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# Radiation Safety Information Computational Center

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*"Be at War with your Vices, at Peace with your Neighbours, and let every  
New-Year find you a better Man."*

*~Quoted in Benjamin Franklin's 1755 Poor Richard's Almanac, December*

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## **CHANGES TO THE RSICC CODE AND DATA COLLECTION**

There was one update to the RSICC catalog for those individuals that may be interested.

### **PSR-588 AIREKMOD-RR**

AIREKMOD-RR, a point kinetics code, is contributed by the Centre de Radioprotection et de Surete (CRS), Alger 16000, Algeria through the OECD Nuclear Energy Agency Data Bank, Issy-les-Moulineaux, France. AIREMOD-RR is a point kinetics code which can simulate fast transients in nuclear research reactor cores. It can also be used for theoretical reactor dynamics studies. It is used for research reactor kinetic analysis and provides a point neutron kinetic capability. The thermal hydraulic behavior is governed by a one-dimensional heat balance equation. The calculations are restricted to a single equivalent unit cell which consists of fuel, clad and coolant. For transient reactor kinetic calculations a modified Runge Kutta numerical method is used. The external reactivity insertion, specified as a function of time, is converted in dollar (\$) unit. The neutron density, energy release and feedback variables are given at each time step. The two types of reactivity feedback considered are: Doppler effect and moderator effect. A new expression for the reactivity dependence on the feedback variables has been introduced in the present version of the code. The feedback reactivities are fitted in power series expression.

The package is transmitted on CD and includes executables (Linux and Windows), source code, input/output files and a user's manual. Fortran 77, Linux, Windows (P588PCX8601).

## **SCIENCE EDUCATION PROGRAMS AT OAK RIDGE NATIONAL LABORATORY**

Looking for an internship or post-graduate opportunity at Oak Ridge National Laboratory? The Science Education Programs at Oak Ridge National Laboratory provide paid opportunities for undergraduates, grad students, recent graduates, and faculty to participate in high-quality research alongside world-class scientists to solve real-world problems. Opportunities are available for internships and co-ops, research appointments, and sabbaticals.

You can access all available opportunities through the website at <http://www.ornl.gov>. The Talent and Opportunity System allows you to create a profile, and then answer only 5 or 6 questions for each program or job posting for which you apply.

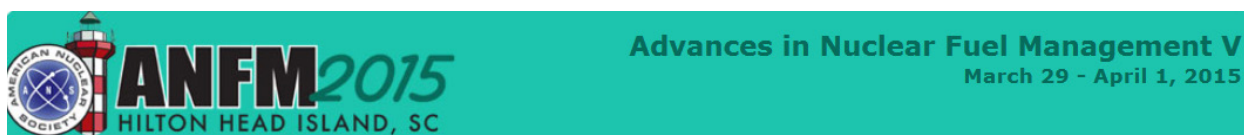
All levels of participants from undergraduates to faculty are encouraged to publish research papers with their mentors. Please browse through the Research Profiles on the different participants and their research experiences at the right hand side of the bottom of the web site listed above. Also, there is a video of research participants at ORNL sharing their thoughts on how access to world-class research facilities and staff has catapulted their careers in science and technology. You can find it on YouTube at <http://ow.ly/2EQLz>.

## CONFERENCES, TRAINING COURSES, SYMPOSIA

RSICC attempts to keep its customers and contributors advised of conferences, courses, and symposia in the field of radiation protection, transport, and shielding through this section of the newsletter. Should you be involved in the planning/organization of such events, feel free to send your announcements and calls for papers via email [walkersy@ornl.gov](mailto:walkersy@ornl.gov) with “conferences” in the subject line by the 20<sup>th</sup> of each month. Please include the announcement in its native format as an attachment to the message. Please provide a website address for the event if one is available.

Every attempt is made to ensure that the links provided in the Conference and Calendar sections of this newsletter are correct; however, if the links become unavailable, please call the point of contact for the event.

### CONFERENCES



### Advances in Nuclear Fuel Management V

The American Nuclear Society’s ANFM2015 meeting will be held on Hilton Head Island, South Carolina, **March 29 – April 1, 2015**. The meeting is a forum for addressing a broad spectrum of front-end nuclear fuel management activities, within the context of reactor physics and fuel cycle economics. Topics will range from methods development and verification to design and implementation of new in-core fuel products and strategies.

