

Update on the APS User Office and the National User Facility Organization

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User Program Manager

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Outline

User Office

- Staff Changes
- User Agreements
- Foreign Visits & Assignments
- Minors at the APS
- Work Day
- Looking Towards the Future

National User Facility Organization (NUFO)

- Annual Meeting
- Science Exhibition in DC
- 2014 AAAS Meeting
- Future Organizational Planning



User Office Changes

On June 1, 2013, **Susan White-DePace** became the APS User Program Manager and **Susan Strasser** became the Senior Advisor, User Programs (50% time). **Connie Vanni** is the Assistant User Program Manager. Major responsibilities of each are below.

Susan White-DePace	Connie Vanni	Susan Strasser
Overall User Program mgt.	Overall User Office mgt.	Scientific Advisory Comm.
Foreign Visits/Assignments	Beam Time Access Program	Beamline/CAT Reviews
User Agreements	Database Management	Policy Issues
PUC	APSUO	Argonne Scientific User Facilities Group
NUFO Executive Administrator	Annual Users Meeting	NUFO Steering Committee



User Agreements (possible issue on the horizon)

- IG visit (not an audit) to ORNL on implementation of user agreements

- Discussions centers around the following statement:

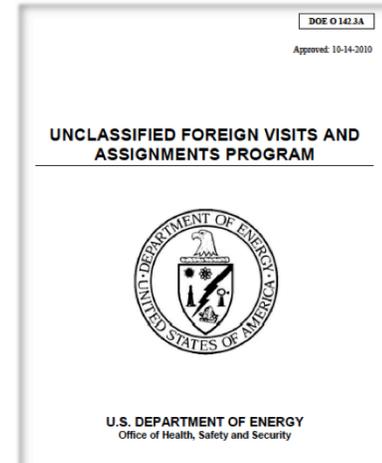
Upon completion or termination of the project, USER agrees to deliver to DOE and CONTRACTOR a nonproprietary report describing the work performed under this Agreement.

- Questions: Could we do this and how? Should we do this or should we/could we push back? Would collecting this data be beneficial?



Foreign Visits & Assignments Processing

- New staff member for APS FVA processing
- Hope to build a working relationship that benefits the users and ensure all safety concerns are met
 - Shared responsibility, protect what needs to be protected, provide easy access for open access areas
- Successes
 - Obtain approval for two foreign nationals last week who did not have their approval before they arrived at ANL
- Failures
 - Scientists born in a T4 country could not conduct his experiment this week



FVA Processing Differences at National Labs

Process	BNL	ANL
Uploading Process	Direct upload from registration system to FACTS	Hand entry from registration system to FAVOR and then upload to FACTS
Immigration Status Documents	Immigration documents not required to upload to FACTS	Immigration documents required before upload to FACTS
SME Approvals	SME approvals only required if guest is accessing a PPA, a classified area, discussions on classified material, or host has security clearance	SME approvals required on all sensitive country foreign nationals



Minors with Access to Experimental Floor

- Exemplary Student Program policy exists
- Minors on tours guidance exists
- No comprehensive written policy and procedures for access to the APS by minors
 - Parental approval
 - Proof of medical insurance
 - Hands-on work versus observation
 - Babies on experimental floor
 - Minors working in LOMs
 - Host responsibilities
 - Consistency in training
 - Documentation



Work Day at ANL

- Human Capital Management and Financial Management System
- Users need to be in the thought process as this system is developed
- Recommend that the APS get involved at the beginning of the process
- Fermilab is also implementing Work Day and would like to develop similar systems for users
- Stay tuned



Planning for the Future

- Flowcharting processes
- Looking at processes and streamlining where possible
- Implementing automation where possible
- Cutting costs, if possible
 - Paperless office
 - PRPs no longer get paper copies of proposals to read
 - Purchasing items for yearly use at annual meeting instead of yearly rentals
- Sharing resources with ANL and possibly Fermilab on projects that will benefit all

