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# Radiation Safety Information Computational Center

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No. 683

May 2022

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*“A nuclear power plant is infinitely safer than eating because 300 people choke to death on food each year.” – Dixie Lee Ray*

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## CHANGES TO THE RSICC CODE AND DATA COLLECTION

There are no updates to the RSICC catalog.

### COVID RELATED RECOMMENDATIONS

*(Last updated September 24, 2021)*

Due to the continued situation regarding the COVID, we realize that many of our customers, like the RSICC team, are working from home and are not physically at their institution. However, due to U.S. Federal regulations, RSICC is required to validate the information provided by our customers and the organizations with which our customers are affiliated. Hence, to minimize confusion, we recommend that our customers take the following steps when registering with RSICC and requesting software.

- RSICC's customers must provide an email address associated with their organization. University students should provide an email address associated with their university, and others should provide an email address associated with their organization. Use of a private email address is strongly discouraged as this results in additional delays in processing the registration and/or request.
- RSICC's customers must provide the physical address of the organization with which they are affiliated. This address is required to validate the organization and for screening the organization as required by the U.S. Federal government. If you are not physically located at the organization, you can provide a comment in the registration and/or request providing the location at which you like the software to be delivered. **US university students can also add a comment clarifying if they are a remote student at this time.** Please note that RSICC cannot license you for the use of software in a country that is different than that of the organization for which you are affiliated. Hence, if you are either studying or working remotely in another country, you should contact our team on how to best proceed.
- Please do not submit multiple requests for software as this only delays the processing of requests. Each customer interaction and communication are required to be saved and multiple requests only add to the work and result in further delays.

- **Please include a justification as to why you need the source code when requesting software from RSICC.** You do not need to submit a request for both the source and executable versions of a software package but need to provide a justification as to why you need the source code.
- Please limit the number of inquiries to RSICC regarding the status of your request. If you received an acknowledgement from RSICC noting that your request has been received, rest assured that the request is in process. RSICC processes requests on a first-come first-served basis. Inquiries regarding the status of a request must be filed and addressed that further delays the team's work.

RSICC staff are only permitted to be physically in our offices a few days per week. Hence, software that must be sent via DVD or RSA tokens for cloud requests will not be mailed out daily. By following this guidance, you will have your request processed expeditiously.

## **SINGLE USER MULTI-ORGANIZATION LICENSE AGREEMENT**

*(Last updated July 1, 2018)*

To support the use of RSICC software by multi-national organizations and international collaborations, RSICC now offers our customers the option to request a Single User Multi-Organization Software License Agreement. The Single User Multi-Organization Software License Agreement addresses issues regarding the "re-export" of software and data packages obtained from RSICC because under Federal export control regulations our customers cannot "re-export" the code to another person in another country.

This agreement is intended to allow our customers to specify additional foreign locations for which they may be approved to utilize RSICC software. In general, the default option will be the standard single user license agreement for the country in which the customer resides and is employed. The following defines the requirements for use of this license agreement.

This SUMO software license agreement is only available for individuals that receive software directly from RSICC. In addition, the point of contact (host or system administrator) at the additional foreign location(s), must be licensed directly from RSICC and must agree to abide by the policies associated with host/server/cluster systems that are summarized following this announcement.

To apply for this license the customer must first register with RSICC and provide full and complete information. When submitting their request, the customer must provide the following information in the COMMENTS section of the request form for each applicable package:

- full name and email address of the point of contact (POC),
- the full name of the organization at which the software will be used, and
- the complete address (no post office boxes) of the organization under which additional access is being requested.

Individuals that would like to utilize this service must have a valid reason for needing this access and provide such justification to RSICC in the END USE statement as well. If this information is not included in the END USE statement, then the customer's request will only be considered for the standard single user license agreement.

When processing the request, RSICC staff will verify that the designated POC(s) has a valid license for the same version of software that is being requested by the applicant and verify that the POC obtained the package directly from RSICC. If the POC, did not obtain the package directly from RSICC, the POC will need to register with RSICC, apply and be approved for the package before the applicant's request can be processed.

The requests will be reviewed for each designated location and a decision will be rendered as to whether a license is granted. If an organization or location is denied, then the customer will be notified and may be limited to the standard single user license agreement for their own organization.

