

**IEEE NUCLEAR AND PLASMA SCIENCES SOCIETY ELECTION
NUCLEAR MEDICAL AND IMAGING SCIENCES COUNCIL ELECTION
For the Three Year Term 1 January 2016 – 31 December 2018
(Vote for UP to FIVE)**

FRÉDÉRIC BOISSON (M'15) is a Research Scientist at the ImaBio Division of Institut Pluridisciplinaire Hubert Curien. He received his master's degree in Physics from the University of Strasbourg in 2007. He completed his Ph.D. in Physics at the University of Strasbourg in 2010, working in the field of Biomedical Imaging and Instrumentation. This thesis focused on the study and development of a single photon-imaging instrument for measuring the kinetics of new radiopharmaceutical at the preclinical level. The innovative aspect of the chosen instrument was the use of a 1D-segmented crystal, associated with a parallel slat collimator. He then worked as a Postdoctoral Scientist at the Australian Nuclear Science and Technology Organisation in Sydney. His main research focused on the study and optimization of PET quantification with two mice imaged simultaneously in the field of view of the scanner. He also has been an active participant in numerous animal studies, which helped him to improve his knowledge on different imaging aspects, such as the characterization of new radiopharmaceuticals "in vivo", the determination of the tracer biodistribution in the whole body of the animal or the compartmental analysis of tracer in specific organs. In 2014, he became a Research Scientist of IPHC/CNRS in Nuclear Science and kept working in the field of nuclear medicine instrumentation. His work focuses on the development of novel detectors for imaging positron emitting or single-photon emitting tracers, as well as data analysis and image quantification for both preclinical and medical applications.

Statement: As an IEEE member and research scientist, I have participated in the Nuclear Science Symposium and Medical Imaging Conference in 2008 and annually since 2012. Given the active participation and strong commitment that I have demonstrated over the last years at MIC conferences (both poster and oral presentations), I believe that I can make a significant contribution to the Nuclear Medical and Imaging Sciences Council (NMISC). If elected to the NMISC, I will try to engage scientists to participate in IEEE medical imaging activities. 2016 is a key year for me with the organization of the NSS/MIC conference to be held in Strasbourg, France. I will strive to invest myself fully in organizing this major event and would be happy to help manage and promote Nuclear Medical and Imaging Sciences activities as a NMISC council member.

ROGER FULTON (M'92-SM'97) I am a nuclear medicine physicist in the Department of Medical Physics at Westmead Hospital, and a conjoint associate professor in the Faculty of Health Sciences at the University of Sydney. I received a Bachelors degree in physics from the University of Southern Queensland in 1978, a Masters degree in Clinical measurement from the University of Technology Sydney in 1986, and a PhD on the topic of motion-tracking and motion-correction methods for SPECT and PET from the University of Technology Sydney in 2001. I worked as a nuclear medicine physicist at Royal Prince Alfred Hospital from 1979-2008, before moving to my current shared hospital/university position in 2008, which has given greater opportunities to carry out research and interact with students. I have always been excited by the possibilities motion correction offers to improve the quality of medical images, and have had the privilege of working with some of the best physicists and students in the world on motion tracking methods and motion correction algorithms for a range of applications, including human PET, SPECT, CT and MRI and preclinical PET (for awake small animal imaging). Since 2005, I have been awarded a total of \$5.7M in competitive research funding, and authored 65 refereed journal articles, 165 conference papers and abstracts, and 5 book chapters.

Statement: If elected to Nuclear Medical and Imaging Sciences Council (NMISC) I will try to represent the diverse interests of all IEEE members to the best of my ability. I have been a member of the IEEE and NPSS for 24 years and a Senior IEEE member since 1997. I will bring to the Council experience I have gained from attending 15 of the last 17 NSS/MIC meetings, at which I co-authored 64 papers, and previous elected terms on the NPSS Radiation Instrumentation Steering Committee (RISC) (2003-2005) and NMISC (2005-2007). I will also bring the experience of having been a presenter, abstract reviewer, session chair, Assistant Chair, and Topic Convener of the Data Corrections and Quantitative Imaging Techniques track (2014-2015). I am deeply committed to ensuring that NSS/MIC conferences meet Members' expectations, and achieving this by use of up-to-date technology, attracting high quality speakers on topics of broad interest, selecting world-class, yet cost-effective, venues conducive to convenient and effective scientific interaction, as well as catering to the needs of accompanying persons and industrial exhibitors. In addition I will promote the establishment of a fast track to publication of peer-reviewed proceedings.

MATHIEU HATT (GSM'06-M'07) After an initial formation in computer sciences with a focus in image analysis and processing, M. Hatt received his PhD in medical imaging in 2008, and his HDR degree (habilitation to supervise research) in 2012. After being a visiting fellow in the MAASTRO research center in Maastricht, the Netherlands, he was recruited in 2012 by INSERM (the French National Institute for Health and Medical Research) as a researcher in the Laboratory of Medical Information Processing (LaTIM) in Brest, France. M. Hatt is in charge of supervising the activities of the "multimodal modeling for diagnosis and therapy" group (1 post-doc, 3 PhD students). His research focuses on image processing and automated segmentation and characterization for oncology applications (radiotherapy, treatment follow-up, predictive models).

He has published more than 40 original papers, 5 letters to the editor / editorials and 2 review papers in peer-reviewed journals. He received several awards, including the IEEE (French section) 2009 1st prize for best PhD thesis defended in 2008, and several young investigator awards and travel grants from recognized international conferences such as IEEE NSS-MIC, New trends in molecular imaging and nuclear medicine, and the AAPM annual meeting. In November 2014 at the NSS-MIC meeting in Seattle, he received the “Bruce H. Hasegawa Young Investigator Medical Imaging Science Award” presented by IEEE NPSS and NMISC for “contributions to the field of medical image analysis and processing for oncology imaging and radiotherapy applications”.

M. Hatt is a member of IEEE, AAPM and SNMMI. He also acts as a reviewer in about 20 journals of the field, as well as associate editor of the *Medical Physics* journal.

Statement: I have been an IEEE member since 2007 and I have regularly participated as a presenting scientist in the Nuclear Science Symposium and Medical Imaging Conference. I am now willing to commit myself and contribute to the various activities of the Nuclear Medical and Imaging Sciences Council (NMISC). If elected to the NMISC, I will encourage colleagues, students, collaborators, and all scientists I can reach to participate in activities related to IEEE medical imaging. I will promote further scientific and help develop educational activities such as workshops or educational sessions. I will help in selecting recognized experts for plenary sessions. I will be committed to help in managing and promoting Nuclear Medical and Imaging Sciences activities as an active NMISC council member.

WILLIAM F. JONES (M’80-SM’01) is a Senior Key Expert for the Research & Clinical Collaborations Department of the Molecular Imaging Division of Siemens Healthcare. He received both a BSEE (1975) and MSEE (1979) at the University of Tennessee, Knoxville. Prior to his involvement with medical imaging, he worked successfully in several fields - including electronic instrumentation design for fiber testing, environmental monitoring and nuclear power spectroscopy. In 1984, he was part of the first group of 19 employees hired by CTI – later CTI PET Systems, Inc. In 2005 as Siemens purchased CTI, his responsibilities in PET continued. For the last 30+ years and while part of an elite team, William has been principally responsible for the computer hardware architecture employed for coincidence data collection in clinical PET. This meant proposing, designing, debugging, and delivering custom electronics through 6 product generations. He is principal author of 20+ technical papers submitted to (and accepted by) the IEEE. Five of these papers were subsequently published in the IEEE Transactions – i.e. either in Nuclear Science or Medical Imaging. He was also principal inventor of 11 awarded US Patents and co-inventor of 5 more. He is currently responsible for the content of a fully public Siemens-hosted web page dedicated to PET data acquisition and the PETLINK Guideline (www.usa.siemens.com/petlink-references). He is principal author of the PETLINK Guideline – a document which helps foster research collaboration in PET. He is also principal author of several “Walkthrough” examples of C-code utilities - utilities distributed as part of the Siemens JS-Recon/E7-Tools suite to help explain the fundamentals of PET data processing (e.g. rebinning, histogramming, list-mode file formats, etc.) to PET newcomers.

Statement: As an IEEE member, research scientist and product design engineer, I have participated frequently in the Nuclear Science Symposium and/or Medical Imaging Conference since 1985. Since then, I have also been a frequent reviewer of articles for the MIC conference program. If elected I pledge to bring my experience as PET designer, innovator and engineer to the NMISC.

TOM LEWELLEN (M’96-SM’04-F’08) received his Ph.D. in Nuclear Physics from the University of Washington in 1972. At that time, he joined the Division of Nuclear Medicine at the University of Washington working on neutron activation analysis schemes for measuring whole body calcium. Since then, he has worked in many areas of Nuclear Medicine, including detector development (both PET and SPECT), system development (PET – human and animal systems), simulation software development (the SimSET software package), and general issues in quantitative imaging such as scatter correction in positron volume imaging. He is currently a Fellow of the IEEE and an Emeritus Professor of Radiology providing some of the clinical support for our newest SPECT/CT scanners as well as being Principal Investigator on several grants. His publication list includes over 270 articles. He has held many positions as part of the NIMSTC including Chair of NIMSTC (2004-2006), board member, elected ADCOM member (served two terms), Joint oversight committee (site selection) chair 2008-2012, and 2014-2016. He has also held many positions on the annual NSS/MIC conference committee including local arrangements chair (2009), MIC technical chair (1998), General Chair (2005 and 2012), deputy General Chair (2015), Treasurer (2013, 2016).