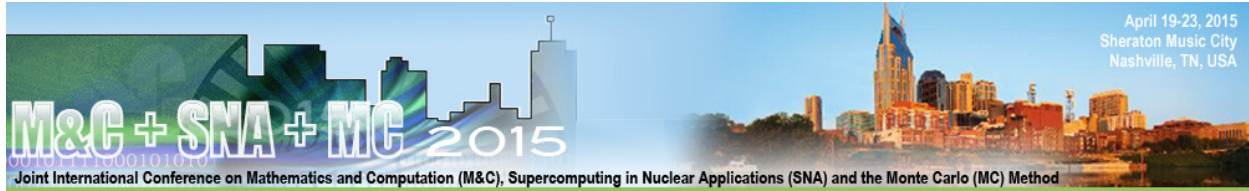
For up-to-date information about this conference, visit their website at <http://anfm2015.org>.



### CHEP2015

The 21<sup>st</sup> International Conference on Computing in High Energy and Nuclear Physics (CHEP2015) will be held in Okinawa Japan, **April 13-17, 2015**.

For up-to-date information about this conference, visit their website at <http://chep2015.kek.jp/>.



### **M&C + SNA + MC 2015**

The Oak Ridge/Knoxville Section of the American Nuclear Society (ANS) will host and sponsor the FIRST combined Mathematics and Computations (M&C) ANS topical, Supercomputing in Nuclear Applications (SNA), and Monte Carlo (MC) 2015. The joint international conference will be held at the Sheraton Music City in Nashville, Tennessee during the week of **April 19-23, 2015**. M&C is the latest in the series organized by the Mathematics and Computation Division of the American Nuclear Society. Prior to 2010, SNA and MC existed as separate conferences. In 2010, SNA and MC combined and held SNA+MC 2010 in Tokyo, Japan. This was followed by SNA+MC 2013 held in Paris, France.

For up-to-date information about this conference, visit their website at <http://mc2015.org>.

### **The 17<sup>th</sup> International Conference on Emerging Nuclear Energy Systems (ICENES2015)**

This conference will consist of an informative and comprehensive scientific program, featuring oral and poster presentations and a commercial exhibition. This will provide a unique opportunity to become familiar with the most recent advancements in innovative nuclear energy systems, as well as looking at “bold” and “unthinkable” ideas on a sound scientific-technical basis. The forum will also be open to intellectual debate leading to practical applications around innovative non-nuclear technologies, such as hydrogen energy, solar energy, deep space exploration and others. This conference will take place **May 10-14, 2015** inclusive, in Antalya, Turkey.

For up-to-date information about this conference, visit their website at <http://www.icenes2015.org>.

## **International Workshop on Operational and Regulatory Aspects of Criticality Safety**

The OECD Nuclear Energy Agency (NEA) Committee on the Safety of Nuclear Installations (CSNI) Working Group on Fuel Cycle Safety (WGFC) will hold an international workshop on Operational and Regulatory Aspects of Criticality Safety (ORACS). The workshop will be hosted jointly by the United States Nuclear Regulatory Commission and the United States Department of Energy **May 19-21, 2015** in Albuquerque, New Mexico, United States. The workshop is planned for three days. This announcement includes the information on this event and the call for papers to be submitted for presentation at the workshop.

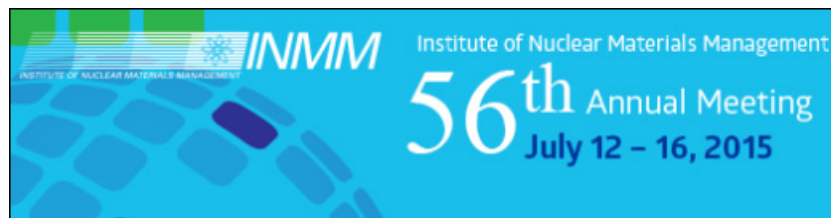
For up-to-date information about this workshop, visit their website at:

[www.oecd-nea.org/nsd/calendar.html](http://www.oecd-nea.org/nsd/calendar.html).



## **Society of Nuclear Medicine and Molecular Imaging Annual Meeting**

The SNMMI Annual Meeting will be held in Baltimore, Maryland, USA, **June 6-10, 2015**. Please visit their [website](#) for more details.