Exceptions:

Persons that have any citizenship of or are in countries that are not listed in Appendix A of 10 CFR 810 are not permitted to utilize the Single User Multi-Organization License Agreement.

Fees:

The customer making the request for the single user multi-organization software license will be required to pay the cost recovery fee for each location at which they are approved. In addition, the POCs at the other foreign locations that have not obtained the software directly from RSICC will have to obtain the software from RSICC and pay the applicable fee.

## **HOST/SERVER/CLUSTER GUIDANCE**

*(Last updated March 1, 2022)*

Software obtained from RSICC is export controlled under the jurisdiction of the U.S. Department of Energy, 10 CFR 810, or the U.S. Department of Commerce, 15 CFR 730-744. Additionally, RSICC distributes this software under guidance issued by the U.S. Department of Energy's Office of Nonproliferation and Arms Control. The distribution and use of RSICC software is restricted and controlled under these regulations and guidelines. Individuals that request the software must be cleared through both an export control and a nonproliferation review process prior to the individual being granted a license to receive software for a specific end use.

The software distributed by RSICC is licensed to individual requestors (Licensee) under a single-user license agreement while employed at the organization listed on the license forms and cannot be transferred to any other individual or entity. The Licensee is responsible for the control, management and protection of the software. The Licensee is responsible for compliance with U.S. export control requirements (laws and regulations) and the terms of the license agreement. This includes preventing access to the software by any individual or entity (including IT staff) as such access may be deemed an export control violation. Individual Licensees should protect the software, documentation, and installation accordingly. Neither the software nor manuals should be posted to the Internet or otherwise be made publicly available. Any and all system administrators that are assisting with the installation and maintenance of a licensed code(s) or that would otherwise have access to a licensed code(s) that is placed on a stand-alone system and/or server/cluster must also be licensed for the exact version of the software that is placed on these systems. Individuals whose duties are only that of a System Administrator are not authorized to be users of the licensed codes(s).

System administrators and/or hosts should implement standard and customary account access and/or file permissions such that only the licensed individuals may access the program. This should include identity and access management, such as multi-factor authentication, to ensure software is kept secure from unauthorized access. Please note that the single-user license agreement is code and version specific. The Licensee must be licensed for the specific version to which they are granted access. For

example, an individual with a license only for MCNP5 should not be permitted access to MCNP6.1. Additionally, some individuals are only licensed for the executable versions of the code(s), and the system administrator(s) must ensure that such individuals do not have access to the source code. Therefore, it is recommended that the source code be removed after installation of the program(s) and furthermore procedures must be implemented such that control software is not lost via decommissioned storage media.

**Network, server, parallel, cluster, or similar installations outside of the United States may not be within a country NOT listed in Appendix A of 10 CFR 810 nor occur at facility identified as an entity under 15 CFR 744.**

RSICC software may be hosted on a server, cluster or high-performance computing system with the following conditions:

1) Each server/cluster operator must designate one individual responsible for oversight of the use of RSICC software on the server/cluster. This individual will be responsible for communicating and reporting to RSICC on an annual basis regarding the users of the cluster/server.

2) Each and every system administrator that would have access to any form (source or executable) must register, request, **and** be approved for the software with RSICC for the version to which they would have access.

3) An authorized and approved system administrator may install and maintain the software and must ensure that the software is not distributed or shared with those who do not have a specific license for the version to which they would have access. System administrators are required to utilize protocols that limit access to the software. Users should only be granted access and use of software to which they have a specific license, e.g. users that have a license for SCALE 6.1 should NOT be granted access to SCALE 6.0 or SCALE 6.2.

4) System administrators are not permitted to provide access to RSICC software to individuals **NOT** located within the same country as the server/cluster **unless the Licensee has an approved Single User Multi-Organization License Agreement from RSICC.**

5) Individuals with citizenship or multiple citizenships that include a country not listed in Appendix A of 10 CFR 810 may be granted access to RSICC software on a server/cluster, if the individual has been approved for access to the software by the U. S. Department of Energy's Office of Nonproliferation and Arms Control.

6) Under no circumstances should an individual with citizenship or multiple citizenships that include a country **NOT** listed in Appendix A of 10 CFR 810 be granted access to RSICC software on the server/cluster, if that individual has **NOT** been approved by the U.S. Department of Energy's Office of Nonproliferation and Arms Control. Additionally, under no circumstances should an individual located at an entity identified under 15 CFR 744 be granted access to RSICC software on the server/cluster.

