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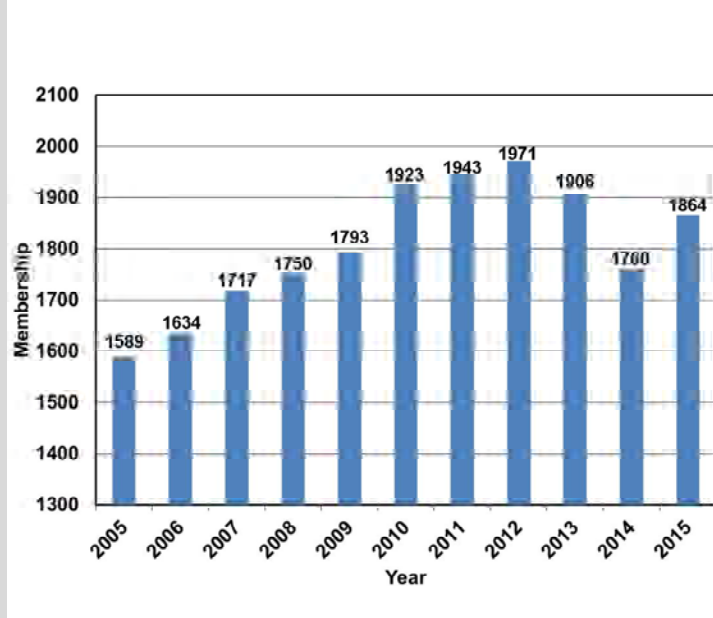
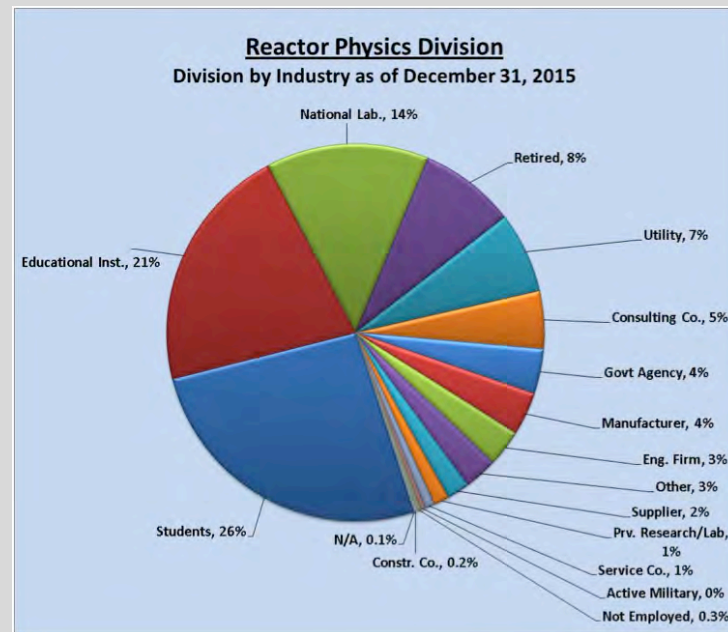
**Treasurer**

**2015-2016**

## Treasurer's Report

The latest RPD financials were received from ANS in November 2015, providing the 3rd quarter financials of 2015. Based on the 3rd quarter financials of 2015 and the anticipated expenses in the remaining of 2015, it is estimated that the RPD 2015 year-end fund balance was \$31,608. The major RPD expenses in 2016 consisted of the following: a) student support (\$2,500 was given to the 2016 ANS Student Conference and \$1,000 was given to the ANS Student Program for assistance to students to attend the 2016 ANS Annual and 2016 ANS Winter Meetings), b) Lineberry Scholarship (a contribution of \$5,000 and \$6,500 was provided in 2015 and 2016, respectively), c) Rudi Stamm'ler Reactor Physics Division Scholarship (\$6,000 was contributed in 2016; the balance in the Stamm'ler fund is about \$33,000). It is expected that the RPD will receive approximately \$3,500 from membership dues and \$42,000 from PHYSOR 2016 this year, and continues to have excellent financial health.

