

## **2011 CNMS User Group Business Meeting**

**September 19, 2011 4:15P, Iran Thomas Auditorium, SNS**

Meeting convened at 4:15P

UEC Chair Mark Dadmun presented an update on CNMS and UEC activities during the past year (slides attached).

The Chair's presentation included 5 nominations for the 2012 UEC that had been submitted by email prior to this meeting for four open positions including Vice Chair, Secretary and 2 at-large members.

The Chair called for more industrial participation in the UEC.

Haynes questioned the assembled users ... "what are the barriers for industrial users use of the facilities?" Haynes asserted that industrial voice and input is critical to the mission and life of the CNMS. Haynes stated that the UEC could put a referendum on the ballot for the user community to decide if we should require an industrial representative on the UEC.

Nominations were accepted from the floor as follows:

- Rafael Verduzco nominated by Marco Nardelli for at-large member, and seconded by Martyn McLachlan
- Milan Buncick self-nominated for Secretary, and seconded by Lloyd Davis.
- Tony Hmelo nominated by Martyn McLachlan for Vice-Chair, and seconded by David Bucknall.

Candidate statements will be collected from all candidates for the ballot and online election to be conducted in October.

The Chair emphasized the importance of participating in the User Survey as an opportunity to call for specific workshops/symposia of interest, as well as to suggest new instruments and capabilities that users would like to see at the CNMS.

The Chair called for discussion of the content of the User Survey, but there were no questions from the assembled users.

With nothing left to discuss, there was a motion to adjourn, which was seconded.

Adjourned at 5P

# The CNMS User “Town Hall” Meeting

**Mark Dadmun,**  
Chair, CNMS Users Executive Committee  
University of Tennessee

**Vice-Chair:** Martyn McLachlan (Imperial College, London)

**Secretary:** Tony Hmelo (Vanderbilt University)

**At-Large Members:**

Michael Hickner (Pennsylvania State)

David Bucknall (Georgia Tech)

Colin Wolden (Colorado School of Mines)

Ronald L. Jones (NIST)

Vivek Prabhu (NIST)

Marco Nardelli (NC State)

Nina Balke (ORNL/CNMS)

**Past Chair, ex officio member:**

Venkat Gopalan (Pennsylvania State)

# CNMS Business Meeting, September 19, 2011

- Update on CNMS facts
- Nominations for 2012 UEC
- Open Discussion
  - User Survey Feedback
  - Suggestions from the floor



