



# 1st Quarter Report—Oct./Nov./Dec. 2013

## ACCOMPLISHMENTS & LOOK AHEAD

### October

- Dr. Ron Horn from GE Hitachi NE presented a colloquium on managing BWR material degradation on Oct. 24.
- Frances Marshall presented a seminar at Virginia Tech on Oct. 25 about ATR and the ATR NSUF program.

### November

- Jim Cole hosted JAEA visitors to discuss ongoing research on recovery from the 2011 Fukushima incident and provided an overview the ATR NSUF.
- The Panel Review Committee met Nov. 6 to consider the spring 2013 proposals and rank based on the peer reviews.
- ATR NSUF hosted a booth at the American Nuclear Society Nuclear Technology Expo November 10-12 at the Winter ANS meeting in Washington, DC.
- Joshua Daw traveled to France to work with CEA to install the THWM NP into OSIRIS for test irradiations.
- Frances Marshall presented a seminar at the US Naval Academy on Nov. 18 about ATR and the ATR NSUF program.

### December

- The first quarter call for RTE proposals closed Dec. 30.

### January

- The Review panel for fall 2014 call for proposals convened.
- The Review panel for first quarter call for RTEs convened.

## Open Calls for Proposals

- FY14 spring call for irradiation, PIE and APS experiments closes Jan. 31, 2014.
- The new aligned call for irradiation, PIE, APS, and RTE proposals opens Feb. 1, 2014.

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## NOTEWORTHY NEWS

### The Year in Review

The ATR National Scientific User Facility had another great year in 2013! We supported many researchers, completed several projects, started a number of new projects, and shipped many specimens in support of novel research ideas. We would like to thank all of the researchers and reviewers who help us get research accomplished in 2013.



We made great progress on our industry program and completed installation and testing of the IASCC test rig. ATR NSUF was made a line item in the Nuclear Energy Enabling Technologies (NEET) program, which helped stabilize our budget. We also awarded 14 research proposals and hosted successful Users Week in June with over 60 people in attendance. We also hosted eight summer interns from six different universities who worked in locations throughout Idaho National Laboratory.

Westinghouse became our first industry partner facility; bring the total of ATR NSUF partner facilities to 11. In November, we launched a new website with over 70 pages of updated content including more detailed information on ATR NSUF research capabilities and experiments, a publications section, and a statistics page giving a quick view of key metrics.

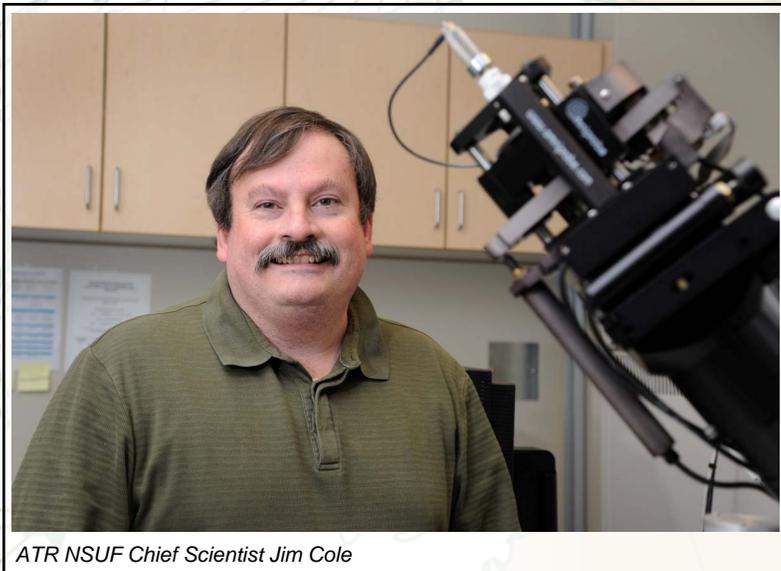
As we progress through 2014, our ATR NSUF team will continue to provide an excellent service to our ever-expanding user community.

## Registration Open for Summer Users Meeting

Registration for the annual ATR NSUF Users Meeting is now open! The annual Users Meeting (previously known as "Users Week") is an outreach program where participants learn about ATR NSUF research and capabilities through presentations and tours. The meeting will take place at Idaho National Laboratory and runs from June 4-6, 2014.

