

## Radiopharmaceutical Sciences Council Business Plan FY 2019

### 1) Executive Summary

The Radiopharmaceutical Sciences Council (RPSC) is a group within The Society of Nuclear Medicine and Molecular Imaging dedicated to the interchange of scientific and medical information, ideas and knowledge among Society members who have interest in radiopharmaceutical sciences. This document is the RPSC Business Plan and Budget for FY2019.

### 2) Mission

The overall mission of the RPSC is to:

- Provide a forum for members with similar interests
- Provide expertise in the fields of interest to the membership
- Foster education in research and the application of molecular imaging and the radiopharmaceutical sciences
- Provide outreach to other professionals and organizations
- Nurture new membership into the Society and the Council
- Provide recognition for professionals who have made outstanding contributions in the fields encompassed by molecular imaging and radiopharmaceutical sciences
- Provide continuing education credits for radiopharmacists
- Serve as a resource to SNMMI leadership

### 3) Leadership

#### Officers

David W. Dick, PhD, Council President	2018-2019
Peter J.H. Scott, PhD, Council Vice President	2018-2019
Steven H. Liang, PhD, Council Vice President-Elect	2018-2019
Naga Vara Kishore Pillarsetty, PhD, Council Secretary	2018-2020
Amy Vavere, PhD, Council Treasurer	2017-2019
Weibo Cai, PhD, Council Immediate Past President	2018-2019

#### Board Members

Michael Nickels, PhD	2017-2019
Svetlana Selivanova, PhD	2017-2019
Ephraim E. Parent, MD, PhD	2018-2020
Xiankai Sun, PhD	2018-2020

#### Intern

Emily B. Ehlerding	2017-2019
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### 4) Current Status

#### A. Financial

As of August 3, 2018, the RPSC had revenue of \$40,246, from member dues, poster mixer sponsorships, ERF grants and carryover from FY2017. Projected FY2018 expenses \$29,780. The RPSC & CMIIT Poster Mixer sponsorships totaled \$18,000.

#### B. Membership

As of June 4, 2018, the Radiopharmaceutical Sciences Council has 1512 total members, including 595 paid members, and 917 in-training members with complimentary membership.

<u>Year</u>	<u>Paid Membership Count</u>
2017	563
2016	525
2015	422

### C. Member Benefits

1. RPSC Newsletters
2. \$20 Discount off Fee to Categorical Seminar
3. Contributions to Mid-Winter Educational Symposia
4. Annual Meeting Categorical Seminar and Continuing Education Program
5. Annual Meeting Basic Science Summary Session
6. Annual Meeting Poster-Mixer
7. Annual sponsor of the Berson-Yalow award
8. Annual sponsor of the Michael J. Welch award
9. Annual sponsor of the Michael J. Welch Post-Doctoral Travel Grant
10. Young Investigator Awards
11. LinkedIn Group
12. Website
13. Advocacy to SNMMI

## 5) Accomplishments for FY2018

### A. Education

During the past year the RPSC leadership and members actively participated in the organization and presentation of educational seminars at the 2018 Mid-Winter Meeting in Orlando, FL and the Annual Meeting in Philadelphia, PA. These programs serve as an opportunity to promote the SNMMI and the RPSC as the leader in providing educational programs in radiopharmaceutical sciences with a focus on chemistry and other imaging modalities and increase awareness of the development and uses of radionuclides among the medical community. These programs will also keep SNMMI members abreast of new developments within the field.

The RPSC sponsored the following educational sessions during the 2018 SNMMI Annual Meeting in Philadelphia, PA:

- CE48: Michael J. Welch, PhD Award Lecture - Three Simple Rules to Follow as a Scientist
- CE62: The Science (and Art) of Scientific Writing and Publishing
- CE10: PET Imaging Tracers and Applications in Neuropsychiatric Disorders
- CE20: Field Notes on the Production of PET Radiotracers
- CE34: Nuts and Bolts of PSMA Probe Development
- CE76: Next Generation of Radiometals – Cyclotron Production and Purification

### B. 2018 Basic Science Summary Session

The Radiopharmaceutical Sciences Council with the Center for Molecular Imaging Innovation and Translation (CMIIT) sponsored a Basic Science Summary Session at the 2018 Annual Meeting.

