

08/14/2013 CNMS User Group Town Hall meeting notes

Open meeting held in Rooms 202A/B/C of ORNL Conference Center

Convened 12:30pm

Note: Slides presented at the meeting are attached following p.2.

1. Tony Hmelo, UEC Chair, opened the meeting and introduced the UEC members to the audience.
2. Tony provided an update on UEC activities in 2013 that covered:
 - a. Role of the UEC: We are the link between users and management and influence CNMS activities.
 - b. Telecons: The minutes are archived and available
 - c. The newsletter
 - d. The 2013 joint CNMS-SHUG user meeting
 - e. The user survey
 - f. NUFO Capital Hill: The meeting this year was much better than last year's meeting. Tony Hmelo, Vivek Prabhu and Molly Kennedy attended to represent the CNMS. They visited 8 congressional offices. The expo was very well attended with 8-10 congressmen visiting and several gave speeches.
 - g. User numbers and publications: proposals and publications increasing each year.
 - h. User proposals
 - i. Active user projects
 - j. Emerging issues: Integration of the SHaRE facility in FY2014, SHaRE capabilities integrated in the next proposal call, SHaRE proposal reviewers invited to participate
3. Nominations for the UEC 2013/2014: We discussed the nomination and election process and discussed the current slate of nominees. There are two for vice chair, one for secretary and eight for three open at-large positions. There were no new nominations from the floor. SHaRE users agreed to discuss a nominee and submit a name and second by the deadline. Further nominations are open until 18:00 today. [*Update by TEH: four additional ShaRE users were nominated and seconded by email for At-Large seats during the afternoon of Aug 14.*]
4. Open Discussion:
 - a. The 2013 User Meeting Comments and Suggestions:
 - i. The combined meeting worked well together
 - ii. The posters got lost in the schedule. There should be a designated time slot for poster authors to be at their posters to discuss their research.
 - iii. The Town Hall meeting should be at a different time than lunch. Perhaps it could be at the beginning of the day.
 - iv. This Town Hall Meeting followed three neutron talks and perhaps the meeting should be held either before or after some nano talks to attract more meeting attendees.
 - v. The User Meeting has been in a great venue and was well organized.
 - vi. Did anyone miss the Ridgedance event this year?

- vii. Having the meeting at the conference center isolates the attendees from the CNMS scientists who don't attend the meeting. But having the meeting at the conference center allows three parallel sessions in three large adjacent rooms.
 - viii. Providing food as part of a meeting increases attendance but it increases cost. A no-fee meeting has better attendance overall. Better attendance was also influenced by the high quality of the plenary speakers.
 - ix. Tony recognized Vivek and Molly for their participation in the organization of the user meeting.
 - x. A joint meeting is a great idea because it informs participants about other capabilities and resources in the CNMS and the SNS.
- b. Other topics from the floor:
- i. The proposal process should include information about each facility.
 - ii. Each facility should know when users are at the other facility so that there is the opportunity for interaction.
 - iii. The SNS user proposal should include information about capabilities at the CNMS. It should also provide the ability to request time at the CNMS as part of the SNS proposal.
 - iv. Links to CNMS information should be added to the SNS proposal forms. These links should sell what the CNMS can do.

5. Adjourned ~12:55 pm.



CNMS User Group Town Hall Meeting

August 14, 2013

Anthony B Hmelo

Vanderbilt University

2013 User Executive Committee Chair

Agenda

- **Introduction of 2013 UEC Members**
- **CNMS Status Update**
- **UEC Activities in 2013**
 - **Monthly Telecon**
 - **Newsletter**
 - **User meeting**
 - **User feedback**
 - **NUFO meeting on Capitol Hill**
 - **UEC Election Process**
 - **Nominations from the floor for 2014 UEC**
- **Open Discussion**
 - **Other issues of interest to users?**

2013 UEC Members

Chair	Anthony Hmelo	(Vanderbilt University)
Vice-Chair:	Vivek Prabhu	(NIST)
Secretary:	Milan Buncick	(AEgis Technologies Group)

At-Large Members:

Nina Balke	(ORNL/CNMS)
Molly Kennedy	(Clemson University)
Megan Robertson	(University of Houston)
Rafael Verduzco	(Rice University)
Nazanin Bassiri-Gharb	(Georgia Tech)
Michael Hickner	(Penn State)
Ichiro Takeuchi	(U. Maryland)

Past Chair, ex officio member:

Martyn McLachlan	(Imperial College, London)
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Role of the UEC

The purpose of the UEC is to provide a formal and direct channel for the exchange of information and advice between the management of the CNMS and the investigators who perform experimental and computational nanoscience-focused research at the CNMS.