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## Chief Scientist Jim Cole receives Outstanding Contributor Award



ATR NSUF Chief Scientist Jim Cole

**A**TR NSUF's chief scientist Jim Cole recently received a Center for Advanced Energy Studies (CAES) Outstanding Contributor Award at an awards ceremony held January 8, 2013. Each year CAES presents Outstanding Contributor Awards to four recipients – one from each of the four CAES partners (Idaho National Laboratory, Idaho State University, University of Idaho, and Boise State University).

Ray Grosshans, CAES Director of Business Development, says, "Jim Cole was selected as the 2013 CAES Outstanding Contributor representing INL because of his long-term, very high-quality support of collaborative research in the CAES Materials and Characterization Suite. Jim is held in high regard by colleagues who value both his scientific and technical expertise and his willingness to support the MaCS team." ATR NSUF congratulates Jim on his award!

## Users Meeting cont.

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Registration is open to participants from industry, national laboratories, and students/faculty/post-docs from universities interested in nuclear materials, fuels, post-irradiation examination, and reactor-based technology development.

Technical sessions at the Users Meeting will cover materials, fuels, post-irradiation examination, and reactor-based technology development. Students are encouraged to share their research by presenting at the poster session held by the ATR NSUF User Organization on June 5.

In addition to the technical sessions, all participants also have the opportunity to tour INL's Advanced Test Reactor and post-irradiation examination facilities.

The deadline for registration is April 11, 2014. Find out more details on the [Users Meeting Event Details](#) page on the ATR NSUF website.



Users Week attendees at a 2013 technical session.

## Staffing Changes for the New Year

**I**n addition to naming new Scientific Director Rory Kennedy in late December, Industry Program Lead John Jackson also began an outplant assignment at DOE headquarters in Washington D.C. While on assignment, Richard Wright, a materials engineer at Idaho National Laboratory, will assist with ATR NSUF industry program activities.

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## Four Rapid Turnaround Experiments Awarded

On October 31, 2013 ATR NSUF awarded four new Rapid Turnaround Experiments (RTEs) to:

- Boise State University, Dr. John Youngsman, APT (LEAP) analysis of Cs implanted SiC.
- North Carolina State University, Dr. K.L. Murty, Post Irradiation Examination of ATR-irradiated Ultra-Fine Grained Steel.
- University of Idaho, Dr. Indrajit Charit, Microstructural and Mechanical Characterization of Self-ion Irradiated Grade 92 Steel.
- University of Idaho, Dr. Indrajit Charit, Microstructural and Mechanical Characterization of Self-ion Irradiated 14LMT Nanostructured Ferritic Steels.

The FY14 call for irradiation, post-irradiation examination (PIE), and Advanced Photon Source (APS) proposals closes January 31, 2014. Future calls are moving to a three-call-per-year proposal cycle with calls for all types of proposals opening and closing on the same date. This new aligned call for irradiation, PIE, APS, and rapid turnaround experiment proposals will open February 1, 2014.

If you are interested in proposing, or are in the middle of preparing a proposal and have any questions, please don't hesitate to contact our staff. Jim Cole ([james.cole@inl.gov](mailto:james.cole@inl.gov), 208-526-8101) can answer any technical questions. For questions about the electronic proposal system, please contact Jeff Benson (208-526-3841, [jeff.benson@inl.gov](mailto:jeff.benson@inl.gov)).

## Staffing cont.

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Also, program administrator Mary Catherine Thelen is retiring from INL in early February 2014. Jeff Benson, previously the ATR NSUF Education Coordinator, will be the new program administration contact. Jeff can be reached at 208-526-3841 or [jeff.benson@inl.gov](mailto:jeff.benson@inl.gov).

Julie Ulrich, the ATR NSUF Communications Specialist, will be the outreach and public affairs activities contact. She can be reached at 208-526-1572 or [julie.ulrich@inl.gov](mailto:julie.ulrich@inl.gov).

Mary Catherine has been an integral part of the program since the ATR NSUF inception and she will be greatly missed, but we wish her luck in her new ventures!



### ATR NSUF Quarterly Report

For comments, questions, or story ideas, contact:

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208-526-1572

To learn more about ATR NSUF, visit  
<http://atrnuf.inl.gov>.