1) Executive Summary
The Radiopharmaceutical Sciences Council (RPSC) continues to move forward under the revised governance structure and revision of the Operating Procedures (OPs). The RPSC operating procedures were reviewed and revised by the RPSC Board of Directors (BOD) at the 2014 Interim Meeting. According to the RPSC OPs, the Council must prepare an annual business plan and budget for approval by the SNMMI Board of Directors. This document is the RPSC 2015-2016 Business Plan and Budget for FY2016.

2) Mission
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. 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

<table>
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<th>Position</th>
<th>2015-2016</th>
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<tbody>
<tr>
<td>President</td>
<td>Suzanne Lapi, PhD</td>
</tr>
<tr>
<td>Vice-President</td>
<td>Xiaoyuan (Shawn) Chen, PhD</td>
</tr>
<tr>
<td>Vice-President Elect</td>
<td>Weibo Cai, PhD</td>
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<tr>
<td>Secretary</td>
<td>David W. Dick, PhD</td>
</tr>
<tr>
<td>Treasurer</td>
<td>Peter J.H. Scott, PhD</td>
</tr>
<tr>
<td>Immediate Past President</td>
<td>Neil A. Petry, MS, RPh, BCNP</td>
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<tr>
<td>Board Members</td>
<td>Tayo Ikotun, PhD</td>
</tr>
<tr>
<td></td>
<td>Yubin Miao, PhD</td>
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<tr>
<td></td>
<td>Sally Schwarz, MS, RPh, BCNP</td>
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<td></td>
<td>Amy Vavere, PhD</td>
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<td></td>
<td>Steven Zigler, PhD</td>
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<td>Aileen Hoehne, PhD</td>
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4) Current Status

A. Financial
As of May 31, 2015, the RPSC has a total revenue of $17,571. This includes a stipend of $900 from the 2015 Mid-Winter Meeting. Expenses total approximately $12,342. Revenue is generated through annual membership dues, which are $20.00 per member.

B. Membership
As of June 1, 2015, the Radiopharmaceutical Sciences Council has 2,836 total members, of which, 1,422 are physician/scientists and 1,414 are technologists. The RPSC provides free
memberships to all In-Training members. The RPSC annual membership counts for paid members over the past few years are shown below:

<table>
<thead>
<tr>
<th>Year</th>
<th>Paid Membership Count</th>
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<tbody>
<tr>
<td>2015</td>
<td>422</td>
</tr>
<tr>
<td>2014</td>
<td>399</td>
</tr>
<tr>
<td>2013</td>
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<tr>
<td>2012</td>
<td>302</td>
</tr>
<tr>
<td>2011</td>
<td>420</td>
</tr>
<tr>
<td>2010</td>
<td>424</td>
</tr>
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</table>

C. Member Benefits

1. Bi-annual Newsletter
2. Annual Meeting Categorical Seminar
3. $20 Discount off Fee to Categorical Seminar
4. Annual Meeting 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. Website
11. Young Investigator Awards
12. Young Investigator Travel Awards
13. Council Contributions to Mid-Winter Educational Symposia
14. LinkedIn Group
15. Advocacy to SNMMI


A. Education

During the past year the RPSC leadership and members actively participated in the organization and presentation of educational seminars at the 2015 Mid-Winter Meeting in San Antonio, TX and the 2015 Annual Meeting in Baltimore, MD.

The RPSC sponsored the one educational session during the 2015 SNMMI Mid-Winter Meeting in San Antonio, TX., entitled, “New Radiopharmaceutical Reimbursement – The Next Frontier.”

The RPSC sponsored the following educational sessions during the 2015 SNMMI Annual Meeting in Baltimore, MD:

1. Cutting Edge 18F Labeling Strategies
2. Nanomedicine
3. Dually Labeled Nuclear and Optical Probes
4. Michael J. Welch, PhD, Award and Lecture
5. Current Topics in FDA Reviews and Inspections of PET Drug Manufacturers
6. Moving a Radiopharmaceutical Through the IND Process: From Idea to Approval
7. PET/SPECT Imaging of Cardiovascular Diseases: State of the Art

2015 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 2015 Annual Meeting presented by Suzanne Lapi, PhD; Jonathan McConathy, MD, PhD; Neil A. Petry, MS, RPh, BCNP; Buck Rogers, PhD; and Peter Scott, PhD.
B. 2015 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 2015 Young Investigator Awards were presented to:
1st Place – Adam Shuhendler
2nd Place – Benjamin Rotstein
3rd Place – Songye Li

9th Annual RPSC/CMIIT Poster Award Session - The Council co-sponsored, for the 9th year, a Poster Session Mixer (with financial support from Abbvie; Advion; Becquerel & Sievert Co, Ltd; Blackthorn Associates, LLC; Celloctar Biosciences; e-Century Publishing; Gollman Group; GroundFluor Pharmaceuticals; inviCRO, LLC; Ionetix; isoSolutions Marketing & Management, Inc.; MedChem Imaging, LLC; Navidea; Promega Corp.; TEMA Sinergiel TRACON Pharmaceuticals, Inc.; and UPPI) to encourage poster attendance and stimulate Council membership. This year, sponsorship reached a total of $17,500, which included a $4,000 grant from Navidea and a $4,000 grant from Abbvie. The poster presentations were included in the educational program in “meet the author” style. Refreshments were served at this fun networking event.