The UEC will also serve as an advocacy group for the experimental and computational nanoscience-focused research activities at the CNMS.



UEC Activities

- **Monthly Telecons**
 - <http://cnms.ornl.gov/uec/minutes.shtm>
- **User Newsletters**
 - <http://www.cnms.ornl.gov/uec/newsletters.shtm>
- **Organization of the User Meeting**
- **Gather and analyze User Feedback**
- **NUFO Meeting June 25-26**
- **UEC Elections**



Monthly Teleconference & Meeting Minutes

CNMS USER NEWSLETTERS User Group and User Executive Committee - Meeting Minutes	
CNMS User Group Business Meetings <i>held during the annual User Meeting and open to all</i>	User Executive Committee Meetings <i>periodic meetings of the UEC and invited guests</i>
August 1, 2013 September 14, 2012 September 19, 2011 September 14, 2010 September 17, 2009 September 25, 2008 October 11, 2007	September 14, 2012 September 19, 2011 September 13, 2010 September 17, 2009 (joint with SHUG) September 26, 2008
UEC Conference Calls	
<i>Next conference call: TBD</i>	
August 1, 2013 July 9, 2013 June 6, 2013 May 2, 2013	April 4, 2013 March 7, 2013 February 7, 2013 January 9, 2013
<i>Archived Meeting Minutes</i>	

<http://cnms.ornl.gov/uec/minutes.shtm>



Newsletter

April 2013 CNMS User Newsletter <http://cnms.ornl.gov/>

Visit CNMS on Facebook!

Important Dates:

- Call for User Proposals: deadline is May 1
- ORNL User Week: Aug. 12-16, 2013



We encourage feedback and suggestions for the content of future newsletters. We are especially interested in receiving research highlights from CNMS users that may be featured in future issues of this newsletter. Please email us any time you have an important paper that is accepted for publication.

REMINDER! Proposal deadline is May 1 for new user projects that will start August 1.

Message from the UEC Chair

Anthony Hmelo, Vanderbilt University



University, government and industry scientists from around the world travel to ORNL to leverage the astounding array of equipment, facilities and expertise that makes the CNMS a leading center of excellence in nanoscience research. During my tenure on the User Executive Committee (UEC) since 2008 I have witnessed a breathtaking evolution of CNMS capabilities. As this year's UEC Chair I am delighted to welcome prospective and current users of the CNMS to the current edition of our user newsletter, one of our primary means of communicating the important news, information and announcements of interest to our community.

The elected members of the UEC serve as your representatives in monthly conference calls with CNMS management where we discuss ways to improve your user experience. I encourage each of you to contact any member of the UEC with your ideas and suggestions so your voice may be heard. The minutes of our conference calls are openly available and archived for your reference on the CNMS web site. In addition I encourage everyone to make use of the CNMS Community Survey tool, also on the website which is always available for your use.

The UEC participates in planning our annual user meeting that showcases the exciting results and accomplishments we have achieved using CNMS resources. I encourage everyone to attend this year's CNMS User Meeting during ORNL User Week in August.

Finally, we each have a vested interest in the success of the CNMS and this depends on the quality of the research that is performed here. I bring to everyone's attention the open proposal call that is in progress with a submission deadline of May 1.

May this be a productive year and I look forward to seeing you around the CNMS!

-Tony

Inside this issue:

- UEC Chair Message 1
- 2013 UEC 2
- Proposal Call 2
- News from CNMS 3
- Research Highlights and Spotlights 6
- CNMS Hours and Awards 7

<http://www.cnms.ornl.gov/uec/newsletters.shtm>



2013 User Meeting Planning



Center for Nanophase Materials Sciences (CNMS) - Brookhaven
7/16/12 1:08 PM

Neutrons and Nano Workshops and User Meetings



Oak Ridge National Laboratory
ORNL Conference Center, Bldg. 5206
Tennessee Rm. 202A/NC
August 12-15, 2013

The Executive Committees of the SNS-IFR User Group (DRUG) and the Center for Nanophase Materials Sciences (CNMS) User Group are organizing a combined two-day 2013 User Meeting (bracketed by related User Workshops at Oak Ridge National Laboratory during August 12 - 15, 2013). Together, the nano and neutron user facilities, along with related resources at Oak Ridge, support the research efforts of thousands of users annually from across the U.S., North America, and locations around the world.