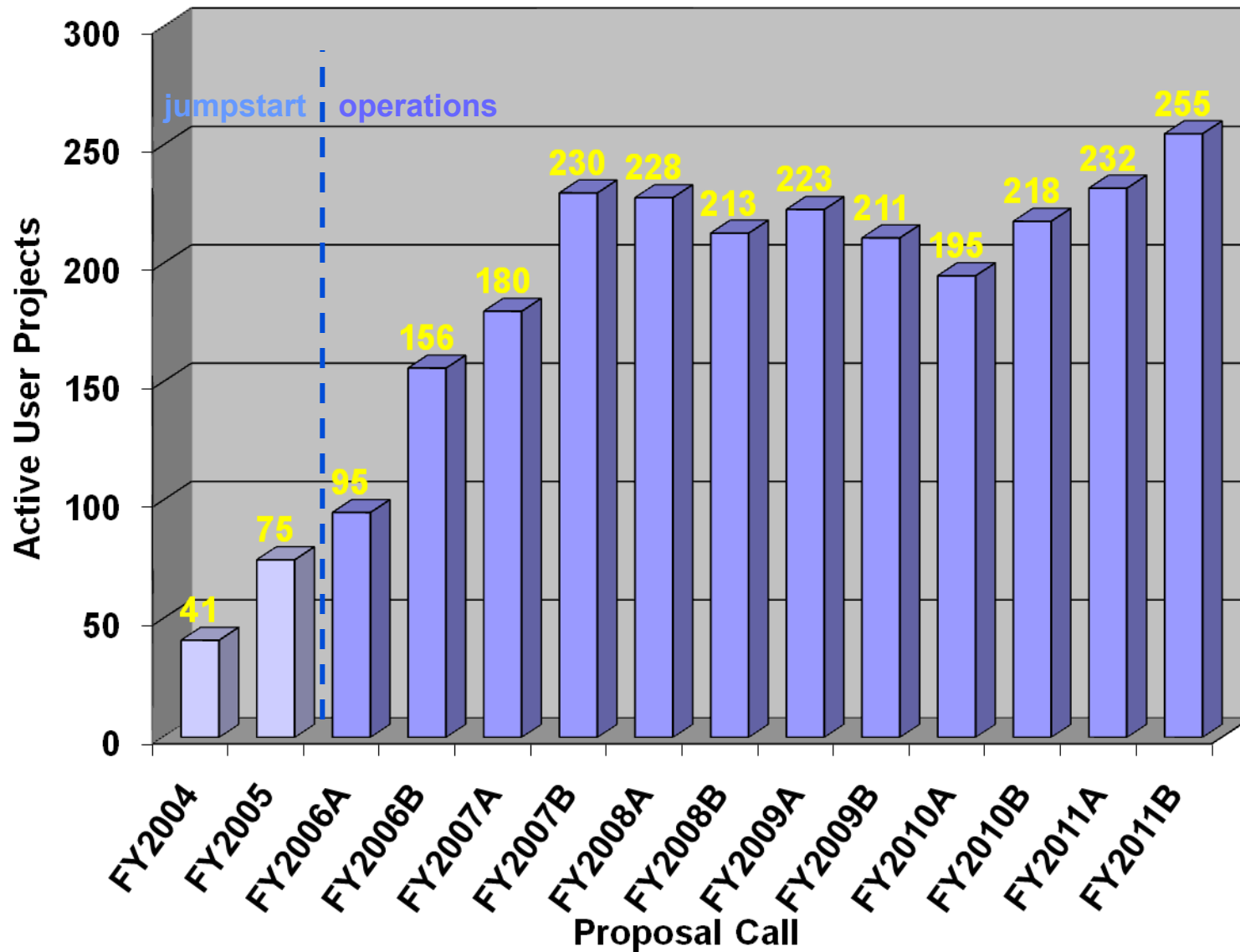
# Vision for CNMS

- User-driven, user-supported research
  - Focus in soft nanomaterials, unique synthesis-characterization capabilities, computational nanoscience
    - New staff in Chemical Functionality
    - New capabilities for electron microscopy, SAXS
    - New (and replacement) staff in NTI
  - Highlight group structure for user capabilities
- Pursue highest-impact research
  - Encourage “outside the envelope” thrusts
  - Identify and remediate “shortfall” areas
- Broaden community awareness