Statement: I have been involved in the IEEE Nuclear Science Symposium and its expansion to include a separate Medical Imaging Conference in form or another since I started working in Nuclear Medicine in 1972. I have had the experience of holding many positions in support of the NMISTC and the annual NSS/MIC conference as well as the larger picture of NPSS activities as an ADCOM member as well as NMISTC chair - as noted in the biosketch above. We have seen many changes in the way the annual conference site has been selected and the conference committee formed. I firmly believe the NMISTC board should take a much more active role in reviewing the JOS recommendations and providing strong, constructive input to that hard working committee as well as the JES members. Such active work by the board is becoming even more important as we see a downward trend in abstract submission to the NSS/MIC in 2014 and 2015. This downward trend was particularly noticeable in MIC submissions. While we do not know the full reasons, one suspects it is a combination of difficulties in grant funding as well as competition from smaller conferences. Assisting the leadership of the conferences, JOS and JES with proactive, constructive suggestions on how to keep the conference strong and support the breadth of interests of our technical committee members is an important aspect of being a board member and one I would like to help strengthen.

CHI LIU (M'10) is an Assistant Professor in the Departments of Diagnostic Radiology and Biomedical Engineering of Yale University. He received his Ph.D. in 2008 from Johns Hopkins University with emphasis on quantitative SPECT/CT imaging. Following his graduate work, he was a postdoctoral fellow at University of Washington, specializing in oncological PET/CT studies with emphasis on compensation algorithms for respiratory motion. In 2010, he joined Yale University as a faculty member. He is board certified in Nuclear Medicine physics and instrumentation by the American Board of Science in Nuclear Medicine. His current research focuses on quantitative cardiac and oncological PET/CT and SPECT/CT imaging, including reconstruction algorithms, motion correction, dynamic imaging, and translational imaging. The translational and clinical applications of these projects include early detection of chemotherapy-induced cardiotoxicity, multimodality imaging of heart failure, and eliminating respiratory motion variability for assessing response to therapy. Many of the imaging technologies developed in his lab has been or is being implemented in clinical PET and SPECT scanners. In 2012, he was awarded with the Bruce Hasegawa Young Investigator Medical Imaging Science Award from the IEEE Nuclear Medical and Imaging Sciences Council for "contributions to the imaging physics of SPECT/CT and PET/CT, with emphasis in quantitative imaging and motion correction". Currently, he is the PI of multiple ongoing grants from NIH, American Heart Association, and industry.

Statement: It is an honor to be nominated for board membership of NMISC. I strongly support the mission and goals of NMISC. If elected, I will volunteer my time to serve the council and promote its growth. I would like to work with the board to bridge imaging technology developments and clinical sciences, and support early stage investigators, postdocs, and students through educational and scientific activities. I will also actively participate in the planning of IEEE NSS-MIC conference to promote rigorous and dynamic scientific and educational programs.

LING-JIAN MENG (M'01) Dr. Ling-Jian Meng is an Associate Professor at the Department of Nuclear, Plasma, and Radiological Engineering, and affiliated faculty of the Department of Bioengineering, and the Beckman Institute for Advanced Science and Technology, at the University of Illinois at Urbana-Champaign (UIUC). He is also a Visiting Associate Physicist with the Department of Radiology of the Massachusetts General Hospital (MGH), and an Associate Editor for the IEEE Transactions on Medical Imaging (TMI). Dr. Meng obtained his bachelor's degree in Physics from the University of Science and Technology of China in 1995, and PhD in Detector Physics from the University of Southampton in 2001. He has been subsequently working in the Department of Nuclear Engineering and Radiological Sciences and the Department of Radiology at the University of Michigan, Ann Arbor. From 2006, Dr. Meng has been an Assistant Professor at the University of Illinois and was promoted to Associate Professor at 2012. Dr. Meng's research interests is centered on gamma ray detector technology and novel nuclear imaging instrumentations for SPECT, PET and X-ray imaging applications. Some of his recent research projects include the development of a sub-100um single photon emission microscope system, MR-compatible SPECT systems, sub-500 um resolution PET detectors based on CZT and CdTe detectors, and X-ray fluorescence emission tomography techniques.

Statement: As an IEEE member, I have attended every single Nuclear Science Symposium and Medical Imaging Conferences since 1998, previously as paper contributor, and then as reviewers, session chairs and program conveners for emission tomography instrumentations. Given my long-term involvement with the MIC conferences and my background in engineering technologies, I believe that I could contribute to the Nuclear Medical and Imaging Sciences Council (NMISC), in the areas of promoting new detector technologies and image formation techniques for emission tomography and X-ray imaging, and bridging the gap between basic nuclear imaging sciences and other engineering disciplines, such as chemical and material sciences.

If elected to the NMISC, I will try to engage scientists of all ages and sexes to participate in IEEE medical imaging activities. I will try to promote further scientific and educational activities, to ensure quality NSS-MIC joint sessions, and to help select dynamic plenary speakers. I could also provide input to the editorial boards of *TNS* and *TMI*, encouraging them to speed up the review process wherever possible. I would be happy to help manage and promote Nuclear Medical and Imaging Sciences activities as a NMISC council member.

EMILIE RONCALI (M'09) is a Research Scientist at the University of California, Davis. She received her Masters degree from Ecole Centrale de Lyon, France in 2003 and her Ph.D from Ecole Centrale de Paris, France in 2008. Her Ph.D. focused on developing tools for *in vivo* optical imaging, real time and 3D bioluminescence imaging in particular. In 2009 she took a postdoctoral position at UC Davis where she developed nuclear imaging detectors with a particular interest in characterizing novel photodetectors and studying light transport in scintillators using Monte Carlo simulations. The application of her projects ranges from high-resolution preclinical positron emission tomography (PET) to clinical scanners. Dr. Roncali's recent work as a Research scientist at UC Davis includes the optimization of a SiPM-based clinical PET detector for commercial time-of-flight PET scanners. She is currently the Principal Investigator to develop new features of the Monte Carlo toolkit GATE, widely used by the scientific community to model emission tomography scanners. Her work will fill a gap in the field of scintillation detector simulations by allowing accurate modeling of the detector optical properties. Dr. Roncali authored and co-authored 11 articles and more than 20 conference presentations.

Statement: Since I joined UC Davis in 2009 and started working in the field of nuclear imaging, I have been an IEEE member and presented my work at the IEEE Nuclear Science Symposium and Medical Imaging Conference annually. My contributions have gradually increased, with multiple submissions every year. I also contributed to the conference organization as a reviewer since 2010, focusing on the optical imaging, nuclear imaging detectors, and modeling and Monte Carlo simulation. I was also given the opportunity to co-chair an MIC session in 2010 and a joint NSS-MIC session in 2012. As an attendee I have greatly enjoyed the educational activities, and acknowledge the great work done by the NMISC to make that possible. I believe that it is now time for me to put my expertise and enthusiasm at the service of the other attendees through the NMISC, to ensure the high quality of activities proposed during the annual NSS/MIC conference. If elected, I will use my background in optical imaging to engage and bring together a broader community of scientists, as optics and nuclear imaging are deeply intertwined. Lastly, I have been an active reviewer for IEEE TNS for the last three years. As a reviewer and contributing author, I will contribute to improving the review process by giving feedback to the editors – something I have done for the IOP as well. I would be delighted to become a NMISC member and serve the Nuclear Science and Medical Imaging community through those different activities.

CHARLAMPOS TSOUMPAS (GSM'05-M'08-SM'13) is a Lecturer in Medical Imaging at the Division of Biomedical Imaging, University of Leeds since 2013. He received his bachelor's degree in Physics from the National Kapodistrian University of Athens in 2002 and his postgraduate degree in Biomedical Engineering from the University of Patras in 2004. He completed his Ph.D. research at Imperial College London in 2007 working in the field of Parametric Image Reconstruction for Positron Emission Tomography (PET) at Hammersmith Hospital. He then worked as a postdoctoral research fellow at St. Thomas' Hospital, King's College London. In 2014, he became Visiting Assistant Professor at the Translational and Molecular Imaging Institute, Mount Sinai New York where he is involved on combined PET and nuclear magnetic resonance (MR) imaging projects. He has contributions in more than 40 peer-reviewed papers, 30 IEEE conference records and two patents with GE Healthcare. His research interests include statistical image reconstruction and acquisition process modeling for more accurate and precise PET and PET-MR imaging. He is active developer of open access software for tomographic image reconstruction (STIR) and has trained more than a hundred early stage researchers on it.

Statement: As an IEEE senior member and Fellow of Higher Education Academy, I have participated annually in the Nuclear Science Symposium and Medical Imaging Conference (NSS-MIC) since 2004. I have been a reviewer of both the *Transactions on Nuclear Science* and the *Transactions on Medical Imaging*. During the NSS-MIC I organize together with Dr. Kris Thielemans the annual STIR users' & developers' meeting and for a second consecutive year the Short Course on Image Reconstruction.

In one recent IEEE spectrum article, open access software was identified as one of the top ten areas that will prove to be vital for accelerating scientific and technological developments. If elected to the Nuclear Medical and Imaging Sciences Council (NMISC), I will be fully committed in promoting and supporting the idea of more formal representation of open software developments at the NSS-MIC. For example, I promote the introduction of workshops or additional sessions on open access software, associated datasets and corresponding platforms for different imaging modalities where appropriate emphasis will be given on technical aspects. Furthermore, I will seek approaches on how to establish a vibe network within NMISC for defining an evolutionary strategy on utilizing these platforms for fair comparison of existing and new software developments.

SEIICHI YAMAMOTO (M'96) is a professor at the Nagoya University, Graduate School of Medicine. He graduated Nagoya University, Nuclear Engineering in 1980. He worked for Shimadzu Corporation, Japan for 15 years, developing several commercial PET systems. He got Ph.D. from Nagoya University in 1993. He moved to Kobe City College of Technology in 1996 and continued the development of molecular imaging systems. Then he moved to the Professor of Nagoya University, Graduate School of Medicine from 2012. His research interests are developing new imaging systems such as PET, SPECT, optical, and hybrid imaging systems. He developed Si-PM based PET system in 2010 and now he is improving the spatial resolution of the PET systems. He has developed several PET/MRI systems and now he is developing new hybrid imaging systems. He is also trying to expand the research field to imaging on therapy. He is first author of more than 50 and co-author of some other journal articles.