The RPD membership from 2005 through 2015 is given in Figure 1. The RPD membership shows an increase annually from 2005 through 2012, a slight decrease of 3% in 2013, and a larger decrease of 8% in 2014. The decrease in the RPD membership in 2013 and 2014 is mainly attributed to the decrease in the overall ANS membership. Note that even though the number of ANS members in 2014 and 2015 is comparable, the RPD membership increased 6% in 2015, compared to 2014. The RPD 2015 membership allocation by industry shows that the majority of our members are students (26%), followed by members from educational institutions (21%).



# American Nuclear Society Reactor Physics Division

June, 2016  
Reactor Physics Division Newsletter

Todd Palmer, Editor

RPD website: <http://rpd.ans.org/>

## Your RPD Leadership Team

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Ronald Ellis – Immediate Past Chair  
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### Executive Committee

(Terms Expiring June 2016)

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## A Message from the Chair

By Pavel Tsvetkov

<mailto:tsvetkov@tamu.edu>

My dear RPD colleagues, friends,

In this letter we are providing an overview of our division current status, our activities, and plans as well as we discuss our challenges and goals. We welcome our new RPD members, recognize our outgoing officers and our newly elected leadership for the upcoming year to move us forward.

Our Division is doing very well. We are one of the largest ANS divisions. Our numbers remain steady and exhibit respectable growth in these challenging times. We have resources to recognize and support students via a number of established scholarships. We have significant presence at our national meetings and organize very successful and globally recognized topical meetings. PHYSOR Topical Meeting just concluded with a huge success.

As RPD Chair, I think we should be proud of our division efforts and accomplishments and recognize the bright future ahead of us. Being a vital nexus between science, mathematics and engineering, our Division is always going to be at the frontiers of nuclear developments. We will continue contributing theoretical developments and analysis advancing our understanding of reactors as well as facilitating their further generations to come - novel designs, both evolutionary and, sometimes, revolutionary. Our reactor physics craft is both experimental and computational trades fused together. It is an exciting time to be a reactor physicist. Whether you are an experimentalist or simulations expert, you have a role as reactor physicist!

To assure our continued success and our contributions to ANS and our nuclear community, we need to keep being a dynamic division, at the cutting edge, facilitating state-of-the-art papers to our meetings and recognizing the best contributions, supporting efforts and initiatives of our members. We continuously market our division and recruit new members, foster sense of involvement and relevance to every member of our Division as well as to all ANS members.



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We are increasing our interactions with other divisions, our continuous engagement with YMG. We welcome all ANS members to attend our RPD division meetings and would like to make our efforts noticeable and of value and relevance. Let's discuss and collaborate! Let's work together! Through our Division meetings, interactions with members, our topical and national meetings organization and participation efforts we strive towards this objective.

The division leadership team is continuing our focus on strategic and near term goals and plans, our website and social media presence in general, and our engagement with the Division members. We will be further making sure that our RPD day-to-day operations and practices are consistent and passed from year to year learning from the past and keeping our history record. It is vital for us to keep close relation with our seasoned division veterans, senior and mid. career professionals and engage our new talents so that everyone feels welcomed and at

home here and engaged. We hope for a continuous dialog facilitating the exchange of ideas, honest discussion of contemporary opportunities, collaborations and developments. These are the key elements of our success.

Details of our efforts, accomplishments and plans are in this newsletter. See you in New Orleans!

Let's work together,

Pavel Tsvetkov, RPD Chair, 2015/2016

## 2015 ANS Winter Meeting – Executive Committee Meeting



## Program Committee News

By Cristian Rabiti  
[cristian.rabiti@inl.gov](mailto:cristian.rabiti@inl.gov)



### Outgoing and New Members

We would like to thank the following outgoing members of the Technical Program Committee who recently completed three years of service: Dr. Aldo dall'Osso, Dr. Sedat Goluoglu, Dr. Chad Pope, Dr. Wei Shen, Dr. Gerhard Strydom, Prof. Hany Abdel-Khalik, Dr. Jeffery A. Brown and Dr. Moussa Mahgerefeteh.