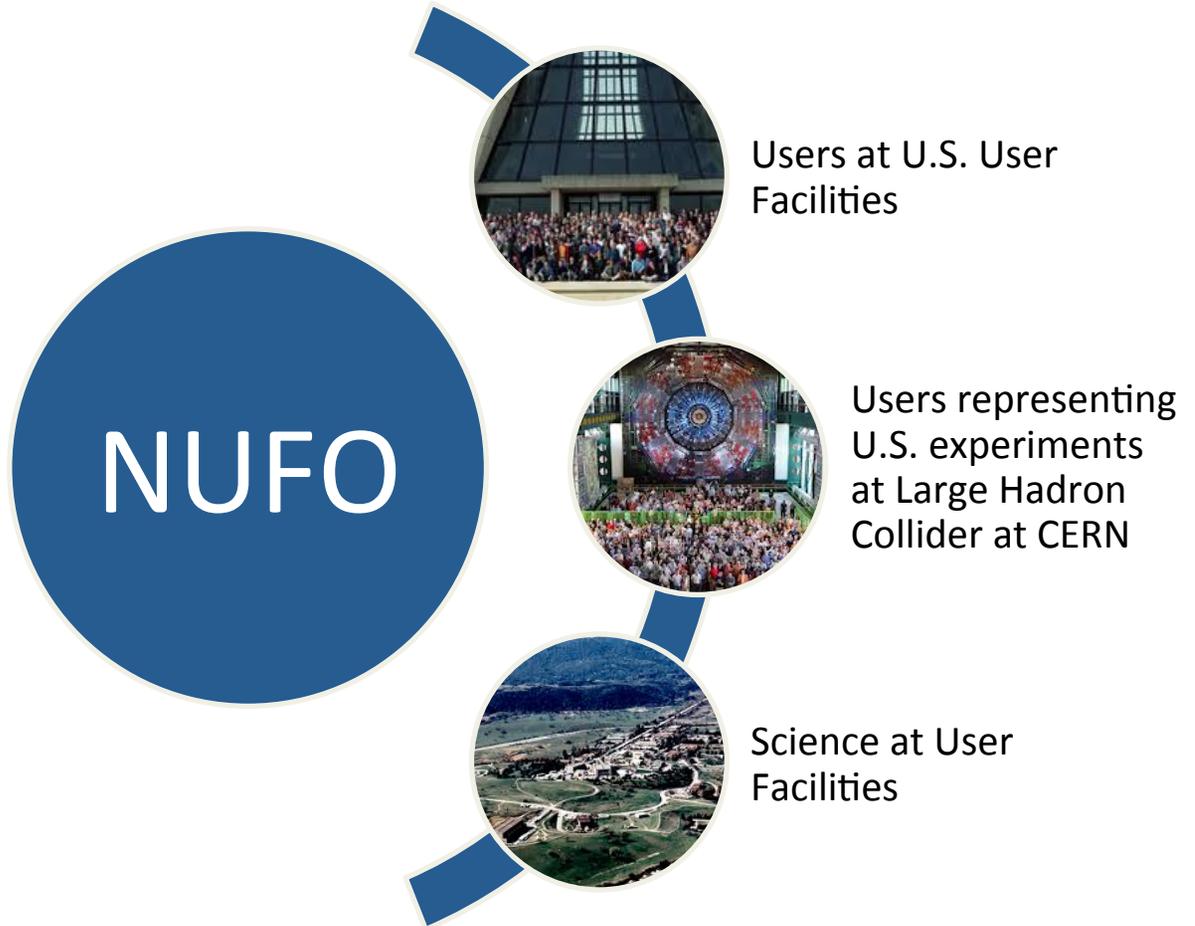




Questions?

National User Facility Organization: NUFO Represents

Federally-funded ***scientists*** who conduct research at U.S. or non-U.S. scientific user facilities.





NUFO is a collaboration between User Representatives (UEC Chairs) and User Administrators (www.nufo.org)

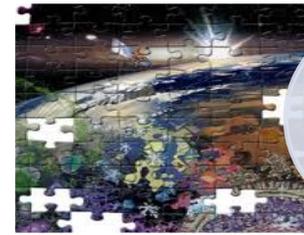
- Steering Committee (3 elected User reps, 3 elected administrative reps, 3 elected general members, 3 appointed individuals)
- Membership (1 User Representative and 1 User Administrator)
- Six Working Groups
- In General
 - User Representatives focus on outreach activities
 - User Administrators focus on streamlining processes to facilitate access
 - Both branches work together closely to fulfill the overall NUFO mission
- Represents > 45,000 users from all 50 , 500 universities, 300 industrial firms, plus national and private research laboratories



Educates and Advocates for User Facilities

Promotes the Four Pillars of Communication:

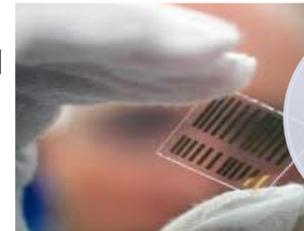
1. User Facilities are the birthplace of fundamental knowledge
 - Top Quark discovery by CDF and DZero experiments at Fermilab in 1995
2. User Facilities are the home of scientific achievements
 - 24 Nobel Prizes from 1939 to now
 - 2012 Nobel Prize in Chemistry for G-protein-coupled receptors (GPCRs) was based in part on research performed at the Argonne National Laboratory
3. User Facilities promote economic competitiveness
 - Industrial research leads to key discoveries, patents, and new technologies
 - Stimulates economic growth
4. User Facilities are the cradle of science education
 - 40% of users are graduate students or postdoctoral students.