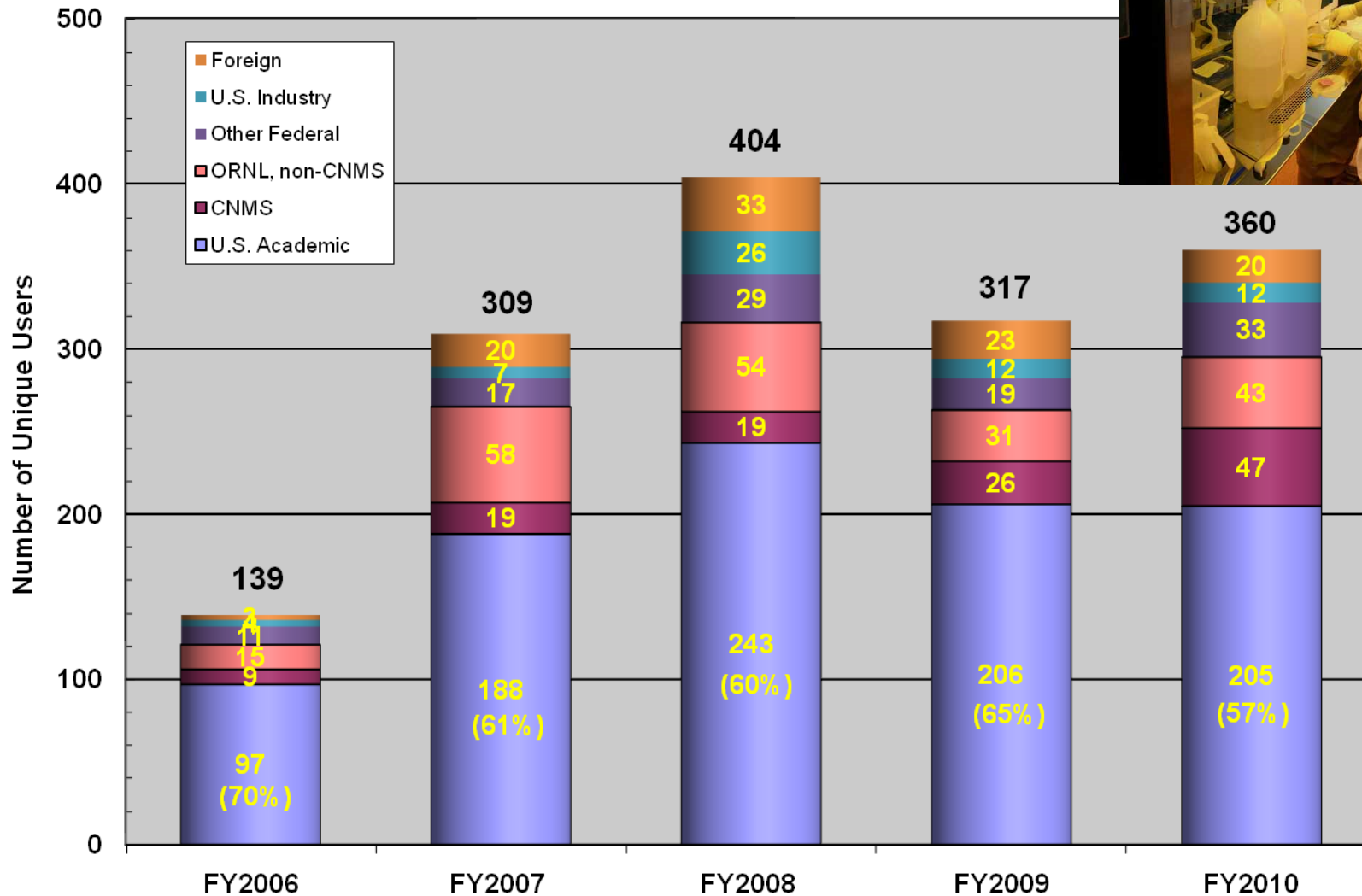
# Timeline of User Program- Active User Projects

- Sustained level of ~210 active user projects since 2007
- Most recent trend indicates increase