7) Individuals that have been only granted access to RSICC's secure cloud server **MAY NOT** be granted access to any other server/cluster.

8) When a Licensee requests access to RSICC software on a server/cluster, the system administrator must follow the following process:

(a) The system administrator will require that the Licensee provide proof of a license by requiring that the Licensee provided an electronic copy of either the Single User License Agreement or the Single User Multi-Organization License Agreement. **System administrators cannot provide access to anyone located in another country unless that individual has an approved Single User Multi-Organization License Agreement from RSICC and the organization of the system administrator is listed on the SUMO License Agreement.**

(b) The system administrator must ensure that the Licensee's current installation/affiliation is the same as that on the license agreements.

(c) If the Licensee's current installation is NOT the same as that on license agreements, then access should be denied until the Licensee has updated license agreements with RSICC. This will require the Licensee to update their registration with RSICC and submit a new request with RSICC. The Licensee should not be granted access to the software until they have been authorized. Please note that some approvals are location and organization specific.

9) The system administrator will maintain records of the Licensees that are utilizing the server/cluster and send a record to RSICC (rsic@ornl.gov) that include the Licensee's full name, RSICC customer identification number, installation, and the codes to which the Licensee has access on the system. This information must be provided when the system administrator makes the first request to RSICC to provide such services and must be updated annually by sending updated information to RSICC no later than November 30 of each calendar year. The record should include the customer's full name, RSICC customer number, customer installation as well as request numbers and software package name and identifier for which they are accessing on the cluster.

Server/cluster operators that agree to comply with these conditions may install RSICC software on the server/cluster that are within their corporate/institutional ownership, physical control, and the individual country identified.

## **END USE STATEMENT**

*(Last updated September 24, 2021)*

Customers are strongly encouraged to provide full and complete information regarding the intended end use of the software being requested. End use statements that specify that the code is for research, training or educational activities are not sufficient. RSICC's regulators need to know explicitly for what purpose you intend to use the codes and detail needs to be provided. Requests that lack sufficient detail will be rejected. Please include the type of calculations that you intend to perform e.g., criticality, reactor physics, shielding, dose, etc. and for what types of applications e.g., reactor shielding design, fusion shield design, nuclear medicine, reactor design, etc.

Students that submit requests to RSICC are strongly encouraged to consult their professor or academic advisor as to what purpose they intend to use the codes for their classes and/or their research. Professors are also encouraged to provide such guidance to their students since the professor is responsible for identifying the activities of the students under their tutelage. Professors are encouraged to write an end use statement for their students that describe both the intended use of the code and the applications for which the code will be applied. Providing this information will help to expedite the processing of the request and speed up delivery of the software.

## **REGISTRATION REQUIREMENTS**

*(Last updated July 28, 2020)*

During the registration process, individuals are required to provide the name of the institution at which they will use the software, an institutional mailing address and an institutional e-mail address. RSICC's regulators require us to obtain an address associated with the individual's organization. Due to the

COVID situation, we know that many of our customers are working remotely. If you are working remotely, you may include an alternate mailing address as a comment during the registration process. Please note that you cannot provide an alternate mailing address that is in a country different than that for the organization with which you are affiliated. RSICC cannot register a customer for access to software in a country different than that of the organization with which the individual is affiliated as the single user license and export control agreements are specific to the country in which the organization is located.

## **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>. All levels of participants from undergraduates to faculty are encouraged to publish research papers with their mentors. Please browse through the profiles on the different participants and their research experiences on 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**

### **CONFERENCES**

#### **31<sup>st</sup> International Conference Nuclear Energy for New Europe**

The Nuclear Society of Slovenia in association with the Jožef Stefan Institute, cordially invites you to attend the 31<sup>st</sup> International Conference Nuclear Energy for New Europe. The conference will be held in Portoroz, Slovenia, **September 12 - 15, 2022**.

The conference is an annual meeting of professionals dealing with different aspects of nuclear energy from all around Europe and worldwide. The primary objective of the meeting is to foster international cooperation amongst professionals active in nuclear research and educational institutions, nuclear vendors, utilities, and regulatory bodies.