Statement: As an IEEE member and research scientist, I have participated annually in the Nuclear Science Symposium and Medical Imaging Conference since 1996. I have been a reviewer of the NSS-MIC conference program committee since 2004. Given the active participation that I have demonstrated over the last 15 years at MIC conferences as presenting scientist, I believe that I can make a unique and significant contribution to the Nuclear Medical and Imaging Sciences Council (NMISC). If elected to the NMISC, I will try to engage scientists to participate in IEEE medical imaging activities and I will try to promote further scientific and educational activities. I would be happy to help manage and promote Nuclear Medical and Imaging Sciences activities as a NMISC council member.

IEEE NUCLEAR AND PLASMA SCIENCES SOCIETY ELECTION

Election of Members to the Administrative Committee for a Four-Year Term
1 January 2016 - 31 December 2019

PLASMA SCIENCE AND APPLICATIONS (Vote for One)

MONICA BLANK (M'04-SM'13) received the B.S. degree (Electrical Engineering) from the Catholic University of America, Washington, D.C. in 1988, and the M.S. and Ph.D. degrees (Electrical Engineering) in 1991 and 1994, respectively, from the Massachusetts Institute of Technology, Cambridge, MA. In 1994 she joined the Vacuum Electronics Branch of the Naval Research Laboratory, where she was responsible for the design and demonstration of high-power millimeter wave vacuum electronic devices for radar applications. In 1999 she joined the gyrotron team at Communications and Power Industries (formerly Varian) where she continues her work on high-power millimeter wave gyrotron amplifiers and oscillators. Dr. Blank has received several professional awards, including the 1998 Alan Berman Publication Award at Naval Research Laboratory, the Robert L. Woods Award for Excellence Vacuum Electronics Technology in 1999, and an R&D 100 Award in 2015. Dr. Blank has previously served three terms on IEEE Plasma Science and Applications Executive Committee was a Senior Editor for the *IEEE Transactions on Plasma Science* from 2009 – 2015.

Statement: As a long-time researcher in the field of vacuum electronics and a regular attendee of ICOPS, I have a strong and continuing interest in the activities of the IEEE Nuclear and Plasma Society. I have found it extremely rewarding to serve the IEEE and NPSS in various capacities, including several terms as a PSAC member and also as a Guest Editor and Senior Editor for the *IEEE Transactions of Plasma Science*. I very much welcome the opportunity to continue my work with NPSS in a new role as an AdCom representative for PSAC, making sure that the interests of the plasma science community are well-represented in IEEE.

RICKEY J. FAEHL (M'92-SM'01) is retired from Los Alamos National Laboratory, where he worked for 28 years. His research interests were varied but focused on intense charged particle beam theory for applications to high current accelerators, high-power microwave generators, and collective ion generation. He also spent considerable time on design and analysis of experiments using high current pulsed power to implode metallic liners, with applications to both extreme-conditions dynamic materials properties and what is now called Magneto-Inertial Fusion (MIF). Other interests included Laser-Plasma Interactions in the ICF context and plasma processing. He has been active at various levels in NPSS, including serving in all the offices of the local NPSS Chapter, two three-year terms as an elected member on the Plasma Science and Applications Committee (PSAC) Executive Committee, and recently as Chair of the PSAC Executive Committee. Overall, this amounts to four years as Vice-Chair, two years as the Chair and currently the Past Chair of the Executive Committee. He has been actively involved in the ICOPS conference as a Technical Area Coordinator, Session Organizer and regular contributor. He has served as a Guest Editor on a Special Issue of the *Transactions on Plasma Science* (TPS) and regularly reviews articles, for TPS as well as other journals.

Statement: I have been involved with the Nuclear and Plasma Science Society (NPSS) for most of my years of membership in IEEE. Since 2000, I have been actively involved with the Plasma Science and Applications Committee (PSAC) at the Executive Committee level. During this time I have seen dramatic shifts in both the technical emphasis within plasma science in general and within PSAC in specific. For the first 30 years of PSAC's existence, we were dominated by the North American community. Despite the word "International" in ICOPS name, we had never held a conference outside of North America. Since 2002, four ICOPS have been held in other parts of the world. This is incredibly healthy since it is clear that both interest and expertise in Plasma Science have spread throughout the world. In this changing environment, I am impressed by the agility with which NPSS and PSAC have embraced the challenges to exploit the opportunities of this situation. I am running for AdCom to continue to serve both PSAC and NPSS and to represent the interests of the worldwide PSAC community within NPSS.

JOHN L. GIULIANI (M'92-SM'01) received his Bachelor degree in physics and Master degree in Mathematics from Georgetown University. His Ph.D. in theoretical astrophysics was conferred by Yale University in 1980. After postgraduate work at the Institute for Advanced Study and Princeton University, he joined the Naval Research Laboratory in 1983. Since then he has worked and published in various areas of plasma physics including: high altitude nuclear effects; laser target interactions; arc torch remediation of shipboard waste; plasma processing; fluorescent and high intensity light sources; and KrF laser gas kinetics for laser fusion energy. Presently he is Head of the Radiation Hydrodynamics Branch in the Plasma Physics Division where he directs research activities on non-LTE ionization kinetics coupled to radiation transport and Z-pinch magneto-hydrodynamics, with particular emphasis on comparisons with experimental data. Dr. Giuliani was Chair of the Local Organizing Committee for the 7th International Conference on Dense Z Pinches (DZP 2008) and co-Chair of three International Workshops on Radiation from High Energy Density Plasmas (RHEDP 2011, 2013, and 2015). He has been an Associate Editor for the *Physics of Plasmas* (PoP) journal since 2008, and was a Guest Editor of a *PoP Special Topic Section on Radiation from High Energy Density Plasmas* in 2014.

Statement: I have attended the IEEE Conference on Plasma Science (ICOPS) regularly since the late 1980's, as well as many other meetings on plasma physics. In addition to the above service, I have also supported activities sponsored by the IEEE Plasma Science and Applications Committee (PSAC). I was Technical Area Coordinator for the High Energy Density Plasmas and Applications sessions at the International Conference on Plasma Science (ICOPS) 2009. I served as Guest Editor for the fourth and the upcoming sixth *Special Issue on Z-Pinch Plasmas* for the *IEEE Transactions on Plasma Science*, and organized the mini-course at the 2013 ICOPS. Presently I am serving my third year on the PSAC as chair of the mini-course subcommittee. I am running for the Administrative Committee (AdCom) of the Nuclear and Plasma Sciences Society (NPSS) to serve a broader community that includes seven other technical committees besides PSAC. AdCom is responsible for decisions that affect the comprising committees, such as sound conference finance, quality journal publications, and membership. This last item is of particular importance for the broader NPSS community as the number of renewing NPSS members has decreased by 10% during the last five years. The future of NPSS requires a reversal of this trend, particularly by encouraging students to continue as members as they transition to young professionals. As an AdCom member I will represent the interest of PSAC within the larger NPSS community, but also seek to develop outreach activities and other opportunities that justify the cost of membership for young professionals.

PULSED POWER SCIENCE AND TECHNOLOGY (Vote for One)

BRYAN V. OLIVER (M'06) received his Ph.D. in theoretical plasma physics from Cornell University in 1994. Over the course of his career he has worked at the Institute for Non-Linear Science at the University of California, San Diego; the Plasma Physics Division at the Naval Research Laboratory, Washington D.C.; Mission Research Corporation, Albuquerque, New Mexico and Sandia National Laboratories, Albuquerque New Mexico. Presently, Dr. Oliver is a Deputy Director in the Radiation and Electrical Sciences Center at Sandia National Laboratories where he leads the Radiation Effects Sciences and Applications Group. His primary areas of expertise are in theory and simulation of intense electron and ion beam generation and propagation, MHD and electron Hall MHD (EHMHD), Z-pinches, X-ray radiography, Radiation Effects and intense Electromagnetic Pulse (EMP). He has authored or co-authored over 100 publications, received five NNSA Defense Programs Awards of Excellence and a DOE Secretary's Achievement Award. He is a senior member of the IEEE and serves on the IEEE Pulsed-Power Sciences and Technology Committee, the Plasma Science and Applications committee and the International High Power Particle Beams committee. He was General Chair of the 2013 Pulsed Power Plasma Science (PPPS 2013) conference and has served as a technical editor for IEEE, a technical program chair of the Pulsed Power Conference, and as an IEEE Distinguished Lecturer.

Statement: I have benefitted greatly from my 12 plus years in the IEEE and consider membership on the Nuclear and Plasma Sciences (NPSS) Administrative Committee (AdCom) as an opportunity for my continued professional effort to give back to the NPSS community. I have been a member of the Pulsed Power Science and Technology Committee for 9 years and have served the Plasma Science and Applications (PSAC) Executive Committee as well. I was technical program chair of PPC 2009 and General Chair of the joint PPC and ICOPS, Pulsed Power Plasma Science conference in 2013 (PPPS 2013). If elected to the NPSS AdCom, I would work to represent the pulsed power science and technology community as well as support the plasma science and applications community. With presently constrained budgets and severe government travel restrictions associated with technical conferences, it is important that we work to assure sustained research support, IEEE membership and attendance. I will work to help address these issues and provide solutions to enable broader engagement of NPSS.