### C. 2018 Awards

Continuing with tradition, the RPSC presented Young Investigator Awards to three promising young scientists, an effort to encourage participation in the Annual Meeting by our talented trainees and new investigators. The top seven Radiopharmaceutical Chemistry Young Investigator abstracts, determined by review score, were presented in this symposium. The RPSC leadership scores the presentations, with the top three presentations receiving an honorarium and a commemorative certificate. The young investigator awards are funded from a grant from the Education and Research Foundation for Nuclear Medicine and Molecular Imaging.

**The 2018 Young Investigator Awards were presented to:**

**1<sup>st</sup> Place Winner: Songye Li**

Abstract Title: "18F-SDM-8: A novel radiotracer for PET imaging of synaptic density"

**2<sup>nd</sup> Place Winner: Irat S. Alam**

Abstract Title: "PET imaging of OX40+ activated T cells predicts therapeutic response in a murine cancer vaccine model"

**3<sup>rd</sup> Place Winner: Maxime Siemons**

Abstract Title: "A new generic platform for PET imaging based on 68Ga-labeled Peptins<sup>TM</sup>: from infectious disease to cancer imaging"

**2018 Berson-Yalow Award** – This year's award was presented to Zhengxin Cai, PhD, for his group's abstract entitled, "*In vivo imaging evaluation of a novel F-labeled SV2A PET tracer in nonhuman primates*" This award honors investigators who submit the most original scientific abstracts and make the most significant contributions to basic or clinical radioassay. This award is funded by the RPSC and is presented during the Basic Science Summary Session at the Annual meeting.

**2018 Michael J. Welch Award** - This award was established in 2009, named after Dr. Michael J. Welch, PhD. The recipient of this prestigious award for 2018 was Robert Mach, PhD. The funding for this award is provided by the Michael J. Welch Foundation.

**2018 Michael J. Welch Post-doctoral travel grant** – This award was presented to the winner, Anders Josefsson, PhD, for his abstract entitled, "*Pharmacokinetic variability of Ac-225 and Bi-213 from vector labeled Ac-225 cancer therapy as a function of vector type (antibody vs. small molecule.*" The funding for this award is provided by the Michael J. Welch Foundation.

**D. 12th Annual RPSC/CMIT Poster Award Session** - The RPSC co-sponsored, for the 12th year, a Poster Session Mixer to encourage poster submissions and scientific interaction with colleagues. This year, sponsorship reached a total of \$18,000 from 16 industry sponsors. The poster presentations were included in the educational program in "meet the author" style. Refreshments and light snacks were served at this fun networking event.

**E. RPSC Intern Program**

For the last year, the intern (Emily Ehlerding) has completed a number of tasks for the RPSC. She has assisted in updating the RCPWiki and the Council's Instagram page. She also assisted in planning a CE session for the Annual Meeting (The Science [and Art] of Scientific Writing), which she also moderated, along with moderating a scientific session at the Annual Meeting as well.

**F. RPSC Board of Directors Communication**

The RPSC Board of Directors (BOD) holds conference calls throughout the year to discuss important matters related to the field of Radiopharmacy and the Council. The RPSC BOD held a very productive retreat in March 2018 in Reston, VA, to discuss several items including: the new RadChemPharmWiki project with the SNMMI Clinical Trials Network (CTN), the Radiopharmaceutical Scientist Qualified Person Program as an international collaborative project with the EANM, proposed education sessions and awards for the 2018 SNMMI meetings, RPSC communications, the new intern project(s), and RPSC board elections.

**E. Collaboration with EANM Radiopharmacy Committee**

The RPSC is working to establish a Qualified Person Training Program (QPTP) for pharmacists and chemists in the production and quality control of PET drugs according to FDA/USP regulatory requirements. This type of program exists in the EU, and is organized through the EANM. There are several sites where coursework can be completed by an attendee. Coursework could be made available through the program, or from other university sites which offer web-based training modules. This will involve basic training in radiopharmaceuticals and regulatory requirements. Hands on training could be accomplished at selected sites. The idea is to have the QPTP be a two-year program. The resolution to proceed with the program was approved by the SNMMI Board of Directors in April 2015. The QPTP is a major focus of the RPSC education program and it will be managed through the SNMMI. The program is geared towards PharmDs and PhD radiochemists with the possibility of including master's level radiochemists.

**6). Goals and Programs for FY2019**

The RPSC continues to demonstrate its resilience, vitality and activity in the tradition of service, innovation and support of radiopharmaceutical sciences. Goal A: SNMMI members are known for

high-quality, value-driven performance and delivery of patient-centered nuclear medicine practice, Goal B: SNMMI has advanced the development and approval of nuclear medicine and molecular imaging technologies and Goal E: Patients and the medical community recognize the value of nuclear medicine, molecular imaging and radionuclide therapy. The focus of RPSC continues to be on developing value for the RPSC membership.