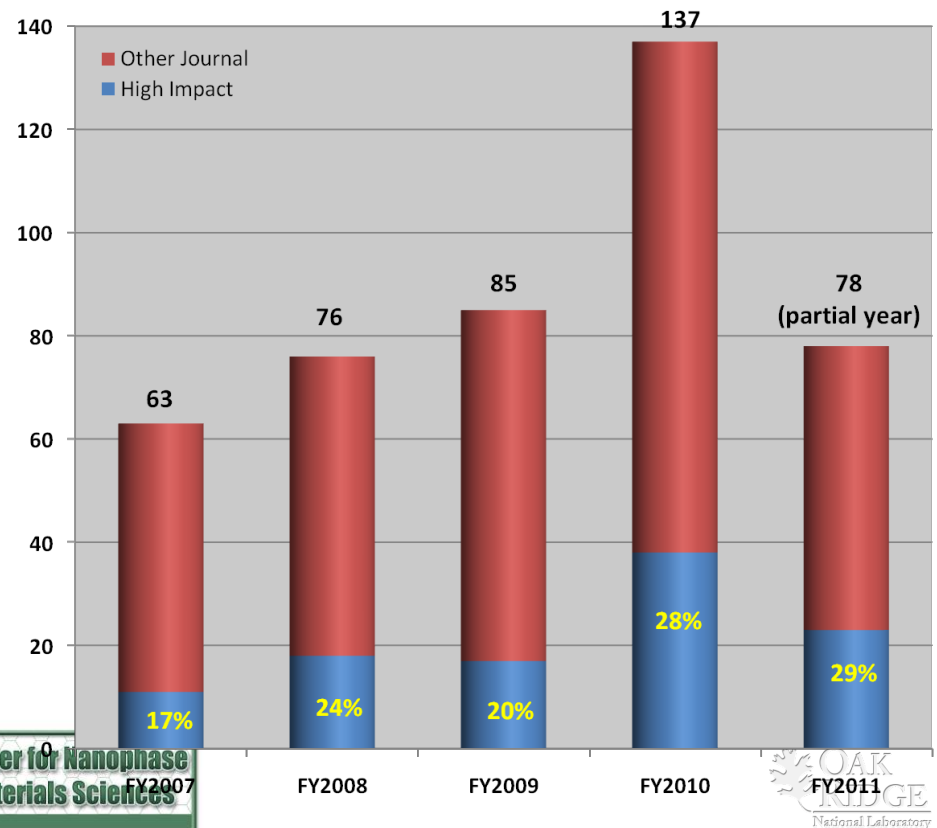
# Users at the CNMS

- Majority of users are US Academic, ~60%
- In FY10, 25% came from ORNL, including CNMS



# User Program Publications

- Publication data is collected with annual user survey in October for the preceding Fiscal Year
- FY2010 User Publications (excludes Theme publications):
  - 137 papers in refereed journals, including 38 in “high-impact” journals (impact factor > 5)
  - Fraction in high-impact journals increasing in FY10-11
- Publication list on CNMS website, with links to journals





# New Instruments

## ARRA Capital Equipment:

- LIBRA TEM – Available
- SAXS – Available
- OIC clusters – Available
- UHV Bridge Chamber for Four Probe STM – available
- Rapid Thermal Processor - Available
- PVD tool – Installed/Testing

## On Order:

- Temperature Gradient Interaction Chromatography Instrumental System
- Quantax 200 S-ray Spectrometer
- Ferroelectric tester with MHz capability
- Laminar Flow Hood
- Microwave Plasma Asher
- *He ion microscope*
- *Ultra STEM (SHaRE)*



## User Feedback

- Annual survey based on questions defined by DOE
  - Satisfaction Survey is conducted annually in August-September
- User satisfaction is evaluated by 4 key questions
  - >90% of respondents are Very Satisfied or Satisfied
  - FY2010: two respondents marked Dissatisfied but did not comment

	FY2007	FY2008	FY2009	FY2010
Response rate (# responding / # who received survey)	27% (309 users polled)	43% (317 users polled)	36% (248 users polled)	33% (325 users polled)
<b>Very Satisfied or Satisfied ☺</b>				
Question 1: fraction of year facility operates	96%	86%	92%	95%
Question 2: on-schedule delivery, minimum downtime	89%	83%	89%	92%
Question 3: performance close to specifications	85%	84%	93%	91%
Question 4: support by facility staff	95%	89%	91%	94%
<b>Dissatisfied or Very Dissatisfied ☹</b>				
Question 1: fraction of year facility operates	0.0%	2.9%	0%	0%
Question 2: on-schedule delivery, minimum downtime	1.2%	2.2%	1.1%	2%
Question 3: performance close to specifications	1.2%	2.9%	0%	0%
Question 4: support by facility staff	0.0%	1.5%	1.1%	2%

Most common suggestions: extending hours, easier scheduling

- Selected comments from 2010 survey:
  - “a tremendous asset to the scientific community”
  - “Once again ... exceeded my expectations!”
  - “excellent facility with unique capabilities and great people”
  - “Everything in the facility is well run and accessible”