DAVID WETZ (S'04-GSM'05-M'08) David Wetz, Ph.D., is currently an Assistant Professor in the Electrical Engineering Department of the University of Texas at Arlington. Effective September 2015, he will be a tenured Associate Professor. He earned his B.S. degrees in Electrical Engineering and Computer Science from Texas Tech University in 2003 and then went on to earn his M.S. and Ph.D. degrees in Electrical Engineering from the same in 2004 and 2006 respectively. During his time at Texas Tech he worked as a graduate Research Assistant in the Center for Pulsed Power and Power Electronics where his research focused in the areas of pulsed power system design, pulsed dielectric breakdown of liquids, and ion thruster optimization. He was recognized as the IEEE 2006 Pulsed Power Student of the Year. Following graduation from his Ph.D. program he worked as Postdoctoral Fellow, and later as a Research Associate, at the Institute for Advanced Technology at the University of Texas at Austin. He joined the faculty of the Electrical Engineering Department at the University of Texas at Arlington in 2010 where his research currently focuses on the areas of pulsed power, MicroGrids, and understanding the limitations of using electrochemical energy storage devices in pulsed power systems. He became a voting member of the IEEE Pulsed Power Science and Technology Committee in 2011 and has held the roles of Social Media Chair and Secretary since 2015. He served as a guest editor of the August 2013 Special Issue of the *IEEE Transactions on Dielectrics and Electrical Insulation* (TDEI), the October 2014 Special Issue of the *IEEE Transactions on Plasma Science* (TPS) on Pulsed Power Science and Technology, and will be the guest editor of the October 2016 *Special Issue of IEEE TPS on Pulsed Power Science and Technology*. Additionally, in 2008 he was recognized as an Outstanding Young Researcher at the 2nd Euro Asian Pulsed Power Conference, received an Office of Naval Research Young Investigator Award in 2011, and has been employed as a Summer Research Fellow at the Naval Research Laboratories Ship Systems Engineering Station (NSWC-SSSES) in Philadelphia, Pennsylvania during the summers of 2014 and 2015 respectively. He served as Technical Program chairs for both the 17th IEEE International Electromagnetic Launch (EML) Symposium and the 20th IEEE Pulsed Power Conference (PPC).

Statement: I have been actively engaged in the IEEE NPSS community since 2003 and in the IEEE PPS&T Committee since 2011. I have served as its Social Media Chair since 2013 and as its Secretary since 2015. From my experiences as a student, a researcher, a professor, and a PPS&T committee member, I feel I have gained valuable insight into the workings of the NPSS society and that I have a good feel for where it has been and where it needs to go in the future. If elected to AdCom, I will do my best to represent the pulsed power community and strengthen the community both for us currently serving it but also for the next generation of students I am helping to put out into it upon graduation. I hope to encourage more young professionals to become engaged in NPSS. We need to strengthen the impact factor of several of our journals and ensure that all the integrity the NPSS community has always stood for is maintained with respect to plagiarism and technical content. As a representative of the pulsed power community, I hope to broaden our outreach to encourage more students to participate in our areas of research and strengthen our future. I appreciate your vote!

RADIATION EFFECTS (Vote for One)

KEITH AVERY (M'97-SM'12) is the Program Lead and Section Chief for the Space Electronics Technology (SET) program at the Air Force Research Laboratory. The SET program is focused on developing the electronic technologies necessary to support the evolving needs of the next generation AF satellite programs. This includes in-house research on advanced electronics, development of space experiments for radiation effects, radiation testing (AFRL owns and operates several radiation sources), electronic technology development, program management, Defense acquisition and looking at the larger landscape of electronics for the AF space mission. Mr. Avery works across multiple agencies to help coordinate the development of electronics and develop collaborative efforts for technology research and development. He is the AFRL subject matter expert on radiation hardening and electronics for space. He received his BS degree from DeVry Institute of Technology in 1983. For the first 12 years of his career he worked in the commercial sector designing digital and analog circuits, systems and products for commercial, industrial, and telephony applications. Prior to joining AFRL he worked as a government contractor performing design activities for space experiments, advanced packaging techniques, and radiation effects on micro-electronics. He has authored or co-authored numerous papers on designs for space and radiation effects. He has been a NSREC Short Course speaker and Data Workshop presenter. He has been the NSREC Finance chair in 2012, is the 2015 Data Workshop chair and is the 2016 Industrial Exhibits chair. Mr. Avery is a member of IEEE and NPSS.

Statement: When it comes to NSREC and the radiation community I may be considered one of the youngsters since my first NSREC was in 2000 and I started working the space realm designing radiation experiments in 1995. Early in my career I worked in the commercial sector across a broad spectrum of electronic developments and products. It has provided insight into the world of business and electronics. I took that design experience and translated it into the development of flight experiments for radiation effects on electronics. Since then I have been involved in one form or another in radiation effects. Along the way in the past 20 years I have been associated with small companies, large companies and the Government. I think this allows me to understand things from a variety of viewpoints. We all understand that NSREC is not just a conference among technical people, this is a meeting among friends and colleagues from across a wide range of backgrounds and interests. We also understand that the community is aging. If elected as the NPSS AdCom representative I will work diligently to figure out ways to encourage young engineers to be a part of this community and I will also work to continue the broad representation across academia, industry and Government. As a Government employee I have the opportunity to work across this community and I will use that to help guide the future of IEEE and NPSS. If elected, I would be honored to serve as a member of the NPSS AdCom as a dedicated representative of the radiation effects community.

RONALD SCHRIMPF (M'06) received B.E.E. (1981), M.S.E.E. (1984), and Ph.D. (1986) degrees from the University of Minnesota. He was a faculty member at the University of Arizona from 1986-1996, where he served as Assistant Professor, Associate Professor, and Professor. Ron has been at Vanderbilt University since 1996, where he serves as the Orrin Henry Ingram Professor of Engineering and Director of the Institute for Space and Defense Electronics. Ron has been involved with NSREC since 1987, serving as General Chair, Technical Chair, Awards Chair, Short Course Chair, Short Course Speaker, Session Chair, and Guest Editor. He also served as Chairman of the Radiation Effects Steering Group. At Vanderbilt, Ron has received the Chancellor's Cup, the Harvey Branscomb Distinguished Professorship Award, the School of Engineering Outstanding Teaching Award, and the Chancellor's Award for Research. Ron received the IEEE NPSS Early Achievement Award in 1996 and was elected a Fellow of the IEEE in 2000. He has received five Outstanding Paper Awards at NSREC and two at RADECS. Ron was an Invited Professor at the Université Montpellier II, France, in 2000. He has published approximately 475 papers in refereed journals, with many of these appearing in the *IEEE Transactions on Nuclear Science*.

Statement: I first attended the NSREC in 1987 and since that time I have had the privilege of being involved in the conference, as well as the broader radiation-effects community, in many ways. In my roles on NSREC conference committees, as IEEE representative to RADECS, and as Director of ISDE, I have met a large fraction of the people working on radiation effects in electronics. I have learned the things that make our community special: the emphasis on technical excellence, the camaraderie that exists among the participants, and the welcoming attitude to newcomers. As Chairman of the Radiation Effects Steering Group, I worked to maintain a strong relationship with our colleagues in the other technical areas of the NPSS. If elected as a member of the NPSS AdCom, I will work to enhance the international character of our community, to advocate for programs that help newcomers become integrated into IEEE activities, and to maintain the technical excellence for which NSREC is known.

**For a One-Year Term (to fill an AdCom vacancy)
1 January 2016 - 31 December 2016**

TRANSNATIONAL (Vote for One)

CHRISTIAN BOHM (M'84-AM'08) has been a professor in instrumentation physics at Stockholm University in Sweden since 1987. He is born, raised and educated in Stockholm. He received a Ph.D. in nuclear physics 1979 at Stockholm University where he has had most of his professional career apart from a short period at the Laboratory of Nuclear Medicine in UCLA and a two year period at the technical university (KTH) in Stockholm. His Ph.D. thesis was about applying Mössbauer Spectroscopy for studies of material properties, especially iron surfaces. His work at UCLA involved detector electronics and image reconstruction for PET. After returning to Stockholm he worked together with L. Eriksson developing the first Swedish positron camera. This work continued. The second camera was developed together with the Swedish company Scanditronix who for a while competed with CTI but later sold their PET activities to GE. The latter continued the development of the Scanditronics line of cameras. The commitment to nuclear medicine continued after the appointment as professor in instrumentation physics, but the major part of the activity of the research group concerned instrument development for particle physics. The group has participated in the initial R&D for LHC detectors at CERN and later in the development of the ATLAS detector. Here they worked with the original development of readout electronics for the hadron calorimeter and the first level calorimeter trigger. Later the work continued with their upgrades to adapt to the increased luminosity of LHC. The group has also been involved in instrumentation development for XFEL at DESY and IceCube at the South Pole. His interests are wide covering high speed electronics, software, statistical processes and algorithms as well as fundamental physics.

Principal contributions: His work at UCLA involved developing a filtered back projection image reconstruction method together with Z.H. Cho. This was done at the same time but without knowledge of Shepp and Logans work. In PET he introduced the "wobbling" technique to improve the geometrical sampling in early PET cameras. He developed data acquisition and image reconstruction software for the early Swedish positron cameras. Together with T. Greitz from Karolinska hospital and others he developed a computerized brain atlas. He has been in charge of the Stockholm University instrumentation activities in ATLAS and contributed with many ideas in the area of triggering and data acquisition. He has organized conferences, as deputy program chair for MIC in Lyon 2000, local chair for IEEE RT2005 in Stockholm, been involved in the organization of the following Real Time conferences and been involved in the promotion of *IEEE Trans. Nuclear Science* as reviewer and associate editor. He was a member of RISC 2008-2010, elected member for CANPS in ADCOM 2010-2013 and TNC interim chair 2015.

Statement: The charge of the NPSS Transnational Committee is help promote the internationalization of the NPSS' conferences. Most of them circulate between North America, Europe and Asia and the international participation is steadily increasing. The NPSS membership in the first two is nearly the same but Asia still needs encouragement. International promotion is still needed for Asia-Pacific and for South America and Africa where the participation is very low. The international composition of TNC help to follow how membership and participation varies on national levels. TNC is also involved in promoting national workshops, visits of distinguished lecturer and the formation of local chapters around the world. In the middle of a one year appointment as interim chair of the NPSS Transnational Committee I seek to continue the interesting work in a full term.