For more details on this conference, please visit website at <https://www.djs.si/nene2022/>.

## **15<sup>th</sup> Workshop on Shielding Aspects of Accelerators, Targets and Irradiation Facilities (SATIF)**

The Fifteenth Workshop on Shielding Aspects of Accelerators, Targets and Irradiation Facilities (SATIF) will be held 20-23 September 2022 at Michigan State University, East Lansing, Michigan, USA. The SATIF-15 workshop will be hosted by the Facility for Rare Isotope Beams and is an experts' meeting addressing important aspects related to modeling and design of accelerator shielding. Those interested can find additional details at: <https://indico.frib.msu.edu/event/19/>.

## **International High Level Radioactive Waste Management Conference**

The International High Level Radioactive Waste Management Conference will be held 13-17 November 2022 in Phoenix, Arizona, USA in conjunction with the ANS Winter Meeting. As nuclear power is being looked at globally to address climate change, a proactive focus on resolving This conference provides an international forum for the discussion of the scientific, technical, social, and regulatory aspects associated with the storage, extended storage, transportation, recycling, and disposal of used/spent fuel, high-level and other radioactive waste, including decommissioning waste. "back end" of the fuel cycle issues is paramount. Consent-based siting of both centralized interim storage facilities and geologic repositories will be instrumental to fostering this growth. Lessons learned and innovative approaches will be shared amongst participants from industry, government, academia, policymakers, and the interested public. International and student participation are highly encouraged to facilitate knowledge transfer to countries pursuing a nuclear future and to the generation that will be responsible for implementation.

Those interested in this meeting can find more information about the conference on the following website: <https://www.ans.org/meetings/view-313/>.

## **17<sup>th</sup> International Symposium on Reactor Dosimetry**

The Seventeenth International Symposium on Reactor Dosimetry will be held 21-26 May 2023 at École Polytechnique Fédérale de Lausanne (EPFL), Lausanne, Switzerland. The Symposium is being organized by EPFL and is jointly sponsored by the European Working Group on Reactor Dosimetry (EWGRD) and ASTM International Committee E10 on Nuclear Technology and Applications. Those interested can find additional details at: <http://isrd17.reactordosimetry.org>

## **International Conference on Mathematics and Computational Methods Applied to Nuclear Science and Engineering (M&C 2023)**

The International Conference on Mathematica and Computational Methods Applied to Nuclear Science and Engineering (M&C 2023) will be held 13-17 August 2023 at the Sheraton on the Falls, Niagara Falls, Canada. The Symposium is jointly sponsored by the Canadian Nuclear Society and the American Nuclear Society. Those interested can find additional details at: <https://mc2023.com/>.

## TRAINING COURSES



### LANL MCNP6 Class Schedule

Individuals interested in attending or that have registered for these classes are encouraged to contact the organizers regarding any delays or cancellations.

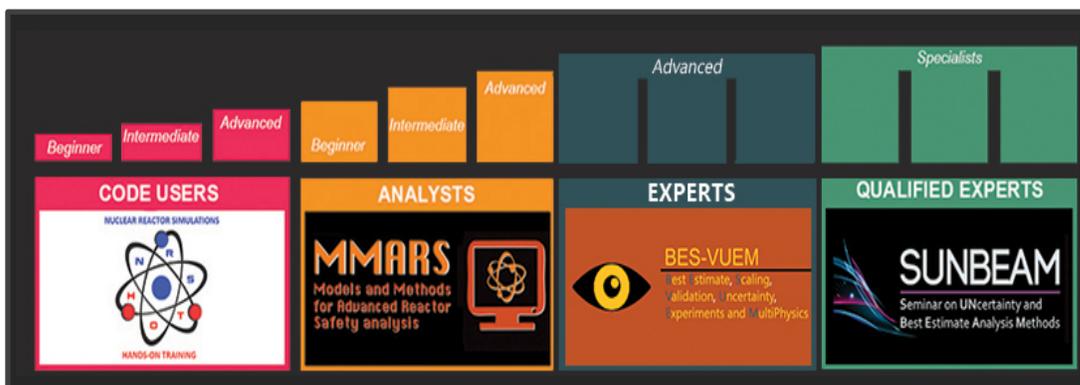
Website: <https://laws.lanl.gov/vhosts/mcnp.lanl.gov/classes/classinformation.shtml>