# UEC Goals to Help CNMS

- User community engagement
  - Feedback users might not tell CNMS...
  - Interactions with “nontraditional” users
- Enable Next-generation capabilities
  - Suggestions for workshops/symposia
  - Suggestions for instruments/capabilities
- Impact of activities
  - Encourage reporting of user publications
  - Let CNMS know about awards, success stories
- “Conscience” for user program – “enhancements”

*Help make CNMS a place you'd recommend for collaborations and careers*



# 2011 UEC Accomplishments

~ Monthly UEC Telecons

UEC Newsletter (3 issues: January, April and August 2011)

- Increase in frequency

Implemented transition to 2-year terms

NUFO User Science Exhibition April 7

Users Meeting

Users Feedback / Online Survey and Personal Enquiries





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## User Group and User Executive Committee - Meeting Minutes

<b>CNMS User Group Business Meetings</b> <i>held during the annual User Meeting and open to all</i>	<b>User Executive Committee Meetings</b> <i>periodic meetings of the UEC and invited guests</i>
<a href="#">September 14, 2010</a>	<a href="#">September 13, 2010</a>
<a href="#">September 17, 2009</a>	<a href="#">September 17, 2009</a> (joint with SHUG)
<a href="#">September 25, 2008</a>	<a href="#">September 26, 2008</a>
<a href="#">October 11, 2007</a>	

### UEC Conference Calls

<i>Next conference call: October 4, 2011</i>
<a href="#">September 8, 2011</a>
<a href="#">August 10, 2011</a>
<a href="#">May 4, 2011</a>
<a href="#">April 6, 2011</a>
<a href="#">March 2, 2011</a>
<a href="#">February 2, 2011</a>
<a href="#">January 7, 2011</a>
<a href="#">Archived Meeting Minutes</a>

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<http://www.cnms.ornl.gov/uec/minutes.shtml>



[http://www.cnms.ornl.gov/uec/Newsletter\\_082011/index.shtml](http://www.cnms.ornl.gov/uec/Newsletter_082011/index.shtml)

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## User Newsletter - August 2011



We encourage [feedback](#) and suggestions for the content of future newsletters.

**REMINDER!** Registration deadline is August 31 for the 2011 User Meeting! See [CNMS Events](#) for more information.

### About CNMS

The [Center for Nanophase Materials Sciences](#) is an Office of Science User Facility operated for the U.S. Department of Energy by Oak Ridge National Laboratory



# Nominations for 2012 UEC

- **Vice Chair / Chair-Elect**
  - Andrei Kholkin (U. Aveiro, Portugal)
- **Secretary**
  -
- **At Large (2 positions)**
  - Nazanin Bassiri-Gharb (Georgia Tech)
  - Mike Hickner (Penn State)
  - Jeff Rimer (U. Houston)
  - Takeuchi Ichiro (U. Maryland)
- **Awaiting a Second for the Nomination**
  -

# 2012 UEC

- **UEC Recommends the formation of an Industrial Member position on UEC**
  - Biennially, one position on the UEC will be contested solely among Industrial participants
  - Specific Implementation of election will be developed by CNMS Executive Committee
  - Will require change to by-laws and vote in up coming election



[http://www.surveymonkey.com/s/CNMS\\_Survey](http://www.surveymonkey.com/s/CNMS_Survey)

## ***CNMS Community Survey***

Exit this survey

**Answer as few or as many questions as you like.**

1. Are there areas of specific **scientific expertise or equipment** that you would like to see strengthened or added at the CNMS? If so, please list.

2 (a). Currently, **CNMS proposal calls** are twice a year, specifically with proposal deadlines in early May and mid-October. Based on your schedule of annual conferences, academic calendars, proposal cycles, and other annual obligations, are these time periods optimal?

Yes

No

## User Survey

- Annually implemented (Late Spring)
  - Open 8-10 weeks
  - Analyze for User meeting
- Additional questions?

*Please Respond – Minimal Time investment*