MAXIM TITOV (AM'03-M'04-SM'11) is a staff scientist at the CEA Saclay (since 2007), the French Atomic Energy Commission. During more than 20 years of working in High Energy Physics, he has been involved both in the development of novel detector technologies and analysis of physics data from collider experiments, within large collaborations in the international research centers. Since the beginning of his carrier, he contributed to the HERA-B Experiment at DESY (Hamburg), D0 Experiment at Fermilab (Chicago), ATLAS, CMS Experiments and RD51 Collaboration at CERN (Geneva), and International Linear Collider Project. Dr. Titov followed a large variety of projects from conceptual design through construction, assembly, system integration to commissioning and maintenance of complex instrumentation systems. He is an author of more than 800 publications, including review papers and monographs on modern detector technologies. An important component of his experience includes management of large scientific collaborations. Since 2008, Dr. Titov was elected for the four consecutive terms as the spokesperson of the RD51 collaboration at CERN "Development of Micro-Pattern Gaseous Detectors", which consists of 500 scientists from 90 Universities and Research Laboratories world-wide.

Dr. Titov is a Senior IEEE Member since 2011. He is actively involved in the NPSS through participation and organization of the annual IEEE NSS/MIC Conference (since 2002). Dr. Titov has served twice as a Deputy NSS Program Chair (2003 and 2008), NSS Program Chair (2012) and will serve as the General Chair of the 2016 IEEE NSS/MIC/RTSD Symposium in Strasbourg, France. He was elected twice as the member of the Radiation Instrumentation Steering Committee (2007-2009 and 2012-2014) and served as the Deputy Chair of the IEEE NPSS Trans-National Committee (2005-2012).

Statement: The IEEE NPSS has been a very important part of my research and career development. If elected to the AdCom, I will exert my best efforts to strengthen the global importance of the NPSS community with a special attention towards NSS/MIC meetings to be held outside of the USA. I'll strongly encourage interdisciplinary communications between radiation detection instrumentation and medical imaging fields, and strive to enhance international cooperation and participation in the NSS/MIC. I would strongly attract and support young scientists to contribute more actively into the life of the IEEE NPSS society. I believe that my background in detector instrumentation and large international collaborations, my organizational skills, and interest to multidisciplinary research could be very useful to the NPSS community, if I elected.

**IEEE NUCLEAR AND PLASMA SCIENCES SOCIETY
PARTICLE ACCELERATOR SCIENCE AND TECHNOLOGY EXECUTIVE COMMITTEE ELECTION**

**Members-at-Large to the PAST ExCom
For the Four-Year Term 1 January 2016 – 31 December 2019
(Vote for ONE)**

PAOLO CRAIEVICH (M'11-SM'12) is a research engineer at Paul Scherrer Institute (PSI) in Switzerland where he is working in the radiofrequency group for the Swiss FEL project and for the Swiss Light Source synchrotron storage ring. His research interests include microwave applications to accelerators, such as cavities and travelling wave accelerating structures, rf photo and thermionic guns, wakefield, instability and coupling impedance. He is currently involved in the design of the deflecting structures, dielectric-loaded waveguide and serves as a physics liaison support for the rf systems. During his career he was also a staff member at Sincrotrone-Trieste in Italy where he served as S-band structures lead engineer in the FERMI@Elettra FEL project and as a member of the FERMI commissioning team. He has also collaborated in research activities with the Department of Electrical Engineering at University of Trieste, Italy, and has served as tutor and supervisor of PhD and master degree students. He studied electronic engineering at the University of Trieste, Italy, and received his PhD. degree in applied physics from University of Technology in Eindhoven, Netherlands. He is a senior member of the IEEE and a member of NPSS and is author of more than hundred publications on peer-reviewed international journals and on international conference proceedings. Actually I am also serving as an associate guest editor for the special issue of the *IEEE Transactions on Nuclear Science* (TNS) that commemorate the 50th anniversary of the original particle accelerator conference (PAC).

Statement: I have research experience in electromagnetics and technology applied to particle accelerators and, if elected, I would like to serve our society as a member of the PAST Technical Committee (TC), to encourage and promote the exchange of ideas and to spread the knowledge in the applications of particle accelerator science, engineering and technology. Specifically, as your Member-at-Large, I will continue to expand the European and student member base of NPSS PAST and encourage our colleagues to publish technical updates in the NPSS newsletter. I have personally benefitted from many contacts in NPSS PAST that have led to useful collaborations and joint effort. I will also strive to convey the importance of PAST in building these personal bridges that have led to career growth. Further, I have benefitted immensely from attending and presenting at IEEE sponsored or IEEE co-sponsored conferences for many years and will work with the PAST-TC to insure the quality and continuation of the conferences. Finally, I will be working with the TC members and PAST members to help identify and both promote members to the Senior and Fellow levels as well as for awards. Lastly, I am really honored to be nominated as a candidate for the PAST-TC.

GEORGE R. NEIL (M'07-SM'12) received his PhD in Nuclear Engineering from the University of Wisconsin. After 13 years in the aerospace industry in California he joined Thomas Jefferson National Accelerator Facility in Newport News, Virginia where he is presently employed. He served as Linac Department Manager during the construction of the CEBAF accelerator and subsequent to this worked to develop the Jefferson Lab Free Electron Laser. This FEL achieved what remains world-record high power lasing and became the first operational high-average-current energy-recovering linac. He recently served as the manager of Jefferson Lab's program supporting the construction of 50% of the superconducting linac and the cryogenic refrigerator system for the LCLS-II FEL effort at SLAC. He is past winner of the Free Electron Laser Prize and a Fellow of the American Physics Society. He is a Senior Member of IEEE, past Editor of the Elsevier journal, *Infrared Physics and Technology*, and Member of the Board of Directors of the International Society for Infrared, Millimeter, and Terahertz Technology. He leads the Future Light Sources Committee of the International Committee on Future Accelerators. He served this past year as PAST TC Member-at-Large.

Statement: Over many years I have seen support for development of accelerator technology fade from high priority at our national funding agencies. Even in the best years support still lacked coherence and breadth. Despite regular studies and reports showing the national economic benefits from this technology, the topic has been only haphazardly addressed. Accelerator technology is taught at only a few graduate schools and in the USPAS and similar topical schools. This has improved slightly in the last few years but there is still a long way to go. There are many planned major construction efforts over the next decades utilizing accelerators for nuclear and high energy physics as well as potential applications in basic energy sciences, medicine, and industry. We need a trained workforce and scientific innovation in this field. I hope to encourage education for students and support for young researchers in accelerator science and related fields. I also believe the IEEE has a role in encouraging accelerator science and technology development support by our national funding agencies through publicity to our legislative bodies. We can also do this by promoting a broader appreciation for the benefits of the field.

IEEE NUCLEAR AND PLASMA SCIENCES SOCIETY
PLASMA SCIENCE AND APPLICATIONS EXECUTIVE COMMITTEE ELECTION
For the Three Year Term 1 January 2016 – 31 December 2018
(Vote for UP to SIX)

NADER BEHDAD (S'99-M'06-SM'12) received the B.S. degree in Electrical Engineering from Sharif University of Technology in 2000 and the M.S. and Ph.D. degrees in Electrical Engineering from University of Michigan - Ann Arbor in 2003 and 2006 respectively. Currently he is an Associate Professor at the Electrical and Computer Engineering Department of the University of Wisconsin-Madison. From 2009-2013 he was an Assistant Professor at the Department of Electrical and Computer Engineering of the University of Wisconsin and from 2006 to 2008, he was as an Assistant Professor at the Department of Electrical Engineering and Computer Science of the University of Central Florida in Orlando, FL. Dr. Behdad's research expertise is in the area of applied electromagnetics. In particular, his research interests include Antennas, High-Power Microwaves, Biomedical Applications of Microwaves, and Metamaterials.

Dr. Behdad is the recipient of the 2014 IEEE R. W. P. King Prize Paper Award and the 2012 IEEE Piergiorgio L. E. Uslenghi Letters Prize Paper Award. He is also the recipient of the 2011 CAREER award from the U.S. National Science Foundation, the 2011 Young Investigator Award from the United States Air Force Office of Scientific Research, and the 2011 Young Investigator Award from the United States Office of Naval Research. He received the Office of Naval Research Senior Faculty Fellowship in 2009, the Young Scientist Award from the International Union of Radio Science (URSI) in 2008, the Horace H. Rackham Predoctoral Fellowship from the University of Michigan in 2005-2006, the best paper awards in the Antenna Applications Symposium in Sep. 2003, and the second prize in the paper competition of the USNC/ URSI National Radio Science Meeting, Boulder, CO, in January 2004. His graduate students were the recipients of the ten different awards/recognitions at the IEEE Pulsed Power & Plasma Science (2013), IEEE AP-S/URSI Symposium (2010, 2012, 2013, 2014), and the Antenna Applications Symposium (2008, 2010, 2011). Dr. Behdad is currently serving as an Associate Editor for *IEEE Antennas and Wireless Propagation Letters* and served as the co-chair of the technical program committee of the 2012 IEEE International Symposium on Antennas and Propagation and USNC/URSI National Radio Science Meeting.

MARK GOLKOWSKI (AM'10-M'13) received his B.S. degree in electrical engineering from Cornell University, Ithaca, NY in 2002 and his M.S. and Ph.D. degrees in electrical engineering from Stanford University, Stanford, CA in 2004 and 2009, respectively. He served as a Postdoctoral Research Fellow with the Space, Telecommunications, and Radioscience Laboratory, Department of Electrical Engineering, Stanford University from 2009-2010. Dr. Golkowski is currently an Assistant Professor at University of Colorado Denver in the Department of Electrical Engineering and also Bioengineering. He actively conducts research on electromagnetic waves in plasmas, ionospheric physics, near-Earth space physics, characterization of antennas in reverberation chambers, hybrid imaging technologies, and biomedical applications of gas discharge plasmas. Dr. Golkowski is associate editor of the journal *Earth, Moon, Planets*. Dr. Golkowski was recipient of International Association of Geomagnetism and Aeronomy (IAGA) Young Scientist Award for Excellence in 2008, IEEE Electromagnetic Compatibility Society Best Symposium Paper Award in 2011 and National Science Foundation CAREER Award in 2013. Dr. Golkowski is a member of the American Geophysical Union, the International Union of Radio Science (URSI) Commission H (Waves in Plasmas), and IEEE.