The Science of Neutron and Nano Facilities Sessions on Tuesday and Wednesday, August 13 and 14, will focus on "Science at User Facilities: Complementary Techniques." These sessions will present research at user facilities in different science areas with the anticipated outcome to show the resources enabled by and/or complementary nature of resources at user facilities such as CNMS, IFR, SNS, and other national resources including microscopy and high-performance computing.

The User Workshops on Monday and Thursday, August 12 and 15, 2013 will focus on "New Techniques, New Users, and Enhancing the User Experience." These workshops will be of interest to new users as they will showcase the current resources, inform prospective users of future resources, and provide opportunities for registration of other needs to further the common scientific mission.

The user meeting website contains the agenda and registration details. A single registration form is provided for convenience. There is no charge to attend these meetings.

Co-chairs of the Organizing Committee:
Greg Beaucage, University of Cincinnati
Tony Hmelo, Vanderbilt University

A combination of workshops and breakout sessions are being planned with both plenary and invited talks from users and ORNL staff experts. Speakers include:

<http://www.cnms.ornl.gov/newsletters/2013/announcement.php>

Page 1 of 2

August 9, 2013

New Techniques, New Users, and Enhancing the User Experience

Monday, August 12, 2013, ORNL Conference Center, Room 202A-C

- 8:00 am Registration opens
- 9:00 am - 12:30 pm Workshops I-II (Breaks to be determined by Moderator)
- Workshop I: Materials, Neutrons and You: What can you do together? (Moderator: Greg Lind-Kiwa)**
Room 202A
- Yong Ren, Argonne, Probing battery materials with synchrotrons and neutrons
 - Michel Barabou, Drexel, in situ Neutron Diffraction Evidence for Incident Kink Band in the MXC Phase
 - Stephen Wilson, Boston College, Harnessing neutron diffraction as a decisive tool in an experimental general Kinetics and Diffraction
 - Aofu Hua, ORNL, Instrument of the Chemical and Materials Engineering Division
 - Andrew Pascoe, ORNL, Engineering Diffraction
 - Bryan Chakoumakis, ORNL, Quantum Condensed Matter - Structure of Materials Instruments
 - Victor Urban, ORNL, Biology and Life Sciences Instruments
- Workshop II: Industrial Participation at ORNL (Moderator: Mike Simons), Continued in Workshop II.**
Room 202B
- Greg Smith, ORNL, and Karsten Voigt, Univ. Cincinnati
 - Mike Crawford, DuPont
 - David Jacobson, NIST
 - David Longino, DuPont
- Workshop III: Experimental Facilities A (Moderator: Malcolm Guthrie), Continued in Workshop II.**
Room 202C
- 8:00 am: Mark Lagaris, ORNL/DSD Sample Environment Overview
 - Chris Redden, ORNL, WFF Sample Environment Overview
 - Garrett Grasselli, ORNL, High Magnetic Fields and Neutron Scattering: A Current Status and Prospects for the Future
 - Steve
 - Rick Weber, Materials Development, Inc., Using synchrotron radiation for in-situ studies of high temperature fluids and gases
 - Nick Moore, Washington Univ., The neutron electrostatic levitator - probing equilibrium and deeply supercooled fluids
 - Lián He, ORNL, SANS Facilities
 - Antonio de Santis, ORNL, Neutron High-Pressure Technology
- 12:30 - 2:00 pm Lunch on your own

Co-chairs of the Organizing Committee:

Greg Beaucage, University of Cincinnati
Tony Hmelo, Vanderbilt University



User Feedback

4C. User Questionnaire

All BES user facilities are required to survey their users at least annually using a prescribed set of ten questions designed to gauge user satisfaction with facility operations and performance, and to track trends in users' publication plans and perceptions of derived benefit. The CNMS distributes the survey to its users annually in September as part of its preparation for the annual facility report, which is due in October. The survey is conducted using a web-based form and administered via a third-party provider (surveymonkey.com) that permits distribution of the survey and targeted reminders while assuring anonymity of respondents. Responses to the survey questions on user satisfaction, questions 1-4, are summarized in Table 4.C.1 for FY2010-FY2012. Section 6 of this review document contains a more detailed summary of the survey questions and comments for each of the three years as submitted in the annual facility reports. The CNMS User Executive Committee has provided its independent assessment of the survey results in the following section of this report.