2015 Berson-Yalow Award – This year’s award was presented to Matthias Eder, PhD for his group’s abstract entitled, “PSMA-617 – a novel theranostic PSMA inhibitor for both diagnosis and endoradiotherapy of prostate cancer.” This award honors nuclear medicine scientists who have done exceptional research to advance the field of radioimmunoassay. This award is funded by the RPSC and is presented each year during the Plenary lecture at the Annual meeting.

2015 Michael J. Welch Award - This award was established in 2009, named after Dr. Michael J. Welch, PhD. The recipient of this prestigious award for 2015 was Martin W. Brechbiel, PhD. The funding for this award comes from the Education and Research Foundation for Nuclear Medicine and Molecular Imaging.

2015 Michael J. Welch Post-doctoral travel grant – This award was presented for the second time to the winner, Zhibo Liu, PhD, for his abstract entitled, “18F-Boramiño Acids: Promising Traceable Amino Acid Mimics for Cancer Imaging.”

C. RPSC Intern Program
The RPSC interim intern, Ashley Mishoe, PharmD, took over for Jennifer Luther, PhD, to complete the 2013-2015 term. The new RPSC intern for the 2015-2017 term is Aileen Hoehne, PhD. The RPSC mentor to the intern is David Dick, PhD.

D. RPSC Board of Directors Communication
The RPSC Board of Directors (BOD) held 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 April 2015 in Chicago, IL., to discuss several items including: the new Clinical Trials Network (CTN) Database, the Radiopharmaceutical Scientist Qualified Person Program as an international collaborative project with the EANM, proposed education sessions for the 2016 SNMMI meetings, RPSC communications, the new intern project(s), and the review and edits to criteria for several RPSC awards.

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 RPSC will begin developing the proposed outline of the training program to submit to the SNMMI Board of Directors during their fall 2015 meeting. David Dick, PhD, has been tasked with spearheading this effort.

6) Goals and Programs for 2015-2016
The RPSC continues to demonstrate its resilience, vitality and activity in the tradition of service, innovation and support of radiopharmaceutical sciences. The RPSC contributes to Goals A, B, C, D, and E of the SNMMI Strategic Plan. 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 the RPSC LinkedIn page and shorter, more frequent newsletter updates. The RPSC is also trying to enhance our members-only website as a benefit of membership. Additional efforts to increase communication include:

- Hold regular RPSC BOD and business meetings
- Quarterly meetings of the RPSC BOD by teleconference

c. Educational Programs
The RPSC will continue to sponsor educational sessions at 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. 2016 Mid-Winter Meeting
The RPSC has submitted proposals for several continuing education sessions for the 2016 SNMMI Mid-Winter meeting in Orlando, FL. Session topics include: prostate cancer imaging (possibly co-sponsored with Therapy Center of Excellence); Ga-68 imaging agents (possibly co-sponsored with Clinical Trials Network); and a session on the United States Pharmacopeia. Approval of sessions is pending.

2. 2016 Annual Meeting
The RSPC plans to submit proposals for a categorical session as well as several continuing education sessions for the 2016 SNMMI Annual Meeting in San Diego, CA. The RPSC BOD discussed several possible session topics during their April 2015 Board retreat. Session ideas include a categorical session on regulatory affairs, continuing education sessions on: Theranostic nanoparticles, quality initiatives on scans and procedures, next-generation radiotracers for cancer imaging, new small molecules, the Michael J. Welch, PhD, award and lecture, a session on grant writing and one on a career “boot camp.”
3. **On-going collaborative efforts with CMIIT and the EANM Radiopharmacy Council.** Possible areas of collaboration have been discussed including, drafting guidelines and best practices (suggested topics include: sterility and microbiology, GMP regulation and validation, extension to the EU for DART and development of a radiopharmaceutical database shared between both councils), and a Qualified Person Training Program (QPTP).

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. This event stimulates an increase in scientific exchange while having fun.

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 President of the RPSC, Suzanne Lapi, PhD, is an ex-officio, non-voting member of the CMIIT Board of Directors. The immediate Past-President of the RPSC, Neil A. Petry, MS, RPh, BCNP, is a Delegate-At-Large on the SNMMI Board of Directors. 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 Intern Program**

The RPSC will continue to support the SNMMI Internship program for 2015-2017. The new RPSC intern is Aileen Hoehne, PhD and the RPSC mentor is David Dick, PhD. Discussion of intern projects is underway.

7) **Budget and Resource Requirements**

a. **Summary of Financial Needs**

The attached FY2016 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.