JEFFREY HOPWOOD (M'90-SM'03-F'06) received a PhD in electrical engineering from Michigan State University in 1990 in the areas of electron cyclotron resonance plasmas and plasma processing of semiconductor materials. He is currently a Professor in the ECE Department at Tufts University, Medford, MA and has served as department chair between 2007 and 2012. Professor Hopwood has co-authored more than 65 peer-reviewed journal articles and holds 10 U.S. patents in plasma devices and processes. He now specializes in microplasma physics and device design by combining expertise in plasma, microwave circuits, and applied physics. Two of these microplasma devices are under license to a manufacturer of vacuum monitoring equipment. His current work is funded through industrial support as well as grants from DARPA, ONR and AFOSR. He was a member of the PSAC Executive Committee (2000-2002), a Technical Area Coordinator for ICOPS (2006-2007), Program Vice Chair of the International Symposium of the AVS (1996), and other professional service including Chair of the International Scientific Committee for the International Workshop on Microplasmas (2013-2015).

FELIPE IZA (S'03-M'04-SM'11) received the B.S. degree in engineering from the University of Navarra, San Sebastian (Spain), in 1997, and the M.S. and Ph.D. degrees from the Northeastern University, Boston MA (USA), in 2001 and 2004, respectively. From 2004 to 2006, he was a Postdoctoral Fellow in Pohang University of Science and Technology, Pohang (Korea), where he became a Research Professor in 2006. Since 2007, he is with the School of Electronic, Electrical and Systems Engineering, Loughborough University, Leicestershire, U.K, where he is currently the Director of Research Programmes and acting Associate Dean for Research. His research interest is focused on experimental and computational low-temperature plasma physics and engineering, with special attention to microplasmas and atmospheric discharges for biomedical and environmental applications. Dr. Iza is a Fulbright alumnus, a member of Coalition for Plasma Science, the American Vacuum Society (AVS), the Institute of Physics (IoP) and a Senior Member of the Institute of Electrical and Electronics Engineers (IEEE). He has served as program committee member (Division of Plasma Science and Technology) of AVS'09 and the UK Technological Plasma Workshops TPW'08-'14, as treasurer and local organising committee chair of ICOPS 2012, as local organising committee member of the UK Pulsed Power Symposium 2014 and he serves in the programme committee of the 27th Symposium on Plasma Physics and Technology (Prague 2016) and the management committee member of the European COST action TD1208.

MICHAEL G. MAZARAKIS (M'75) is an IEEE life member and [emeritus member](#) of the executive committee of IEEE Power Modulation Conference. He is principal member of the technical staff in Sandia National Laboratories, Pulsed Power Center. Currently is senior project physicist of the radiographic Self Magnetic Pinch (SMP) diode research. He has done pivotal research in nuclear physics and technology, nuclear astrophysics, particle beam physics, accelerator development, z-pinch physics, and magnetic and inertial fusion, and developed and successfully directed for several years the Sandia radiographic program. Before joining Sandia National Laboratories he was research physicist at the Argonne National Laboratory (1976-81), and before that he was vice president and director of the experimental program at the Fusion Energy Corporation (FEC), Princeton, NJ. He holds a summa cum laude bachelor and master degree in physics from the National University of Athens, Greece, a PhD in Nuclear Physics from the University of Paris (Sorbonne), France, and a second PhD in Physics from the University of Pennsylvania, Philadelphia. He did postgraduate work at Princeton Physics Dept. where he had the opportunity to take advance physics courses with the Nobel laureate's professors James W. Cronin and Van. L. Fitch, and in the University of Pennsylvania with Robert J. Schrieffer. He has published more than 200 papers in referee magazines and conferences. He is member of the American Physical Society and of the divisions of Plasma Physics and Particle Beams.

SAL PORTILLO (M'07) received a BS in Physics from University of Texas, El Paso followed by his Ph.D. in Atomic Physics from Texas Christian University in 2003. Following his Ph.D., he spent four years in a postdoctoral position at Sandia National Laboratories, where he worked on time-resolved diagnostics for charged particle beam radiographic sources, compact pulsed power, and HPM effects on electronics. Next, he spent seven years at the Naval Surface Warfare Center, Dahlgren, VA, where he worked on developing compact pulsed power and compact HPM sources based on crossed field topologies, nonlinear dielectric materials and spark gap based broadband oscillators. Currently, he is a research professor at the University of New Mexico, where he helped to develop a sub-MeV accelerator driven by a high energy Marx generator and is employing time-resolved electrical, radiological, spectroscopic and interferometric diagnostics to study the temporal and spatial evolution of plasmas in the A-K gap. Additionally, he is working on HEDP applications, radiographic diagnostics and compact spark gap triggers for large accelerators.

Dr. Portillo has been an active member of IEEE and the American Physical Society since 2003. He has served as a session chair at numerous conferences, and as Treasurer for the 2013 Power Modulator Conference. In 2013, he was appointed membership chair for the IEEE Nuclear and Plasma Sciences Society. In this capacity, he has focused on expanding international memberships from countries not currently well-represented, including Mexico, Central America, and Central Asia, and on attracting women members to the IEEE and building programs to strengthen their participation. He was lead organizer for an outreach program for local, grade school students in Albuquerque, NM in 2007 and was an instructor for a short course tutorial on charged particle beams at ICOPS 2015.

RAJDEEP SINGH RAWAT (M'11) received his PhD degree in Physics from University of Delhi, India in 1994. He is currently an Associate Professor in Physics and Deputy Head (Research and Postgraduate Matters) in NSSE/NIE, Nanyang Technological University (NTU), Singapore. He is an experimental plasma physicist with expertise on Dense Plasma focus (DPF) and Pulsed Laser Deposition (PLD) facilities for fundamental studies on plasma dynamics and radiation/particle emission and also worked extensively on wide variety of applications of these devices such as: high rep rate portable neutron source, radioisotopes synthesis, soft x-ray lithography, soft and hard x-ray imaging and pioneered the field of material modification and nano-structured material synthesis using plasma focus devices. He leads the plasma radiation sources lab group at NTU, secured 26 local/international/industrial research grants, published over 170 journal papers with H-index of 24 and Web of Science citations of about 2050.

Dr. Rawat has organized several international workshop/conferences/symposiums in Singapore and was Chair for IWPDA-2009, FPPT5-2011, iPlasmaNano-III-2012, ICPSA-2013. He is also the General Chair for IEEE ICOPS2020 in Singapore. He has given more than 40 plenary/keynote/invited talks and served as member advisory committee and international scientific committee for over 20 conferences. He has served as Guest editor of Special Issue of IEEE Transactions on Plasma Science and also as Editor for four other conference proceedings. He is the recipient of Cadi Scientific Award by Institute of Physics Singapore and has thrice received Commendations for Excellence in Teaching at NIE/NTU. He is currently the President of Asian African Association for Plasma Training which has 52 member institutions in 24 countries which promotes collaborations in plasma science and technologies among its member institutions. He was its secretary for eight years. He also serves as Secretary of Institute of Physics, Singapore and Council Member for Singapore National Academy of Sciences.

REBECCA SEVIOUR (M'03) currently holds a research chair in the International Institute for Accelerator Applications at the University of Huddersfield (UK), and is the current chairperson of ThorEA. Previously she has held the Lise Meitner chair at Lund University (Sweden), and worked at the Universities of Lancaster (UK) and Manchester (UK) and at Culham (UK). Working on research topics from; neo-classical tearing modes in tokamaks, to interactions in the ionosphere, to parasitic effects in vacuum electronics.

At present her research interests focus on two main areas, her primary research area is particle wave interactions mediated by novel materials and electromagnetic structures. The second area is novel accelerator schemes for industrial applications, such as medical isotope production, Proton therapy, and novel neutron production sources for security screening.

TAO SHAO (M'10-SM'12) was born in Hubei, China, in 1977. He received the B.Sc. degree from the Wuhan University of Hydraulic and Electrical Engineering, Wuhan, China, in 2000, the M.Sc. degree in electrical engineering from Wuhan University, Wuhan, in 2003, and the Ph.D. degree in electrical engineering from the Graduate University, Chinese Academy of Sciences (CAS), Beijing, China, in 2006. He was a Visiting Scholar with the ECE Department in the University of New Mexico, Albuquerque, NM, USA, from 2011 to 2012. He is currently with the Institute of Electrical Engineering, CAS, after graduation. He is a Professor the Institute of Electrical Engineering, CAS since Oct. 2013. His current research interests include high-voltage insulation, gas discharge, plasma application, and measurement.

Dr. Shao is a Senior Member of the IEEE and the Chinese Society of Electrical Engineering. He was the Member of Youth Innovation Promotion Association of Chinese Academy of Sciences since 2011-2014. He was a recipient of the 2012 Lu Jiayi Young Talent Award at CAS K. C. Wong Education Foundation. He worked as PI supported by the Excellent Science Foundation from the National Natural Science Foundation of China. He was awarded Royal Society-Newton Advanced Fellowship (NA140303), UK, in 2015. He was a Session Co-chair of the 2013 IEEE Conference on Electrical Insulation and Dielectric Phenomena, a Session chair and Member of Technical Program Committee of the 2014 IEEE International Power Modulator and High Voltage Conference, and a Session Organizer of Session 1.6 Plasma Chemistry in the 42nd IEEE International Conference on Plasma Science (ICOPS 2015), and Member of Program Committee of the 12th International Conference "Gas Discharge Plasmas and Their Applications". He is an Editorial Board Member of the *Laser and Particle Beams*, and some domestic journals including the *Transaction of China Electrotechnical Technology*, the *High Voltage Engineering*, the *High Voltage Apparatus*, and the *Insulating Materials*. He served as a Co-guest editor in the August 2015 issue of the *IEEE Transactions on Dielectrics and Electrical Insulation* on Power Modulators and Repetitive Pulsed Power, and a Co-guest editor in the April 2016 issue of the *IEEE Transactions on Plasma Science* on Invited and Plenary Speakers of ICOPS 2015.