Table 4.C.1: Summary of User Satisfaction Surveys

	FY2010	FY2011	FY2012
Response rate	33% of 325 users polled	38% of 316 users polled	37% of 348 users polled
Very Satisfied or Satisfied ☺			
Question 1: fraction of year facility operates	95%	94%	98%
Question 2: on-schedule delivery	92%	94%	95%
Question 3: performance close to specifications	91%	93%	95%
Question 4: support by facility staff	93%	95%	97%
Dissatisfied or Very Dissatisfied ☹			
Question 1: fraction of year facility operates	0.0%	1.6% ⁽¹⁾	0.0%
Question 2: on-schedule delivery	1.9% ⁽¹⁾	2.5% ⁽²⁾	1.5% ⁽¹⁾
Question 3: performance close to specifications	0.0%	2.5% ⁽²⁾	1.5% ⁽¹⁾
Question 4: support by facility staff	1.9% ⁽¹⁾	1.6% ⁽¹⁾	0.0%

⁽¹⁾ FY2010- Two individuals accounted for all the 'Dissatisfied' responses but did not provide any explanatory comments.

⁽²⁾ FY2011- Three individuals accounted for all the 'Dissatisfied' responses and explained thus: (a) lack of response by supercomputer service center to requests from external users, and (b) slow response by staff who seemed over-committed.

⁽³⁾ FY2012- Three individuals accounted for all the 'Dissatisfied' responses but did not provide any explanatory comments.

The survey results are very favorable with greater than 90% of respondents being either Satisfied or Very Satisfied in all surveyed areas each year. The overall satisfaction rate, averaged over all survey questions and years is 94%, which indicates an improvement over the previous review period, FY2007-FY2009, when the overall satisfaction was 89%. The annual responses also indicate a continuing gradual improvement during the current review period, as the yearly satisfaction rate trended upward from 93% to 96% between FY2010 and FY2012.

In each year, there were two or three individuals who responded to the survey as Dissatisfied in some way. However, those respondents generally declined to explain the specific circumstances of their dissatisfaction, with three exceptions: (a) one user complained of poor communication from a supercomputer user-support center, and (b) two users complained about slow responses from CNMS staff. The first complaint arose in part from an ORNL policy that prohibits external distribution of automated emails, such as an automated notification that training is about to expire or a user account is about to be closed. In order to mitigate this type of complaint, CNMS administrative staff has begun manually

• Analysis of the Annual User Satisfaction Survey

- 2013 BES Triennial Review
- User Suggestion Box



National User Facility Organisation Exhibition



Vivek Prabhu, Molly Kennedy and Anthony Hmelo

The FUTURE of America is the RESEARCH of TODAY

www.nufo.org info@nufo.org July 25, 2013

NEWS

Congressman Randy Hultgren, Ohio Democrat (R-IL)

"Basic scientific research and our National Labs are the backbone of the innovative nation we all want America to be. Federal commitment to this research is what maintains our place as a truly exceptional nation, and our lab's interaction with our education system and the business community has a compounding effect with our scarce taxpayer dollars. We all know our government must make tough choices when prioritizing our budgetary direction, but the basic scientific research needed for our next great discovery should always be a top American priority." Representative Randy Hultgren (R, IL-14)

2013 User Science Exhibition

Balls suspended in air by sound. New detectors for breast cancer. Ice cut by coins coated with diamond. Roofing shingles that generate electricity.

These were some of the demonstrations seen by members of the U.S. House of Representatives and their staffs during NUFO's Exhibition on Scientific User Facilities on June 26, 2013. The exhibition, sponsored by NUFO at the invitation of the House Science and National Labs Caucus, was held in the Ryburn House Office Building. The attendees learned first hand about the wide-range of research and innovation undertaken at the National User Facilities. They were also able to interact directly with more than 60 users and facility representatives who traveled to Washington to participate in the exhibition.