As by the RPD by law, only during the ANS annual meeting, new members of the Technical Program Committee will be added.

The Technical Program Committee (TPC) would like also to issue a reminder that proposals for special sessions should be made at the Sunday TPC meeting one year in advance. For example, for the next Annual Meeting in Summer 2017, proposals for special sessions are due at the New Orleans Meeting (June 12, 2016). Should you wish to submit a proposal, please contact Cristian Rabiti ([cristian.rabiti@inl.gov](mailto:cristian.rabiti@inl.gov))

The roster of the current membership is included at the end of this newsletter.

Finally, my renewed gratitude and appreciation go to the RPD reviewers, session chairs, special session organizers and panel organizers for their enthusiasm, reliability and unwavering effort. They are the foundation of the many accomplishments achieved by our Division.

A friendly reminder that the call for paper for the Winter 2016 meeting is out and the deadline is June 10 2016.

The roster of the current membership is included at the end of this newsletter.

Finally, my renewed gratitude and appreciation go to the RPD reviewers, session chairs, special session organizers and panel organizers for their enthusiasm, reliability and unwavering effort. They are the foundation of the many accomplishments achieved by our Division.

### ANS 2015 Winter Meeting, Washington, DC

The 2015 Winter Meeting was held in Washington, DC, (November 8-12, 2015). The list of sessions and the number of papers are provided below:

- Reactor Physics Design, Validation, and Operating Experience (two session, 11 papers, organizer Alexander Stanculescu),
- Advances in Fast Reactor Designs and Concepts (one session, 7 papers, organizer Florent Heidet, special session),

- Reactor Analysis Methods (three sessions, cosponsored by MCD, 18 papers, organizer Alexander Stanculescu),
- Reactor Physics: General (four sessions, 22 papers, organizer Alexander Stanculescu),
- Nuclear Data Experiments, Evaluations, and Benchmarks (one sessions, cosponsored by AAD, NNPD, 4 papers, organizer Rian Bahran, special session),
- Physics in Fusion and Sub-Critical Systems (one sessions, cosponsored by FED, AAD, 6 papers, organizer Alexander Stanculescu, special session).

Overall of the 68 papers submitted two have been rejected.

### ANS 2016 Annual Meeting, New Orleans, LA

The venue of the next ANS Annual Meeting will be New Orleans, LA, June 12-16, 2016.

The following session have been sponsored by the RPD:

- Reactor Physics: General: 17 papers over 3 sessions
- Progress Status of Prototype Generation-IV Sodium-Cooled Fast Reactor: 9 papers over 1 session
- Reactor Analysis Methods: 11 papers over 2 sessions
- Reactor Physics Design, Validation and Operational Experience: 4 papers over 1 session

Overall 42 papers where submitted and 41 were accepted.

### Participation in RPD Program Committee Activities

Would you like to be added to the RPD reviewer roster, please send your request to the RPD Program Committee Chairman ([alexander.stanculescu@inl.gov](mailto:alexander.stanculescu@inl.gov)). Our Division can only be successful thanks to the active involvement of its members. I would like to encourage you to continue contributing to the Division's success by submitting technical papers, organizing special sessions, reviewing papers, chairing sessions, and by becoming actively engaged with both Program Committee and general RPD governance activities.