TATYANA SIZYUK (M'12-SM'13) Dr. Tatyana Sizyuk, IEEE Senior Member, obtained her Ph.D. degree in Physics in 2014 from the University of Rzeszow (Poland) and M.Sc. degree in Applied Mathematics in 1988 from Byelorussian State University in Minsk (Belarus). She is currently Assistant Professor at the School of Nuclear Engineering, Purdue University, teaching the courses on computational methods in engineering applications. Prior to that she worked at Argonne National Laboratory, Math and Computer Science Division, performing computer simulation of advanced nuclear energy systems and plasma physics applications.

Her current major research includes models development and computer simulation of beam-target interactions, laser and discharge-produced plasmas for industrial and medical applications such as advanced nanolithography, water-window microscopy, modeling of material erosion, plasma radiation and hydrodynamic confinement for fusion applications, and laser induced breakdown spectroscopy (LIBS) for nuclear material detection. She has developed and enhanced several models and computer packages to study plasma evolution and MHD processes in large fusion devices, and Monte Carlo simulation of particle and radiation transport problems. She has participated in numerous IEEE conferences and activities and has numerous publications in IEEE transactions, *Nuclear Fusion*, *J. Nuclear Materials*, *Physics of Plasma*, *J. Applied Physics*, etc. She is also Senior Member of SPIE. She was the Scientific Secretary of IEEE 38th ICOPS-2011, Chicago.

BROOKE STUTZMAN (M'04) received her Ph.D. in Applied Physics from the University of Michigan in 2000. Earlier degrees include the MSEE, UofM, 1998; MS Applied Physics, UofM, 1998; BS Physics, Bucknell University, 1995. After graduate school, she was a Project Manager and Lead Engineer in the On-Line Technologies Division of MKS Instruments (2000-2002). Brooke joined the Science Department at the United States Coast Guard Academy as an Assistant Professor of Physics in 2003. She was promoted to Associate Professor with tenure in 2009 and was promoted to Full Professor this year. Dr. Stutzman's research interests have included the correlation of process with topography evolution during reactive ion etching as well as the monitoring of plasma species for process control and endpoint detection during etches and chamber cleans. For the past six years, she has worked on modeling of plasmas forming in crossed-field diodes for HPM applications. She presents and publishes both in plasma physics and in the scholarship of teaching and learning. She served on PSAC from 2010-2013, during which time she was on the Membership Subcommittee and the Minicourse Subcommittee, which she chaired for the last two years of her term. She also served on the Local Organizing Committee for the 2014 GEC Conference in Raleigh where she also coordinated the Validation and Verification day-long workshop for computational plasma physics. Prof. Stutzman is the four time recipient of the Coast Guard Meritorious Unit Commendation for her work in educational reform, curriculum review, leadership and service to the Coast Guard Academy.

WILKIN TANG (GSM'06-M'11) graduated from the University of Michigan, Department of Nuclear Engineering with concentration on Plasma Physics in 2009. His Ph. D thesis involves the study of ohmic heating of particulates which is an important topic in high power microwave components and sources. In addition, Dr. Tang developed a higher dimensional theory of electrical contact resistance with his advisor Dr. Y. Y. Lau from the University of Michigan, the new theory extended the original theory of contact resistance developed by Holms back in the 1960s. Upon graduation, Dr. Tang was a National Research Council (NRC) Postdoc at the Air Force Research Laboratory (AFRL) based at Kirtland Air Force Base. His NRC Postdoc project studied the turn-on mechanism of electron emission, and the influence of the electron beam emission on the turn-on of a High Power Microwave device. During his tenure as a NRC postdoc, Dr. Tang also studied analytically and experimentally the electric field screening effect due to the proximity of field emitters. The work also involved the first experiment that uses only two carbon fiber field emitters with different separation to quantify and isolate the effect of electric field screening, the effect of electric field screening is extremely important in the development of Field Emitter Array (FEA). In 2011, Dr. Tang joined the Directed Energy Directorate at AFRL as a permanent staff. Since then Dr. Tang was involved in advanced relativistic magnetron phase locking design, which had been recently verified by experiment. Dr. Tang also continued his work on studying advance cathode technology. Recently, Dr. Tang was involved in the study of field emission using an Ultra Short Pulse Laser. Dr. Tang had experiences in theory development, as well as Particle-in-cell (PIC) simulation. During his tenure as a NRC postdoc and as a permanent staff at AFRL, Dr. Tang uses the PIC code ICEPIC extensively to help aid experimental design. Dr. Tang had also presented at many international conferences, as well as monthly seminar organized by the Directed Energy Directorate at AFRL.

TOM TIERNEY (S'98-AM'02-M'03-SM'07) is a mid-career scientist and senior project leader at Los Alamos National Laboratory where he performs research in plasma physics and emerging technologies. His past experiences include work in target physics for inertial confinement fusion, laboratory astrophysics, and radiation flow experiments. In 2014-2015 and 2012-2013, he served as Vice-President for Government Relations and a member-at-large representative, respectively, to the IEEE-USA Board of Directors. He is co-chair of Department of Commerce's Emerging Technologies and Research Advisory Committee and is an ANSI Accredited Standard Committee for Laser Safety (Z136) member. Tom received the U.S. Department of State's Meritorious Honor Award for his contributions to counterterrorism and nuclear policy in the Office of the Coordinator for Counterterrorism as the 2009 IEEE Engineering and Diplomacy Fellow. Tom received an A.A. degree in foreign languages, B.S. degree in astrophysics, M.S. degree in physics, and Ph.D. in plasma sciences from UC Irvine with research he performed at LANL.

LEIGH WINFREY (M'10) is currently an Associate Professor of Nuclear Engineering in the Department of Materials Science and Engineering at the University of Florida, where she is the director of the **B** and **E** Applied Research and Science (BEARS) Lab. Research in the BEARS Lab includes experimental and modeling work in electrothermal plasma systems, plasma-materials interactions for first wall materials, deposition and characterization techniques, with solid lubricants, concretes, and novel materials synthesis, plasma micro-thrusters, plasma enhanced flow control, laser spectroscopy diagnostics, and nanoparticle-magnetic field interactions. Previously, Dr. Winfrey was an Assistant Professor with the Nuclear Engineering Program in the Department of Mechanical Engineering at Virginia Polytechnic Institute and State University, Blacksburg. She received the B.Sc. degree in physics and the B.A. degree in chemistry and mathematics from the University of North Carolina at Charlotte, in 2003 and 2004, respectively, and the M.S. degree in physics and the Ph.D. degree in mechanical engineering from North Carolina State University, Raleigh, NC, in 2007 and 2010, respectively, both with a minor in nuclear engineering.

IEEE NUCLEAR AND PLASMA SCIENCES SOCIETY ELECTION

RADIATION INSTRUMENTATION STEERING COMMITTEE ELECTION

For the Three Year Term 1 January 2016 – 31 December 2018

(Vote for UP to FIVE)

MALCOLM JOYCE (M'13) holds a Personal Chair in Nuclear Engineering at Lancaster University, and is currently Head of the Engineering Department at Lancaster. His industrial experience includes Smith System Engineering Ltd., BNFL plc. and most recently as Technical Director of Hybrid Instruments Ltd.; the latter a spin-out business based on his research whilst at Lancaster now in its 12 year of trading. His area of research interest is in the field of Control & Instrumentation (C&I), and the development of radiation detection instruments including: portable neutron spectrometry; decommissioning-related analytical methods; nuclear policy and environmental consequences; medical radiotherapy and radiation effects. He is author on > 130 refereed journal papers. Prior to this he spent four years in research in industry.

Malcolm's specific area of research interest is in the use of digital processing methods for applications in neutron spectrometry. This work underpinned an application for an EPSRC Instrumentation Development award for the development of an advanced portable neutron spectrometer. This stimulated the launch of a spin-out company, Hybrid Instruments Ltd., see www.hybridinstruments.com and within this context he pioneered a novel algorithm for the ultra-fast, digital pulse-shape discrimination of neutrons and gamma rays. This led to a dedicated instrument that exploits this ultra-fast processing capability which resulted in a 4* REF 2014 impact case study based on improved assay of nuclear materials for the International Atomic Energy Agency in Vienna.

He is a member of the UK Government's Nuclear Industry Research Advisory Board (NIRAB) and Deputy Director of the UK National Nuclear User Facility (NNUF). He is a Chartered Engineer and Fellow of the Nuclear Institute. He is Editor-in-Chief on the Elsevier journal 'Progress in Nuclear Energy'. He has provided consultancy to Lockheed Martin, BAE SYSTEMS, Rolls Royce plc., NNL and the MoD. He led the team in 2010 that researched and wrote the Nuclear Lessons Learned report, on behalf of the Royal Academy of Engineering and Engineering the Future, which was commended by the Minister of State for Energy, HMG Chief Scientist and Lord Browne. He was awarded the Institution of Civil Engineers' James Watt medal for best Energy-related journal paper in 2014 and Teaching Prize from the Royal Academy of Engineering (2004). In October 2012, the degree of Doctor of Engineering (DEng) was conferred upon him by the University of Liverpool in recognition of his contribution to the field of Fast Neutron Digitization and Related Analytical Methods.

During his 7-year term as Head of Engineering he has overseen a significant expansion of the department including 25 academic appointments, preparation of the brief for the new Engineering building completed in 2015 and a significant improvement in ranking in REF2014 relative to earlier research assessments. He was also responsible for the introduction of Chemical Engineering to the Engineering portfolio of undergraduate schemes which now ranks amongst the most popular schemes offered in Engineering at Lancaster.

SRILALAN KRISHNAMOORTHY (S'04-GSM'05-M'10) is a senior postdoctoral researcher working with the Physics and Instrumentation group at the University of Pennsylvania (UPenn). He received his Bachelors (honors) in Biomedical Engineering in 2001 from Mumbai University, India and later completed a Masters in Medical Physics from Stony Brook University in 2005. He also obtained his doctoral degree at Stony Brook University under the supervision of Prof. Paul Vaska in 2011. His doctoral research focused on the design and development of novel, high-performance scintillation and semiconductor detectors for gamma-ray imaging. Currently he is working on the instrumentation of a time-of-flight PET scanner for dedicated breast imaging at UPenn with Profs. Suleman Surti and Joel S. Karp.

