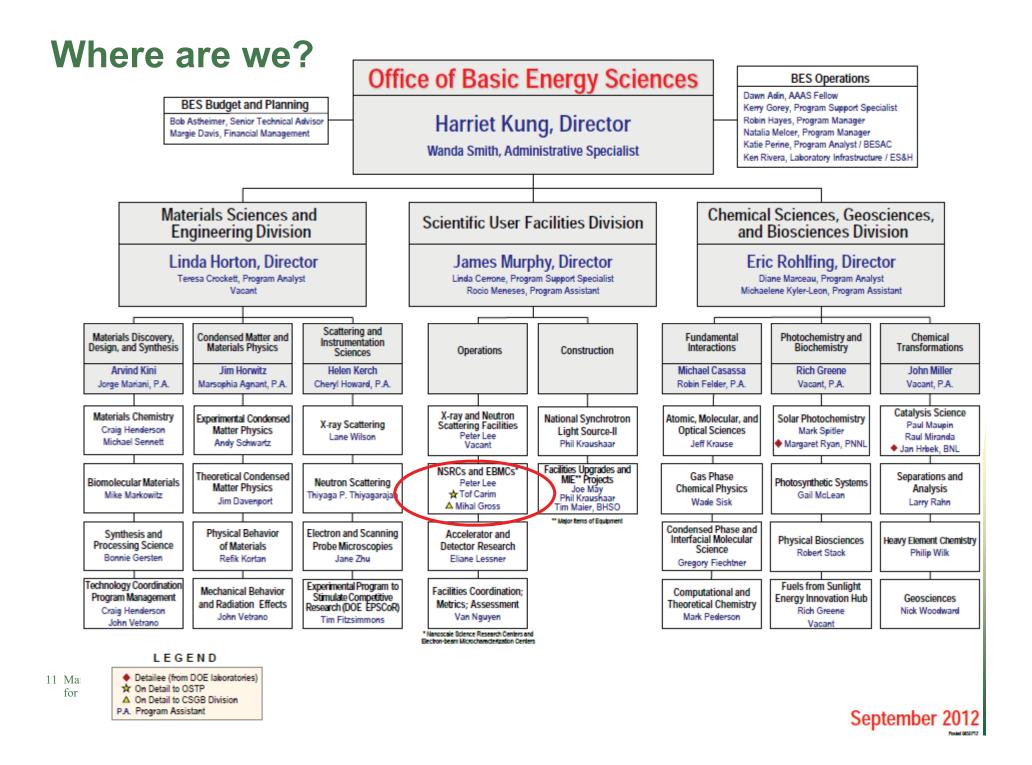


* The Deputy Secretary also serves as the Chief Operating Officer

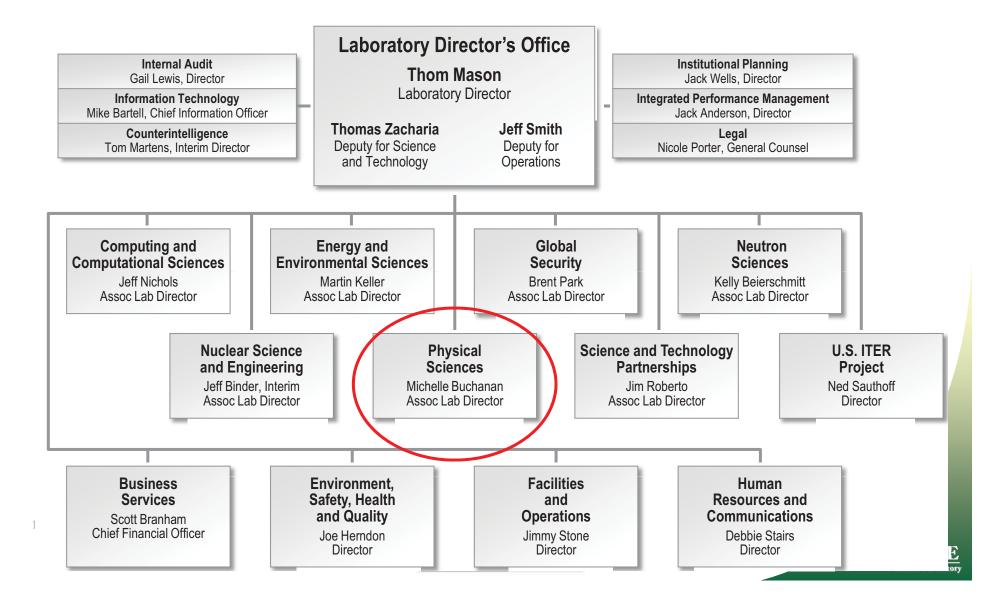
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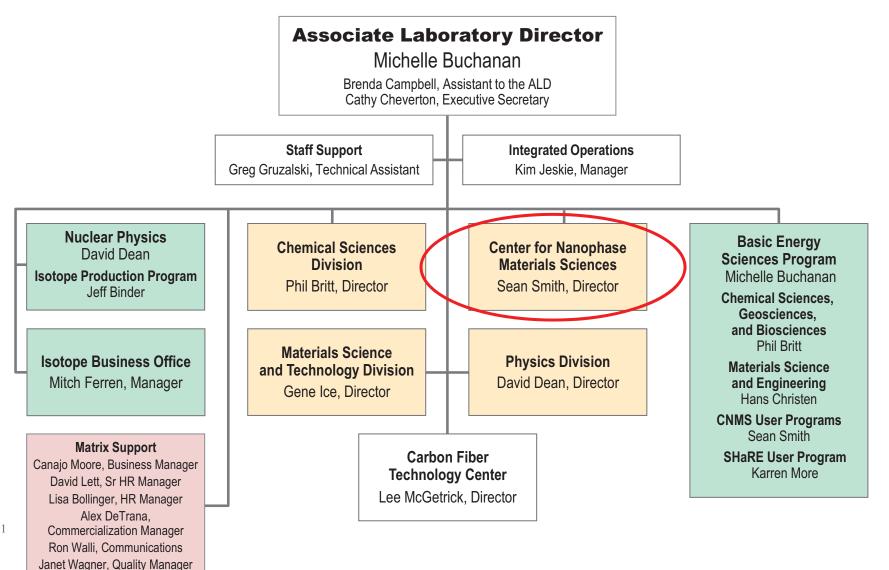


Where are we? Oak Ridge National Laboratory



Where are we?

Physical Sciences Directorate





Consultative Committees

- Advisory Committee
 - Reports to Michelle Buchanan on science program and user program issues
- Users Executive Committee
 - Reports to CNMS Director on issues affecting user program
- Proposal Review Committee
 - External reviewers (~70) of user proposals
- Management Integration Team
 - Coordination group to address integration concerns with other research organizations at ORNL
 - Membership includes:
 - Directors of the Condensed Matter, Chemical Sciences, and Computation Sciences and Mathematics, and SNS Experimental Facilities Divisions
 - Director of the BES Materials and Engineering Physics Program
 - Associate Laboratory Director for the Physical Sciences (other ALDs as required)

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 Need to bring out more clearly the crosscenter & cross-lab synergies and collaborations in our presentation of the research themes.

• Multiscale Functionality of Nanostructures still a bit broad.

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