### RPD Best Paper Award (ANS 2015 Winter Meeting)

As usual many excellent papers were submitted, and many excellent presentations were given at the ANS 2015 Winter Meeting. A team of peers reviewed both the papers and the presentations and determined that the paper/presentation: " Uncertainty Analysis of Th-Fueled Sodium-cooled Fast Reactor," by Gerardo Aliberti, Florent Heidet, Nicolas E. Stauff, Taek K. Kim, Temitope A. Taiwo (all Argonne National Laboratory), (Transactions of the American Nuclear Society, Vol. 113, Washington, DC, June 7–11, 2015, Pages 1228-1231) was particularly good and deserving of this Reactor Physics Division award of distinction. Congratulations to the recipients!

## Spring ANS/RPD Election Results

By Dr Ron Ellis (Immediate Past Chair/2016 Nominating Chair – RPD)

We thank all the selected nominees for agreeing to run in the recent 2016 RPD elections for officers and executive committee member positions. The “virtual” turnout for the election was very good. RPD is one of the larger ANS professional divisions with more than 2000 active members. The RPD officers and the new executive committee members will assume their new positions officially at the end of the upcoming 2016 ANS Annual Meeting (New Orleans). RPD members who would like to participate more actively in ANS and RPD are encouraged to consider running in the upcoming 2017 ANS/RPD election. They should express their interest to an RPD officer or executive committee member; in the Fall of 2016, the nominating committee will decide upon a slate of RPD election nominees, and will finalize and submit the list to ANS HQ when the nominees accept to run in the election. The RPD “secretary” position is always a contested position voted upon in the election; in subsequent years, it is intended that an RPD succession schedule (secretary to treasurer to vice chair to chair) is followed. For the executive committee, elections are held to choose usually three new members (US) and one Non-US member.

ANS Reactor Physics Division 2016 Election Results	
 <b>Fausto Franceschini</b> Chair Fellow Engineer, Westinghouse Electric Company	 <b>Arzu Alpan</b> Vice Chair Principal Engineer, Radiation Engineering & Analysis Group, Westinghouse Electric Company, Cranberry Township, PA
 <b>Florent Heidet</b> Secretary Principal Nuclear Engineer, Argonne National Laboratory, Argonne, IL	 <b>Todd S. Palmer</b> Treasurer Professor, School of Nuclear Science and Engineering, Oregon State University, Corvallis, OR.
 <b>Luiz C. Lesi</b> Executive Committee Presently Deputy of the Laboratory of Expertise and Research in Neutron Reactor Applications at the Institut de Radioprotection Sûreté Nucléaire (IRSN), France	 <b>Andrew Worrall</b> Executive Committee Senior Scientist, Reactor Physics Group, Oak Ridge National Laboratory
 <b>Gilles J. Youinou</b> Executive Committee Department Manager, Reactor Physics Analysis & Design, Idaho National Laboratory	 <b>Juan-Luis François</b> Executive Committee-Non-US - RPD Professor, National Autonomous University of Mexico

## ANS Reactor Physics Division Program Committee

Chair  
**Dr. Cristian Rabiti**  
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Idaho Falls, ID 83415-6108  
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Alternate  
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## Reactor Physics Standards

By **Dimitros Cokinos**  
[cokinos@bnl.gov](mailto:cokinos@bnl.gov)

Work has continued on the revision/development of various standards and proposed standards.

The revision of ANSI/ANS-19.1, “Nuclear Data Sets for Reactor Design Calculations” is almost complete. This standard includes recent developments and advances in the nuclear data field. This standard will be the basis for the development of a new international standard under the aegis of the International Standards Organization (ISO). ANSI/ANS-19.3, “Steady State Neutronics for the Analysis of Power Reactors” and ANSI/ANS-19.6.1, “Reload Startup Physics Tests for PWRs”, are on their way to becoming international standards. Transition from ANSI/ANS to the ISO and to meet ISO formatting and other requirements has been completed.

ANSI/ANS-19.4, “A Guide for Acquisition and Documentation of Reference Power Reactor Physics Measurements for Nuclear Analysis Verification” is being revised. This standard provides guidance and criteria for identifying and selecting quality measured data to be used in the validation and verification of computer codes.