Knowledge



Achievements



Economic
Competitive-
ness

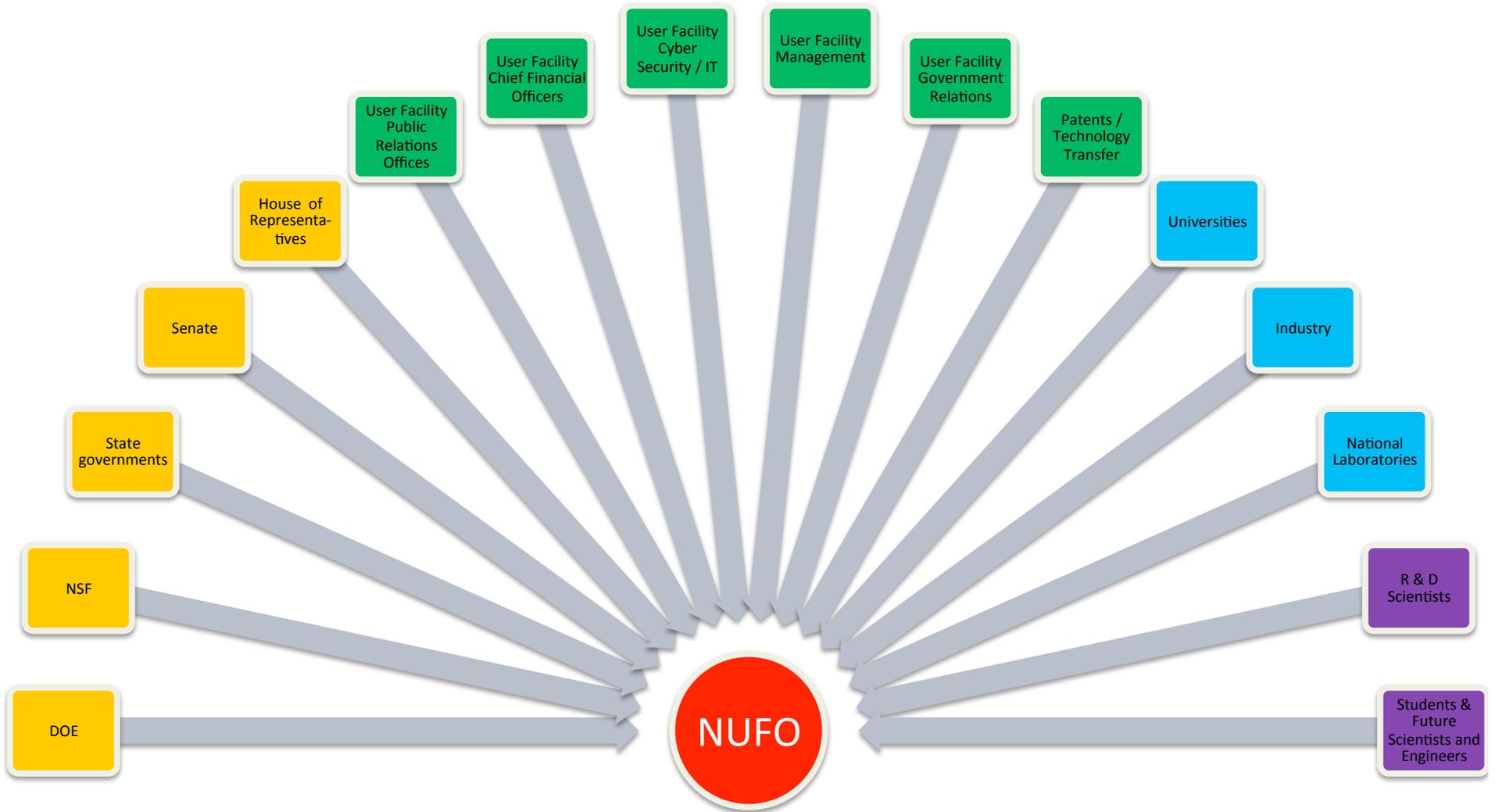


Education



National Voice for Users

46 User Facilities, and Stakeholders at every level of government, industry and in university, find value in NUFO:



NUFO provides a unified message at the national level...