The exhibition focused on three theme: in research: Energy, Health, and Innovation. In addition to the demonstrations, videos and posters presented examples of the impact of research at user facilities, with a special emphasis on accomplishments by industry. Additional posters described initiatives in science education and the geographic diversity of facility users.

Remarks delivered during the event by Congressman Chaka Fattah and Randy Hultgren, two of the co-Chairs of the Science Caucus, emphasized the importance of

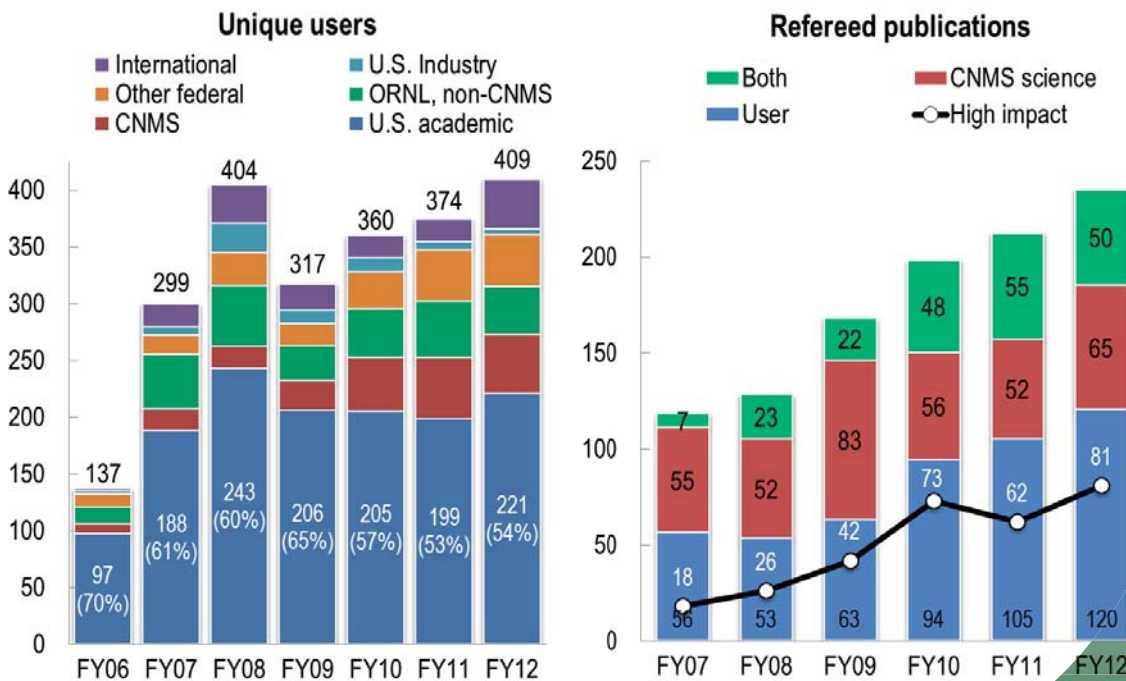


Congressional Offices Visited

- Jeff Duncan (3rd District, South Carolina)- Legislative Correspondent Hilary Ranieri
- Jim Cooper (5th District, Tennessee)- Legislative Assistant Page Krugman
- Chuck Fleischmann (3rd District, Tennessee)- Legislative Director Alek Vey
- Bob Corker (Tennessee)- Legislative Assistant Hunter Bethea
- Lamar Alexander (Tennessee)- Legislative Fellow Kelly Perry
- John Lange, Legislative Assistant to Congressman Robert Hurt, 5th District VA
- Xan Fishman, Legislative Assistant to Congressman John Delany, 6th District MD
- Erika Appel, Legislative Assistant to Congressman Chris Van Hollen, 8th District MD
- Mike Thomas, Legislative Correspondent to Senator Benjamin Cardin, MD