Standard ANSI/ANS-19.11, “Calculation and Measurement of the Moderator Temperature Coefficient for Pressurized Water Reactors”, is being reaffirmed

Standard ANSI/ANS-5.1, “Decay Heat Power in Light Water Reactors” continues to have widespread use both here and a broad

Volunteers who are experts in reactor design, predictive calculations and core follow are encouraged to join our working groups. ANS-19 covers wide areas of reactor physics.

Dimitrios Cokinos, Chair  
ANS-19 Reactor Physics Standards

## Honors and Awards

By Dimitros Cokinos

Chair, RPD Honors and Awards Committee

cokinos@bnl.gov

In addition to the "Eugene P. Wigner Reactor Physicist Award" established in 1990, the Reactor Physics Division has recently created the "Early Career Reactor Physicist Award". This new award recognizes major technical accomplishments in the field of Reactor Physics by a person who, at the time of the nomination, is 39 years old or younger. Eligibility requirements and details on submitting a nomination package can be found at the ANS website under the heading of "Honors & Awards".

Members of the Reactor Physics Division may be eligible for a number of other ANS awards. A short list of such ANS awards is given below

- Landis Public Communications and Education Award
- Landis Young Member Engineering Achievement Award (age <40)
- Mishima Award for Scientific/Engineering achievement in Nuclear Fuels
- Arthur Holly Compton Award in Education
- Reactor Technology Award: Recognition for advances in design and safety in reactor technology. This award is sponsored by the AESJ from funds derived from the 1992 topical in Japan.

A more complete list of ANS awards and past winners can be found on the ANS website.

## RPD Scholarship Awards

By Benoit Forget

The Reactor Physics Division is proud to announce the winners of our sponsored undergraduate and graduate scholarships. The Rudi J.J. Stamm'ler undergraduate reactor physics scholarship was awarded to Miriam Rathbun of the University of Pittsburgh, and the Allan Henry / Paul Greebler graduate reactor physics scholarship was given to Joel Kulesza of the University of Michigan.

Please join me in congratulating both Miriam and Joel, and please encourage undergraduate and graduate students to apply for the reactor physics scholarships in the upcoming year.

## Website

By Pavel Tsvetkov

tsvetkov@tamu.edu

The Reactor Physics Division Website is being updated to bring up to date all the areas and to reflect the current division status. The website is accessible at <http://rpd.ans.org>.

The Division is maintaining its Facebook presence as "Reactor Physics Division of the American Nuclear Society". The Reactor Physics Division members are encouraged to join and participate in the group, with postings and discussion. The group is accessible at <https://www.facebook.com/groups/ReactorPhysics/>

The suggestions for member links content items are being solicited.



The ANS M&C 2017 meeting will take place April 16-20, 2017 in Jeju, Korea, which is a beautiful semi-tropical island providing a relaxing and friendly environment. The reactor physics and computational science division (RPCSD) of the Korean Nuclear Society (KNS) will host the conference with the support of the strong nuclear industry of Korea in which 24 power reactors are operating to supply about 35% of the national electricity production. The subject areas span not only the traditional transport and reactor physics analysis methods, but also computational thermal-hydraulics, materials science and fusion to reflect the remarkable advances in the computational methods in various fields of nuclear science and engineering.

## IMPORTANT DATES & DEADLINES

- ▶ Extended Summary: October 15, 2016
- ▶ Review Result: December 17, 2016
- ▶ Full Paper: February 18, 2017
- ▶ Early Registration: March 4, 2017

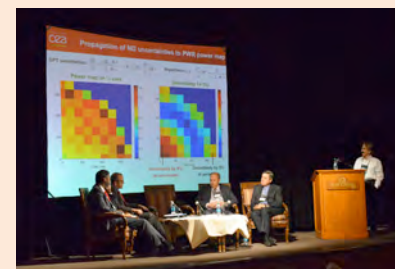
For up-to-date information about this conference, please visit <http://mc2017.org/>.