**a. Membership**

The Radiopharmaceutical Sciences Council will continue its efforts to increase membership and make membership in the council more appealing to a wider sector of the SNMMI. The RPSC plans to identify member needs and work on outreach efforts to scientists and to the SNMMI Technologist Section, the SNMMI Young Professionals Committee, as well as other professional groups in the field of Radiopharmaceutical Sciences.

**b. Enhance Communication**

The Council will work on increasing communication among members via email announcements, LinkedIn page and shorter, more frequent newsletter updates. The RPSC is also trying to enhance our members-only website as a benefit of membership. The RPSC board of directors will continue to hold conference calls and meetings throughout the year.

**c. Educational Programs**

The RPSC will continue to sponsor educational sessions at both the SNMMI Mid-Winter and Annual Meetings. These programs will serve as an opportunity to promote the Society and the Council as the leader in providing educational programs in radiopharmacy and radiopharmaceutical sciences and other imaging modalities and increase awareness of the development and uses of radionuclides among the medical community. These programs will also keep Society members abreast of new developments within the field.

**1. 2019 Mid-Winter Meeting**

The RSPC plans to submit a CE session proposal for the 2019 SNMMI Annual Meeting in Palm Springs, CA when the call for proposals is announced.

**2. 2019 Annual Meeting**

The RSPC plans to submit proposals for a categorical session, and organize assigned CE sessions for the 2019 SNMMI Annual Meeting in Anaheim, CA.

**3. Promoting Quality, Value and Safety for Radiopharmaceuticals**

A subcommittee of the RPSC continues to work on a Qualified Person Training Program (QPTP) that would:

- cross train chemists and pharmacists in the alternate skills that are needed, and supplement training for both
- define the skills needed for radiopharmaceutical scientists to improve the quality chain in nuclear medicine
- Further developments of the QPTP will be a major focus of the RPSC education program effort in the coming year.

**d. Improve Scientific Interaction and Outreach Efforts with Young Professionals**

1. Mixer/Poster Session – The RPSC, in collaboration with the YPC and CMIIT, plans to continue to offer the Poster Mixer, at the SNMMI Annual Meeting, in order to further encourage scientific interaction with colleagues. The timing of this event is under consideration for the 2019 Annual meeting.

2. Outreach to Technologist Section – As part of its effort to reach out to the entire radiopharmaceutical sciences field, the RPSC feels that it is important to represent and support the needs of technologists working within the field. As such, the RPSC would like to continue to contribute Continuing Education sessions at future SNMMI meetings. The

RPSC will also continue to increase its communications with technologists through, e-mail, and meetings.

3. **Outreach to Other Groups and Individuals** – The RPSC will continue on-going collaborative efforts with CMIIT and the EANM Radiopharmacy Council. The RPSC co-sponsors educational sessions with other SNMMI Councils and Centers at the SNMMI Mid-Winter and Annual Meetings. The RPSC will continue to include Council members volunteering to present educational seminars at other society meetings, such as APhA and ACS. Leadership will help to identify individuals who are recognized as important leaders in the field who are not currently members of the RPSC and encourage them to join. This interaction will help to identify activities that the RPSC can develop to enhance and increase membership, particularly among radiopharmacists.

**e. Promoting Quality, Value and Safety for Radiopharmaceuticals**

A subcommittee of the RPSC is working on a *Qualified Person Training Program* that will:

- a. Cross train chemists and pharmacists in the alternate skills that are needed, and supplement training for both
- b. Define the skills needed for a Clinical Radiochemist to improve the quality chain in nuclear medicine

**f. RPSC Board of Directors Retreat**

The RPSC is planning a RPSC Retreat for March or April 2019, pending available funding.

**g. RPSC Intern Program**

The RPSC will continue to support the SNMMI Internship program for 2018-2019. The RPSC intern is Emily B. Ehlerding and the RPSC mentor is Steven H. Liang, PhD.

**6) Budget and Resource Requirements**

**a. Summary of Financial Needs**

The attached FY2019 budget summarizes the total resources needed to support the goals set forth in the business plan.

**b. Resource Requirements**

Ongoing SNMMI staff support, materials, technology and marketing support.