## **INMM 56<sup>th</sup> Annual Meeting**

The INMM 56<sup>th</sup> Annual Meeting will be held **July 12-16, 2015** at the Esmeralda Renaissance in Indian Wells, California, USA. Please visit their website for more information: [www.inmm.org](http://www.inmm.org).



## **HPS 60<sup>th</sup> Annual Meeting**

60<sup>th</sup> Annual Meeting of the Health Physics Society will be held **July 12-16, 2015**, in Indianapolis, Indiana. Please visit their official website for more details, <http://www.hpschapters.org/2015AM/>.



## **2015 IEEE Nuclear and Space Radiation Effects Conference**

The 2015 IEEE Nuclear and Space Radiation Effects Conference will be held **July 13-17, 2015**, at the Marriott Copley Place, Boston, Massachusetts. The conference features a technical program consisting of eight to ten technical sessions of contributed papers describing the latest observations in radiation effects, a Short Course on radiation effects offered on July 13, a Radiation Effects Data Workshop, and an Industrial Exhibit. The technical program includes oral and poster sessions. Please visit their website for more information <http://www.nsrec.com/>.





## ICNC 2015

The Nuclear Criticality Safety Division of the American Nuclear Society (ANS) will host the International Conference on Nuclear Criticality (ICNC): 35 Years of International Cooperation. The international conference is co-sponsored by the NEA and will be held at the Omni Hotel in Charlotte, North Carolina from **September 13-17, 2015**. The paper submission period is open with 400 word summaries due by January 31, 2015.

For up-to-date information about this conference, visit their website at <http://ncsd.ans.org/site/icnc2015.htm>.

## 2015 ANS Winter Meeting and Nuclear Technology Expo

This meeting will be held **November 8-12, 2015**, in Washington, DC at the Marriott Wardman Park. Please visit the ANS website for more information at [www.ans.org](http://www.ans.org).

## TRAINING COURSES



### LANL MCNP6 Class Schedule

| Date                                   | Course Name and Description   | Cost                 |
|--|---|----------------------|
| Feb. 23-27, 2015<br>Los Alamos, NM     | <a href="#">Introduction to MCNP6</a><br>Non-US citizens must register by 2014-12-19  <br>Mon 10:30 - Fri 12:00               | \$1800 or<br>\$1500* |
| Mar 2-4, 2015<br>Los Alamos, NM        | <a href="#">Unstructured Mesh with Attila4MC</a><br>Non-US citizens must register by 2014-12-26  <br>Mon 12:30 - Wed 4:30     | \$1000 or<br>\$800*  |
| Mar 23-27, 2015<br>Los Alamos, NM      | <a href="#">Criticality Calculations with MCNP6</a><br>Non-US citizens must register by 2015-01-16  <br>Mon 10:30 - Fri 12:00 | \$1800 or<br>\$1500* |
| Apr 27 - May 1, 2015<br>Los Alamos, NM | <a href="#">Introduction to MCNP6</a><br>Non-US citizens must register by 2015-02-20  <br>Mon 10:30 - Fri 12:00               | \$1800 or<br>\$1500* |
| June 1-5, 2015                         | <a href="#">Introduction to MCNP6</a>   | \$1800 or            |



|                                    |   |                      |
|------------------------------------|---|----------------------|
| Los Alamos, NM                     | Non-US citizens must register by 2015-03-27  <br>Mon 10:30 - Fri 12:00  | \$1500*              |
| July 27-29, 2015<br>Los Alamos, NM | <a href="#">Unstructured Mesh with Attila4MC</a><br>Non-US citizens must register by 2015-05-22  <br>Mon 12:30 - Wed 4:30     | \$1000 or<br>\$800*  |
| Aug 3-7, 2015<br>Los Alamos, NM    | <a href="#">Introduction to MCNP6</a><br>Non-US citizens must register by 2015-05-29  <br>Mon 10:30 - Fri 12:00               | \$1800 or<br>\$1500* |
| Aug 10-14, 2015<br>Los Alamos, NM  | <a href="#">Criticality Calculations with MCNP6</a><br>Non-US citizens must register by 2015-06-05  <br>Mon 10:30 - Fri 12:00 | \$1800 or<br>\$1500* |
| Aug 17-21, 2015<br>Los Alamos, NM  | <a href="#">Variance Reduction with MCNP6</a><br>Non-US citizens must register by 2015-06-12  <br>Mon 10:30 - Fri 12:00       | \$1800 or<br>\$1500* |
| Oct 19-23, 2015<br>Los Alamos, NM  | <a href="#">Introduction to MCNP6</a><br>Non-US citizens must register by 2015-08-14  <br>Mon 10:30 - Fri 12:00               | \$1800 or<br>\$1500* |
| Oct 26-28, 2015<br>Los Alamos, NM  | <a href="#">Unstructured Mesh with Attila4MC</a><br>Non-US citizens must register by 2015-08-21  <br>Mon 12:30 - Wed 4:30     | \$1000 or<br>\$800*  |