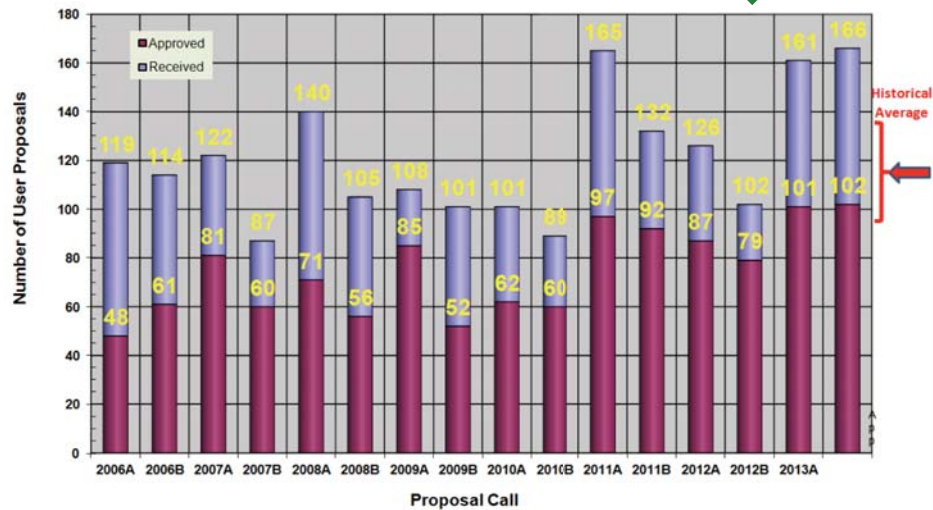


Center for Nanophase Materials Sciences Enabling advances in nanoscience



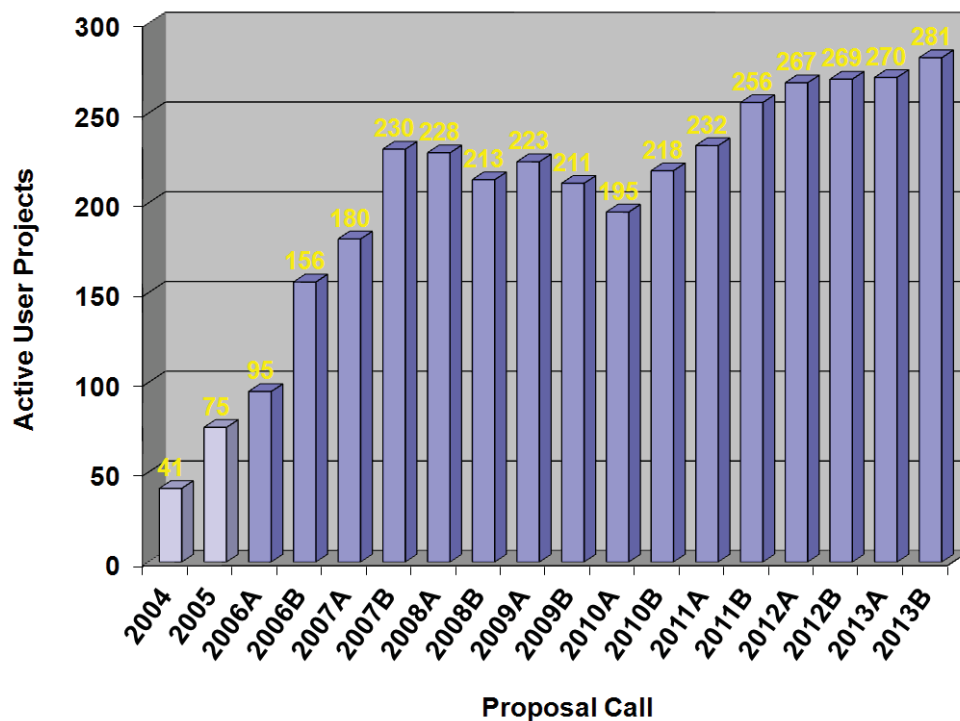
User Program

- Two proposal calls in FY2013: October 2012 and May 2013
 - 327 proposals combined- new record for CNMS
 - 203 approved (62%)- success rate matches historical average



- Additionally, 53 rapid access proposals (October-July, 10 months)

Active Projects from Proposal Calls



User Program – Emerging Issues

- Integration of ShaRE user facility into CNMS in FY2014
 - ShaRE staff will join CNMS Division beginning October 1
 - All ShaRE capabilities will be integrated explicitly into October Call for User Proposals
 - ShaRE proposal reviewers have been invited to join CNMS Proposal Review Comm.