To Congress, Industry, DOE, the Public

- **Congress**
 - Congress invites NUFO to hold yearly exhibitions on Capitol Hill
 - NUFO was invited to testify to Congress about User Facility
- **Industry**
 - NUFO Report led to a BESAC Study
 - BESAC recommended changes that directly track NUFO recommendations
- **DOE/Government**
 - NUFO involvement led to modification of DOE Order 142.3, Foreign Visits and Assignments – facilitating access for non-US citizen users
- **Public**
 - NUFO participates in the USA Science & Engineering Festival in Washington
 - NUFO attends professional society meetings to educate attendees about user facilities
 - NUFO conducts benchmarking studies to enable facilities to adopt best practices



NUFO Annual Meetings

- 2009: Industry usage
- 2010: Educational outreach
- 2011: Access to user facilities
- 2012: University relations
- 2013: Big data

The screenshot shows the NUFO website's news section. At the top, the NUFO logo is on the left, and the slogan "The FUTURE of America is the RESEARCH of TODAY" is on the right. Below the logo, the website address "www.nufo.org" and email "info@nufo.org" are listed, along with the date "July 9, 2013". Social media icons for Facebook, Twitter, LinkedIn, and YouTube are also present. The main heading is "NEWS". The featured article is titled "2013 NUFO Annual Meeting" and "Big Data Draws Big Crowds". It includes a large photo of a group of people at a meeting. The text describes the meeting's theme, location (Lawrence Berkeley National Laboratory), and topics discussed, including big data, plenary sessions, and parallel sessions for various working groups. It also mentions that approximately 100 people registered in person and 70 logged in for live video streams.



2013 User Science Exhibition

The screenshot shows a news article from the National User Facility Organization (NUFO) website. The header features the NUFO logo and the slogan "The FUTURE of America is the RESEARCH of TODAY". Below the header, there is a navigation bar with the website URL "www.nufo.org", contact information "Info@nufo.org", and the date "July 25, 2013". The main content area is titled "NEWS" and features a photograph of Congressman Randy Hultgren and Chris Benmore. The article is titled "2013 User Science Exhibition" and describes the event held on June 26, 2013, at the Rayburn House Office Building. It highlights various demonstrations, including balls suspended in air by sound, new detectors for breast cancer, ice cut by coins coated with diamond, and roofing shingles that generate electricity. The article also mentions that the exhibition was sponsored by NUFO and attended by members of the U.S. House of Representatives and their staffs. A quote from Representative Randy Hultgren is included, emphasizing the importance of basic scientific research. The article concludes with remarks delivered during the event by Congressmen Chaka Fattah and Randy Hultgren.

NEWS

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 Rayburn 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 themes 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 Congressmen Chaka Fattah and Randy Hultgren, two of the co-Chairs of the Science Caucus, emphasized the importance of

"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).

Attendees

- Seven members of the House attended
- Staff from 35 Congressional Offices
- Funding agencies
- Professional societies

Exhibition

- 16 demonstrations and videos
- Faces and Places posters
- Posters in theme areas of energy, health, and innovation



Demonstrations and Videos

- Visualizing Photosynthesis with Advanced Devices from Nuclear Physics & Breast Cancer Detection (Jlab)
- Remote Control of Microscope (NCEM)
- Rare Isotope Applications for Health, Security, and Energy (NSCL)
- Detector Counter (Fermi)
- Predicting Material Behavior (Air Force Research Laboratory/APS)
- Understanding How Contaminants Move through the Subsurface for Health Protection and Environmental Remediation (EMSL)
- Acoustic Levitation (APS)
- Blood Flow: Multi-scale Modeling and Visualization (ALCF)
- Solar Shingles: Reinventing the Roof (APS/Dow Chemical)
- Lasers Unlock the Secrets of the Role Microbes Play in Clean Energy and Climate Change (EMSL)
- Energy Efficient Semiconductor Devices based on Diamond Thin Films (CNM)
- Are You Hot Enough (CNMS)



NUFO Plans for 2014

- NUFO, Office of Science, and the National Science Foundation are jointly sponsoring a User Facility Symposium at the 2014 AAAS Meeting
- Science & Engineering Festival in Washington, DC
- NUFO plans to visits each user facility and speak to User Organizations
- Investigating incorporation





The Future of America is the Research of Today

Join our movement:
Become a Friend
Join a Working Group
Volunteer

www.nufo.org