Jun 6 - 10, 2022 <b>Online</b>	Introduction to MCNP6 (online) Non-US citizens must register by 2022-04-01   Mon 9:00 - Fri 12:00	\$600
Jun 20 - 23, 2022 <b>Online</b>	Criticality Calculations with MCNP6 (online) Non-US citizens must register by 2022-04-15   Mon 9:00 - Thu 4:00	\$600
Aug 22 - 26, 2022 <b>Online</b>	Introduction to MCNP6 (online) Non-US citizens must register by 2022-06-17   Mon 9:00 - Fri 12:00	\$600
Aug 29 - 31, 2022 <b>Online</b>	Using NJOY to Create MCNP ACE Files (online) Non-US citizens must register by 2022-06-24   Mon 10:00 - Wed 5:00	\$600
Oct 3 - 7, 2022 <b>Online</b>	Intermediate MCNP6 (online) Non-US citizens must register by 2022-07-29   Mon 9:00 - Fri 12:00	\$600
Oct 24 - 28, 2022 <b>Online</b>	Introduction to MCNP6 (online) Non-US citizens must register by 2022-08-19   Mon 9:00 - Fri 12:00	\$600
Dec 5 - 7, 2022 <b>Online</b>	Variance Reduction with MCNP6 (online) Non-US citizens must register by 2022-09-30   Mon 9:00 - Fri 12:00	\$600

See the website for more information.

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## Multi-Level Training Program



**NINE** offers attractive **Multi-Level Training Courses** that meet the needs of stakeholders in the nuclear engineering sector, thanks to cooperation with top level international experts who share expertise and competencies gained from their work-life activity in the industry, regulatory bodies and academia. Course programs are oriented towards a wide audience, from PhD students, apprentices, jobseekers to young and senior employees of vendors, utilities, regulatory bodies, national laboratories and consulting companies. For More information visit us at: <https://www.nineeng.com/courses/>

### 6<sup>th</sup> Annual SCALE Users' Group Workshop

Registration is open for the 6<sup>th</sup> annual SCALE Users' Group Workshop that will be held as a hybrid event from Oak Ridge National Laboratory (ORNL), April 27–29, 2022. Please see the meeting website at <https://scalemeetings.ornl.gov> for registration and the draft agenda. The meeting will be offered free of charge to participants. Registration is unlimited for virtual participation. Certain portions of the workshop will be in-person only or virtual only. For in-person participation, you will only be allowed to attend the technical sessions or tutorials you registered for. In-person participation is limited to a total of 50 people per day. The in-person tutorials are limited to 20 participants, and the virtual tutorials have unlimited participation.

You are invited to participate in the meeting and contribute with presentations and discussions on impactful and innovative applications of SCALE. In the “SCALE Open Mic” session participants can present lightning talks and engage the audience in lively Q&As. The “Best SCALE Model Contest” provides an opportunity for all end users to present their most innovative models and compete for special recognition. Models presented previously are showcased in a 2022 SCALE calendar that is available at <https://scalemeetings.ornl.gov/scale-meetings-2021/>.

Contributions for the SCALE Model Contest session require only a single page showing one or more images of a SCALE model. Participants will have 5–10 minutes during the session to provide background on the model, present additional information as desired, and answer

questions. All workshop participants will vote on the 12 best models, which will be used for a SCALE calendar and be displayed on the meeting website. The image(s) can be based on SCALE 6.2 or 6.3 beta rendering. For the SCALE Open Mic session, no formal presentation is required, but presentation slides are welcome as needed. Each participant will be allocated ~5–10 min to present.

Ten hands-on tutorials will be presented. To be able to participate in these tutorials, registrants must have a user license for SCALE 6.2. To participate in the tutorials that require the use of SCALE 6.3 beta (see detailed tutorials description), licensed users for SCALE 6.2 can find information on how to request the 6.3 beta on <https://www.ornl.gov/scale/releases>. Before registering for any tutorial, please verify that you have or are eligible to request the SCALE license that is required for that tutorial. No SCALE license is required to attend the technical sessions.