Nominations for 2014 User Executive Committee

Nominee Name	Affiliation	Email	Position (Vice Chair, SEC, GENeral)		Nominator (when/how)	Second (when/how)
			SEC, GENeral			
Bassiri-Gharb, Nazanin	Georgia Tech	nazanin.bassirigharb@me	VC		self, 7/15 emails (2)	Nina Balke, 8/1 UEC teleco
Buncick, Milan	Aegis Technologies Group	mbuncick@aegistg.com	SEC		Nazanin 7/15 email	Tony Hmelo, 8/1 UEC teleco
Jayasekera, Thushari	Southern Illinois University, Carbondale	thushari@siu.edu	GEN		Buongiorno Nardelli, 7/15 email	Dan Dougherty, 7/31 email
Kennedy, Molly	Clemson U.	mskenne@clermson.edu	VC		Hmelo, 8/1 UEC telecon	Megan Robertson, 8/1 UEC
Li, Dawen	U. Alabama	dawenl@eng.ua.edu	GEN		Nazanin 7/15 email	Molly Kennedy, 8/1 UEC tel
Li, Deyu	Vanderbilt U.	deyu.li@Vanderbilt.Edu	GEN		Nazanin 7/15 email	Tony Hmelo, 8/1 UEC teleco
McLachlan, Martyn	Imperial College London	martyn.mclachlan@imperial.ac.uk	GEN		Nazanin 7/15 email	Milan Buncick, 8/1 UEC tele
Neeves, Keith	Colorado School of Mines	kneeves@mines.edu	GEN		Nazanin 7/15 email	Megan Robertson, 8/1 UEC
Gai, Zheng	ORNL/CNMS		GEN		An-Ping Li, 8/12 email	Kravchenko, 8/13 email
Unocic, Ray	ORNL/CNMS (ShaRE)		GEN		Nina Balke, UEC mtg 8/13	Nazanin, UEC mtg 8/13
Nanayakkara, Sanjini	NREL		GEN		self, 8/12 email	Liam Collins, 8/13 email

CANDIDATES BY POSITION

VICE CHAIR (1 to be elected each year)

Bassiri-Gharb, Nazanin	Georgia Tech	nazanin.bassirigharb@me	VC
Kennedy, Molly	Clemson U.	mskenne@clermson.edu	VC

SECRETARY (1 to be elected in 2013)

Buncick, Milan	Aegis Technologies Group	mbuncick@aegistg.com	SEC
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AT-LARGE (3 to be elected in 2013)

Bassiri-Gharb, Nazanin	Georgia Tech	nazanin.bassirigharb@me	VC	
Buncick, Milan	Aegis Technologies Group	mbuncick@aegistg.com	SEC	
Jayasekera, Thushari	Southern Illinois University, Carbondale	thushari@siu.edu	GEN	
Li, Dawen	U. Alabama	dawenl@eng.ua.edu	GEN	
Li, Deyu	Vanderbilt U.	deyu.li@Vanderbilt.Edu	GEN	
McLachlan, Martyn	Imperial College London	martyn.mclachlan@imperial.ac.uk	GEN	
Neeves, Keith	Colorado School of Mines	kneeves@mines.edu	GEN	
Gai, Zheng	ORNL/CNMS		GEN	
Unocic, Ray	ORNL/CNMS (ShaRE)		GEN	
Nanayakkara, Sanjini	NREL		GEN	needing a second



2013 UEC Elections Candidate Nomination Form

CNMS User Executive Committee Candidate Nomination Form

Eligibility

- Any member of the CNMS User Group may nominate candidates or second a nomination.
- You are a member of the User Group if you have been a Principal Investigator on a user project and/or conducted research at CNMS within the past three years. See Registration Desk for a list of members.
- Self-nomination is permitted.

I would like to nominate the following CNMS User Group member(s) to run for election to the 2014 User Executive Committee (UEC).

Please print clearly.

Position on UEC	Nominee Name and Institution
Vice Chair (maximum of one)	
Secretary (maximum of one)	
At-Large Member (maximum of three)	

Who initiated this nomination?

Printed name _____ Signature _____ Date _____

Who seconds this nomination? - required for a valid nomination

Printed name _____ Signature _____ Date _____



Open Discussion

- Opinions on this year's meeting format
- Other issues