\* **Early payment discount:** A discount of \$300 per student is given when the registration payment is received in full at least 4 weeks before the start of class.

\* **Classes may be cancelled or postponed if fewer than 8 students register.**

\* **Maximum of 15 students per class.**

**Introductory classes** are for those who have little or no experience with MCNP. This class surveys the features of MCNP so the beginning user will be introduced to the capabilities of the program, and will have hands-on experience at running the code to solve simple problems. Course topics include Basic Geometry, Source Definitions, Output (Tallies), Advanced Geometry (repeated structures specification), Variance Reduction Techniques, Statistical Analysis, Criticality, Plotting of Geometry and Tallies, and Neutron / Photon / Electron Physics.

**Intermediate workshops** cover the entire spectrum of MCNP/MCNPX but proceed at a much faster pace and are more in-depth than Introductory classes. These workshops are open to new users; the first day of class is a review of basics. However, the intermediate workshops are targeted toward more experienced users and are more problem solving than lecture classes. Intermediate workshops feature flexible course content, skip topics of least interest to the participants, and provide significantly more depth than introductory classes.

**Advanced classes - Variance Reduction & Criticality** are for people with MCNP experience who want to extend their knowledge and gain depth of understanding. Most areas of MCNP operation will be discussed in detail, with emphasis on Advanced Geometry, Advanced Variance Reduction Techniques, and other advanced features of the program. Time will be available to discuss approaches to specific problems of interest to participants. Classes on specific topics are offered when there is sufficient interest.

**NOTE:** While MCNP supports a number of platforms, LANL class computers are usually Windows based.

More information about the MCNP courses at LANL is available on their website at <https://laws.lanl.gov/vhosts/mcnp.lanl.gov/classes/classinformation.shtml>.

## **MCNP6 Visual Editor Training**

Classes are taught using the most recent (beta) version of the Visual Editor Code. All class attendees must have a valid MCNP/MCNPX RSICC license. Bring proof of receipt (letter or email) to the class.

| <b>Visual Editor Classes 2015</b> |  |                        |
|-----------------------------------|--|------------------------|
| February 2-6, 2015                | Beginning Visual MCNP6   | Seoul, Korea           |
| February 9-13, 2015               | Intermediate Visual MCNP6  | Seoul, Korea           |
| February 16-20, 2015              | Beginning Visual MCNP6   | Sydney, Australia      |
| February 23-27, 2015              | Visual MCNP6 for Shielding Calculations<br>(class size limited to 6)<br>(New Workshop - <a href="#">Click here</a> to see workshop content!) | Richland, WA           |
| March 2-6, 2015                   | Visual MCNP6 for Criticality Calculations<br>(class size limited to 6). (New Workshop - <a href="#">Click here</a> to see workshop content!) | Richland, WA           |
| March 16-20, 2015                 | Beginning Visual MCNP6   | Paris, France          |
| March 30-April 3, 2015            | Intermediate Visual MCNP6  | Barcelona, Spain       |
| April 13-17, 2015                 | Intermediate Visual MCNP6 for Medical Physics Calculations (Class size limited to 6)   | Richland, WA           |
| May 11-15, 2015                   | Visual MCNP6 for Shielding Calculations<br>(Class size limited to 6)   | Barcelona, Spain       |
| May 18-22, 2015                   | Visual MCNP6 for Criticality Calculations<br>(Class size limited to 6)   | Barcelona, Spain       |
| May 25-29, 2015                   | Visual MCNP6 for Medical Physics (Class size limited to 6)   | Barcelona, Spain       |
| June 15-19, 2015                  | Beginning Visual MCNP6   | Prague, Czech Republic |
| June 29-July 3, 2015              | Intermediate Visual MCNP6  | Barcelona, Spain       |
| July 13-17, 2015                  | Beginning Visual MCNP6   | Anaheim, CA            |
| July 20-24, 2015                  | Intermediate Visual MCNP6  | Anaheim, CA            |
| August 17-21, 2015                | Beginning Visual MCNP6   | Orlando, FL            |
| August 24-28, 2015                | Intermediate Visual MCNP6  | Orlando, FL            |
| September 14-18, 2015             | Beginning Visual MCNP6   | Las Vegas, NV          |
| September 21-25, 2015             | Intermediate Visual MCNP6  | Las Vegas, NV          |