## PHYSOR 2016 – Sun Valley, ID

PHYSOR 2016 was held in Sun Valley, Idaho, May 15, 2016. By practically all measures, the meeting was quite a success. The meeting consisted of 386 technical papers: 345 oral presentations and 41 posters.



Seven parallel sessions were held each day with a total of 77 technical sessions; each oral presentation was provided a total of 25 minutes including Q&A. The opening Plenary included talks by Dr. Finis Southworth, (Chief Technical Officer, AREVA, retired and NGNP Industry Alliance, also the meeting general chair), Mr. William Magwood IV, Director-General of the Nuclear Energy Agency of the OECD, Dr. Alain Santamarina, Director of Research at Commissariat à l'Énergie Atomique et aux Énergies Alternatives (CEA), Mr. Chris Levesque, President of TerraPower, LLC and Mark Peters, Laboratory Director, Idaho National Laboratory. The meeting hosted 454 attendees (269 from the US) representing 27 countries. Of the attendees 316 were ANS Members and 57 were ANS Student Members.



A total of 122 students attended, with reduced or zero registration fee, all supported by sponsorships. Sponsorship funding totaled just short of \$70,000, provided by AREVA, Westinghouse, TerraPower, NuScale, Exelon, X-Energy, Studsvik, Varian, University of Michigan, University of California – Berkeley and 37 individual contributions totaling to more than \$10,000 from a group identified as the Nuclear Engineering Research and Development Scientists (NERDS). Twelve of the sponsors hosted exhibit booths. With the poster session and breaks held in the exhibit hall, exhibitors had significant traffic and visibility and were very pleased with the number of interactions.

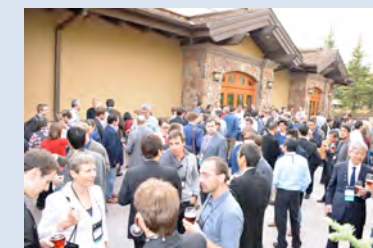
Six technical workshops were offered during the day on Sunday before the meeting, including BISON/MAMMOTH, SCALE, Serpent/OpenMC, RAVEN, DRAGON, and ATILLA. More than 120 individuals participated in the workshops.

Social events included a dinner reception at the River Run Lodge, with gondolas running to the top of Mt. Baldy for an incredible view of the Sun Valley area and the Sawtooth Mountains, a special event dinner at the River Run Lodge with attendees transported by horse-drawn wagons, and a meeting banquet with a Western theme and a live country and western band. Lunches were provided Monday-Wednesday. A tour of INL facilities including the Materials and Fuels Complex, the TREAT reactor and the EBR-I site.

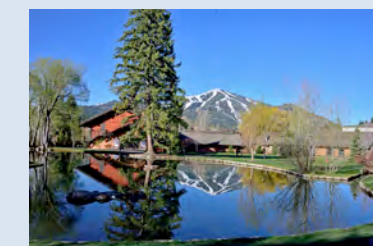
*"I thought the meeting was very well organized with many good technical papers. As usual with such a large number of good papers and many concurrent tracks it was difficult to attend all the papers of interest. This is a sign of a technically very good meeting. Social events were excellent."* – Sedat Goluoglu, University of Florida



*"This was indeed a positive meeting with a wide range of quality technical sessions and papers. The social organization was also great."* – Dan Kotlyar, University of Cambridge



*"Great meeting. The setting was spectacular and it was organized very well. This meeting set a new high mark in the PHYSOR series of meetings."* – Scott Palmtag, Core Physics, Inc.



*"Congratulations on one of the best PHYSORs ever ... and I've gone to them all since Marseille in the 1980s :)"* – Tom Downar, University of Michigan



*"Very good organization of the sessions that were on time and well chaired. The duration of the presentations was ideal. The weather was sunny and the organizer's tie was the most beautiful ever seen."* – Jean-Pascal Hudelot, CEA, France.