## **MCNP® 2022 Users Symposium**

We are pleased to announce that the MCNP® 2022 Users Symposium will be held virtually from Los Alamos National Laboratory from October 17 – 21, 2022. The symposium will include presentations from developers focusing on recent and planned capabilities. Additionally, users of MCNP® are encouraged to propose presentations that highlight unique and challenging applications of the code. The hosts intend to utilize a flexible format to accommodate presentations of varying duration.

Please see the meeting website at [www.lanl.gov/mcnp2022](http://www.lanl.gov/mcnp2022) for more information when it becomes available. Please email [mcnp2022@lanl.gov](mailto:mcnp2022@lanl.gov) for any related question or suggestion.

## **SYMPOSIA**

### **2022 CALENDAR**

#### **May 2022**

**International Conference on Physics of Reactor (PHYSOR 2022), May 15 – 20, 2022**, Pittsburg, Pennsylvania. Website: <https://www.ans.org/meetings/physor2022/>

**7<sup>th</sup> International Conference on Nuclear and Renewable Energy Resources (NURER 2022) May 22 – 25, 2022**, Ankara, Turkey. Website: <http://nurer2020.org>

**International Conference on Plasma Sciences (ICOPS), May 22 – 26, 2022**, Seattle, Washington. Website: <http://icops2022.org/>

**FISA 2022 – EURADWASTE '22, May 30 – June 3, 2022**, Lyon France. Website: <https://www.euronuclear.org/project/30-may-3-june-euratom-fisa-euradwaste-2022-lyon/>

### **June 2022**

**2022 CNS Annual Conference, June 5 – 8, 2022**, Virtual Conference, Website: <https://cns-annual-conference.org/>

**2022 ANS Annual Meeting, June 12 – 16, 2022**, Anaheim, California. Website: <https://www.ans.org/meetings/view-312/>

**11<sup>th</sup> International Conference on Isotopes (11ICI), June 19 – 23, 2022**, Saskatoon, Canada. Website: <https://www.11ici.org/>

### **July 2022**

**67<sup>th</sup> Annual Meeting of the Health Physics Society, July 16 – 21, 2022**, Spokane, Washington. Website: <http://hps.org/meetings/meeting53.html>

**IEEE Nuclear & Space Radiation Effects Conference, July 18 – 22, 2022**, Provo, Utah. Website: <https://www.nsrec.com/>

**U.S. Women in Nuclear 2022 Conference, July 25 – 27, 2022**, Richmond, Washington, Website: <https://www.winus.org/news/2022-win-conference/>

### **August 2022**

**North American Particle Accelerator Conference (NA-PAC 2022), August 6 – 12, 2022**, Albuquerque, New Mexico. Website: <https://www.showsbee.com/fairs/63151-IEEE-NAPAC-2022.html>

### **September 2022**

**13<sup>th</sup> International Topical Meeting on Nuclear Reactor Thermal Hydraulics, Operation and Safety (NUTHOS-13), September 4 – 9, 2022**, Taichung, Taiwan. Website: TBD

**2022 North American Particle Accelerator Conference, September 10 – 16, 2022**, Albuquerque, New Mexico. Website: <https://attend.ieee.org/napac-2022/>

**SATIF-15, September 20 – 23, 2022**, East Lansing, Michigan, USA. Website: <https://indico.frib.msu.edu/event/19/>

### **October 2022**

**TopFuel 2022, October 9 – 13, 2022**, Raleigh, North Carolina. Website: <https://www.ans.org/meetings/topfuel2022/>

**64<sup>th</sup> Annual Meeting of the APS Division of Plasma Physics, October 17 – 21, 2022**, Spokane, Washington. Website: <https://engage.aps.org/dpp/meetings/annual-meeting>

**The Nuclear Materials Conference (NucMat 2022), October 24 – 28, 2022**, Ghent, Belgium. Website: <https://www.elsevier.com/events/conferences/the-nuclear-materials-conference>

### **November 2022**

**2022 Nuclear Science Symposium and Medical Imaging Conference, November 5 – 12, 2022**, Milan, Italy. Website: <https://nssmic.ieee.org/2022/>

**2022 ANS Winter Meeting, November 13 – 17, 2022**, Phoenix, Arizona. Website: <https://www.ans.org/meetings/view-313/>

**International High Level Radioactive Waste Management Conference, November 13 – 17, 2022**, Phoenix, Arizona. Website: <https://www.ans.org/meetings/view-313/>