|                   |                        |               |
|-------------------|------------------------|---------------|
| October 5-9, 2015 | Beginning Visual MCNP6 | Paris, France |
|-------------------|------------------------|---------------|

The introductory workshops combine teaching on MCNP basics and how to create MCNP input files using the Visual Editor. The intermediate Visual Editor workshops focus on more advanced topics such as tallies and variance reduction using the Visual Editor.

Exercises will focus on creating input files and visualizing output data with the Visual Editor. Attendees are encouraged to bring their own input files for viewing and modifying in the Visual Editor; this is particularly important for the intermediate workshop.

The course description and registration information can be found at <http://www.mcnpvised.com/index.html>.

| <b>MCNP6 Workshops 2015</b> |                             |                        |
|-----------------------------|-----------------------------|------------------------|
| March 23-27, 2015           | MCNP6 Intermediate Workshop | Paris, France          |
| April 27-May 1, 2015        | MCNP6 Intermediate Workshop | Livermore, CA          |
| June 22-26, 2015            | MCNP6 Intermediate Workshop | Prague, Czech Republic |
| August 31-September 4, 2015 | MCNP6 Intermediate Workshop | Orlando, FL            |
| October 12-16, 2015         | MCNP6 Intermediate Workshop | Paris, France          |

Intermediate Workshops cover the entire spectrum of MCNP6 but proceed at a much faster pace and are more in-depth than Introductory Classes. These workshops are open to new users; the first day is a review of basics. However, the intermediate workshops are targeted toward more experienced users and are more problem solving than lecture classes. Intermediate workshops feature flexible course content, skip topics of least interest to the participants, and provide significantly more depth than introductory classes.

The list of workshops is tentative, as workshops may be added, removed, or modified throughout the year, depending on user interests. Workshops with fewer than 12 registrants on the early registration date are subject to cancellation or rescheduling.

In order to process non-U.S. citizens by the class date, non-U.S. citizens must register at least 6 weeks prior to the start of the training class. All non-U.S. citizens who reside in countries listed in the U.S. Code of Federal Regulations, Title 10, Part 810.8, are required to register at least 8 weeks prior to the start of the training class. These participants must be processed by the DOE and should not make travel arrangements until approval from DOE has been obtained.

Additional information about the courses can be found at the website, <http://www.mcnpvised.com/train.html>.

To register send an email to Randy Schwarz at [randyschwarz@mcnpvised.com](mailto:randyschwarz@mcnpvised.com), indicating the workshop of interest to you.

## **Sixth MCNPX-PoliMi Training Workshop**

The Sixth MCNPX-PoliMi Training Workshop will be held **June 24-25, 2015**, at the University of Michigan, in Ann Arbor, Michigan.

The MCNPX-PoliMi code is a modified version of MCNPX v. 2.7.0 that provides unique capabilities for simulating correlated-particle measurements and detector response. This workshop will introduce new users to the capabilities of the MCNPX-PoliMi code and acquaint experienced users with new features.

For up-to-date information and registration, please visit their website at <http://goo.gl/forms/jQW7Y58kAp>. If you have any questions, please email [clarkesd@umich.edu](mailto:clarkesd@umich.edu).



### **NEA Nuclear Energy Agency**

Class sizes are limited and courses may be cancelled if minimum enrollment is not obtained one month prior to course. Course fees paid are refundable up to one month before each class.

Please note that all attendees must be registered users.

| <b>Date</b>      | <b>Class</b>  | <b>Course Content</b>   | <b>Price</b> | <b>Location</b> |
|------------------|---|---|--------------|-----------------|
| 2-6 March 2015   | SCALE/KENO-MAVRIC Criticality Safety and Radiation Shielding Course | <a href="#">Course description</a><br>To register, <a href="#">click here</a> | 2000 Euros   | Paris, France   |
| 9-13 March 2015  | SCALE/TSUNAMI Sensitivity and Uncertainty Calculations Course       | <a href="#">Course description</a><br>To register, <a href="#">click here</a> | 2000 Euros   | Paris, France   |
| 16-20 March 2015 | Introduction to MCNP6 using the Visual Editor                       | <a href="#">Course description</a><br>To register, <a href="#">click here</a> | 2000 Euros   | Paris, France   |
| 23-27 March 2015 | MCNP6 Intermediate  | <a href="#">Course description</a><br>To register, <a href="#">click here</a> | 2000 Euros   | Paris, France   |

\* The fee includes the training course, luncheons and coffee breaks.

**Contact:** [programs@oecd-nea.org](mailto:programs@oecd-nea.org)



## SCALE Training Courses

Training is provided by developers and expert users from the SCALE team. Courses provide a review of theory, description of capabilities and limitations of the software, and hands-on experience running problems of varying levels of complexity.

All attendees MUST be licensed SCALE 6.1 users. SCALE 6.1 is available from [ORNL/RSICC](#) in the USA, the [OECD/NEA Data Bank](#) in France, and the [RIST/NUCIS](#) in Japan. All currently scheduled SCALE Courses are described below.

| <b>Date</b>             | <b>Course Name and Description</b>  | <b>Location</b>                            | <b>Cost</b>  |
|-------------------------|---|--|--------------|
| February<br>2-6, 2015   | <b>SCALE Criticality Safety and Radiation Shielding Course</b><br>Basic criticality calculations with KENO-VI; shielding analysis with automated variance reduction using MAVRIC; criticality accident alarm system analysis  | ORNL<br>Oak Ridge,<br>TN USA               | \$2000*      |
| February<br>9-13, 2015  | <b>SCALE Lattice Physics and Depletion Course</b><br>2D lattice physics calculations; 1D, 2D, and 3D depletion calculations; resonance self-shielding techniques including Monte Carlo Dancoff factors for non-uniform lattices; generation of libraries for ORIGEN-ARP   | ORNL<br>Oak Ridge,<br>TN USA               | \$2000*      |
| February<br>16-20, 2015 | <b>SCALE/ORIGEN Standalone Fuel Depletion, Activation, and Source Term Analysis Course</b><br>Isotopic depletion, activation analysis, and source term characterization using ORIGEN/OrigenArp  | ORNL<br>Oak Ridge,<br>TN USA               | \$2000*      |
| March<br>2-6, 2015      | <b>SCALE Criticality Safety and Radiation Shielding Course</b><br>Basic criticality calculations with KENO-VI; shielding analysis with automated variance reduction using MAVRIC; criticality accident alarm system analysis  | OECD/NEA<br>Data Bank,<br>Paris,<br>France | 2000<br>Euro |
| March<br>9-13, 2015     | <b>SCALE Sensitivity and Uncertainty Calculations</b><br>TSUNAMI: 1D, 2D, and 3D $k_{\text{eff}}$ sensitivity/uncertainty analysis; 2D generalized sensitivity analysis for lattice physics; reactivity sensitivity analysis; advanced S/U methods for code and data validation using trending analysis and data assimilation (data adjustment) techniques; $k_{\text{eff}}$ burnup credit validation | OECD/NEA<br>Data Bank,<br>Paris,<br>France | 2000<br>Euro |
| August 10-14,<br>2015   | <b>SCALE Criticality Safety Calculations Course</b><br>Introductory through advanced criticality calculations using KENO V.a and KENO-VI; resonance self-shielding techniques   | ORNL<br>Oak Ridge,<br>TN USA               | \$2000*      |

|                                     |  |                              |         |
|-------------------------------------|--|------------------------------|---------|
| August<br>17-21, 2015               | <b>SCALE Sensitivity and Uncertainty Calculations Course</b><br>TSUNAMI: 1D, 2D, and 3D $k_{\text{eff}}$ sensitivity/uncertainty analysis; 2D generalized sensitivity analysis for lattice physics; reactivity sensitivity analysis; advanced S/U methods for code and data validation using trending analysis and data assimilation (data adjustment) techniques; $k_{\text{eff}}$ burnup credit validation | ORNL<br>Oak Ridge,<br>TN USA | \$2000* |
| August<br>24-28, 2015               | <b>SCALE Lattice Physics and Depletion Course</b><br>2D lattice physics calculations; 1D, 2D, and 3D depletion calculations; resonance self-shielding techniques including Monte Carlo Dancoff factors for non-uniform lattices; generation of libraries for ORIGEN-ARP  | ORNL<br>Oak Ridge,<br>TN USA | \$2000* |
| August 31 -<br>September 4,<br>2015 | <b>SCALE/ORIGEN Standalone Fuel Depletion, Activation, and Source Term Analysis Course</b><br>Isotopic depletion, activation analysis, and source term characterization using ORIGEN/OrigenArp   | ORNL<br>Oak Ridge,<br>TN USA | \$2000* |

*\*Full-time university students can register at a reduced rate. Both professional and student registration fees are discounted \$200 for each course over one.*

**FOREIGN NATIONAL VISITORS TO ORNL** - Payment **MUST** be received at least one week prior to attending the training course. All foreign national visitors must register 40 days before the start date of the training course they plan to attend.

For more information regarding this class, visit their website at [http://scale.ornl.gov/training\\_2015.shtml](http://scale.ornl.gov/training_2015.shtml)

## **SYMPOSIA**

### **2015 CALENDAR**

#### **February**

**9<sup>th</sup> International Topical Meeting on Nuclear Plant Instrumentation, Control, and Human Machine Interface Technologies (NPIC&HMIT 2015)**, February 22-26, 2015, Charlotte, NC. For up-to-date information about this conference, visit their website at <http://www.npic-hmit2015.org/>.

**Health Physics Society 48<sup>th</sup> Midyear Topical Meeting**, February 1-4, 2015, Norfolk, VA. For up-to-date information about this conference, visit their website at <http://hps.org/meetings/meeting41.html>.

#### **March**

**Regulatory Information Conference (RIC) 2015**, March 10-12, 2015, North Bethesda, MD. For up-to-date information about this conference, visit their website at <http://www.nrc.gov/public-involve/conference-symposia/ric/>

## April

**ANS Mathematics & Computation (M&C) 2015 & Supercomputing in Nuclear Applications (SNA) and Monte Carlo (MC)**, April 19-23, 2015, Nashville, TN. For up-to-date information about this conference, visit their website at <http://mc2015.org/>.

## May

**2015 International Congress on Advances in Nuclear Power Plants (ICAPP '15)**, May 3-6, 2015, Nice, France. For up-to-date information about this conference, visit their website at <https://www.sfen.fr/ICAPP>.

**International Symposium on Isotope Hydrology: Revisiting Foundations and Exploring Frontiers**, May 11-15, 2015, Vienna, Austria. For up-to-date information, visit the [website](#).

**Used Fuel Management Conference**, May 5-7, 2015, Orlando, FL. Website not yet available.

## June

**International Conference on Computer Security in a Nuclear World: Expert Discussion and Exchange**, June 1-5, 2015, Vienna, Austria. For up-to-date information, visit the [website](#).

**ANS Annual Meeting: Nuclear Technology: An Essential Part of the Solution**, June 7-11, 2015, San Antonio, TX. Website not yet available.

**International Conference on Management of Spent Fuel from Nuclear Power Reactors – An Integrated Approach to the Back-End of the Fuel Cycle**, June 15-19, 2015, Vienna, Austria. For up-to-date information, visit the [website](#).

## July

**U.S. Women in Nuclear Conference**, July 12-15, 2015, Austin, TX. Website not yet available.

**INMM 56<sup>th</sup> Annual Meeting**, July 12-16, 2015, Indian Wells, CA. Website not yet available.

**Health Physics Society 60<sup>th</sup> Annual Meeting**, July 12-16, 2015, Indianapolis, IN. Website not yet available.

## September

**Global 2015 International Nuclear Fuel Cycle Conference**, September 20-24, 2015, Paris, France. For up-to-date information about this conference, visit their website at <https://www.sfen.fr/GLOBAL>.

## November

**ANS Winter Meeting and Nuclear Technology Expo**, November 8-12, 2015, Washington, DC. Website not yet available.



**International Conference on Research Reactors: Safe Management and Effective Utilization,**  
November 16-20, 2015, Vienna, Austria. For up-to-date information, visit their [website](#).