Statement: The IEEE Nuclear Science Symposium and Medical Imaging conference (NSS/MIC) not only showcases some of the latest advances in radiation detection technology, but also provides an excellent platform to promote its numerous real-world applications. It continues to be amongst the most important conferences for radiation instrumentation and I continue to attend it every year since my first conference in 2004. In addition to being a conference attendee, I have been involved with the conference in various other capacities. I have presented a number of papers, refereed journal articles presented at the conference, and continue to be an active member of the conference information and promotion (CIP) committee. I have been a steering committee member of CIP since 2009 and was conference promotion chair for the 2012 and 2014 conferences. If elected, I look forward to bringing my insight and experiences as a scientist, conference promotion, and organizing committee member to the Radiation Instrumentation Technical committee (RITC). We had our first conference in Asia (2013), and the first ecologically-aware conference in Seattle (2014); I believe important first steps in the right direction. I would continue to improve geographical outreach and participation from young professionals at various levels of the conference. I would also like to increase educational activities and promote greater interaction between the NSS and MIC communities.

SUSANNE KUEHN (M'10) born in 1980 is member of the ATLAS collaboration, CERN, Switzerland and works at the University of Freiburg, Germany. Currently, she has an habilitation fellowship by the state of Baden-Wuerttemberg, Germany. She is working on the development of radiation hard silicon detectors for the upgrade of the silicon strip tracker of the ATLAS experiment. She also contributes to the characterization of 3D and planar silicon strip devices in the framework of the RD50 collaboration. In addition, Susanne Kuehn has been actively involved into analysis of physics data from the Large Hadron Collider. She is Co-Chair of the CIP committee (Conference and promotion committee) and will be NSS Co-Program-Chair of the NSS-MIC Conference 2016.

Statement: Several times, I acted as topic convenor at the NSS-MIC conference. This learnt me about the importance of selecting high quality contributions and new developments to have attractive sessions and a fruitful conference. If I will be elected, I would work to take advantage of these experiences to make the conference a place to be for learning about new results and developments. In addition, I also learnt details about the organization and importance of promotion of the NSS-MIC conference during my work in the CIP committee, when hosting the CIP table and being Co-Chair. This taught me also about the importance of “small” things to make the whole conference a success. If elected, I would put all my knowledge and efforts towards achieving these goals and to be an effective member of RISC.

ABDALLAH LYOUSSI (M'12) is scientist researcher in experimental physics and International Expert in Nuclear Instrumentation and measurement at French Atomic and Alternative Energies (CEA) at Cadarache since 1994. He is also high degree Professor at French Institute of Nuclear Sciences and Technologies and at Aix Marseille University. Abdallah Lyoussi is graduated as Engineer Master from French Institute of Nuclear Energy in 1990. He had a PhD in Nuclear Physics in 1994 and advanced graduation in Research and Development supervising activities in 2002. Abdallah Lyoussi is a project Manager of several Scientific & Technological collaborative projects and founder and General Chairman of the international scientific conference ANIMMA (www.animma.com). Since 2009 he is a CEA scientific manager of research programs between AMU/CEA (IN-CORE: FEDER, 2009-2015; MAHRI-BETHY: CR PACA, 2009-2014) and between AMU/CEA/NCBJ (Poland) with supervision/co-supervision of 4 PhD theses, of 5 post-doctoral fellows, and of 5 master's degree interns. Since 2010, he is one of the main founders and the scientific coordinator of the CEA and Aix Marseille University joint Lab LIMMEX involved in instrumentation and measurements within harsh and severe media. Since 2012 he is the project leader of KIC-Innoenergy European Research Program dealing with development and qualification of Silicon Carbide based Innovative Sensor for Material Ageing and Radiation Testing: 11 European partners (academics, research institutes and industrials). Co supervision of 5 PhDs and 3 Post-doctoral fellows.

Statement: As shown above, my education background, my skills and fields of activities deal with experimental physics in general and measurement and instrumentation in particular. I am involved in different international projects and initiatives both in research, development, innovation and education linked to instrumentation & measurement activity fields. Aims and activities of the Radiation Instrumentation Technical committee match well with my skills and with my objectives which are mostly to commonly build and daily initiate and perform innovative actions in order to contribute to enhance knowledge and quality of life. This is why I am interested to serve the Radiation Instrumentation Technical committee for the next 3 years (2016-2018).

SATOSHI MIHARA (M'15) is a physicist in Institute of Particle and Nuclear Studies (IPNS) of High Energy Accelerator Research Organization (KEK) in Japan. He received a Ph.D in Physics from the University of Tokyo, Japan in 1998, while working as a research associate of the University of Tokyo. Then he started to work on liquid xenon gamma-ray detector development for the MEG experiment at Paul Scherrer Institute in Switzerland. In 2008 he joined IPNS-KEK as an associate professor to initiate a new experiment using muons at J-PARC in Japan. Later he became a professor of IPNS-KEK in 2014 to lead the muon-group which is at the moment contributing muon rare-decay search experiments and measurements of muon anomalous magnetic dipole moment and electric dipole moment. He received Minister of Education award for Science and Technology Japan in 2005 and Koshiba prize in 2007 for valuable contributions in liquid rare-gas detector development. He leads a muon-to-electron conversion experiment at J-PARC, the COMET experiment, as a project manager and in parallel is contributing to development of liquid-xenon detectors for various applications.

Statement: I have carried out research on radiation instrumentation especially for gamma-ray detection at energy below 100MeV including photo-sensor and related electronics development. I also contributed much on development of low-temperature liquid rare-gas detectors that are at the moment thought to be a future gigantic neutrino detector. If elected to RISC, I would work to enhance its core functions, helping to maximize benefit to attendees of NSS/MIC/RTSD meetings, and helping intercommunication between different fields to initiate possible new collaborations. I would help to develop an environment that will attract more young scientists into our field. I have contributed reviewing abstracts of IEEE NSS/MIC/RTSD meetings over many years. I would be more active also as an IEEE member when I elected to RISC.

RICCARDO PAOLETTI (M'12) is Associate Professor at the University of Siena since 1991 and researcher at the Istituto Nazionale di Fisica Nucleare in Pisa, Italy. He graduated at the University of Pisa in 1985 and received the PhD in Physics in 1989. Since the PhD studies he worked at the Fermilab National Accelerator Facility in the CDF (Collider Detector at Fermilab) experiment on the measurement of the proton-antiproton cross section and the top quark discovery, specializing later on the construction of position-sensitive detectors and the development trigger and data acquisition systems. Currently he's active in astro-particle physics in the MAGIC (Major Atmospheric Gamma Imaging Cherenkov telescope) and CTA (Cherenkov Telescope Array) where he's responsible for the trigger and readout electronics system. He's leading the INFN works on Silicon Photo Multipliers (SiPM) characterization for modern photo-sensor modules in collaboration with FBK foundry, Italy.

Statement: I have devoted my scientific career to high energy experiments and, in the last decade, to astro-particle experiments, covering leading roles in the construction of trigger and readout systems, as well development of modern detectors based on the Silicon Photo Multiplier technology. I am reviewer for several physics and electronics journals (*IEEE Transaction on Nuclear Sciences, Journal of Instrumentation, Nuclear Instrument and Methods*, etc.), convener of international conferences on detectors and electronics. I am member of the organizing committee of the Pisa Meeting on Advanced Detectors, which is held every three years in Italy, in rotation with the Wire Chamber and the Technology and Instrumentation in Particle Physics conferences. In the year 2004 I have been member of the organization committee of the IEEE NSS/MIC/RTSD conference in Rome, Italy.

I am already member of the IEEE CANPS committee and in the context of RITC, if elected, I will bring my experience of conference programming as well as conference information and promotion, given the contacts I have collected during these years, in order to promote at best the NSS/MIC/RTSD conferences and make them attractive to a wider and younger scientific community.

ANATOLY B. ROSENFELD (AM'92-SM'98) is Professor and Director, Centre for Medical Radiation Physics (CMRP), School of Physics, University of Wollongong, Australia. Anatoly has worked (1976-1992) as a team member and a project leader at the Institute for Nuclear Research (Ukraine) where he received extensive experience in development of radiation semiconductor detectors and instrumentation for charged particle spectroscopy and dosimetry of mixed gamma-neutron radiation fields including high energy physics (HEP). He was one of the founders of "SPA Detector" Ltd, a Ukraine based company involved in manufacturing of silicon ion implanted detectors and radiation instrumentation.

In 1993 he joined University of Wollongong (UOW), Australia as a Lecturer in Medical Radiation Physics at the Department of Physics. He was promoted to Full Professor in 2002 and to Senior Professor in 2014. Anatoly was Founder and Director of CMRP from 2000 which is currently largest education and research medical radiation physics centre in Asia-Pacific with 18 academic and research staff, 15 adjunct academics staff from hospitals and industry and more than 70 graduates research students. CMRP is continuing Research Strength of UOW for the last 10 years.

Anatoly's research interest is in R&D in semiconductor radiation detectors for dosimetry, micro-dosimetry and nano-dosimetry with application in radiation therapy, space, imaging and HEP. He has attracted competitive grants in Australia and O/S as PI for more than \$14M and established strong collaborative research programs with the USA, Europe and Asia. He has graduated 30 PhD students under his supervision.

He is an active member of IEEE NPSS, participating at IEEE NSS/MIC and NSREC almost each year since 1991. He is a reviewer at IEEE NSREC and NSS/MIC and acting as Sessions Chair and Convener, Deputy General Chair on Asian Program (which he has originated) in 2007, RISC Member, NPSS Internationalization Committee, co-Conveners of Hadron Therapy continuous workshop, NSS Workshop co-Chair (Seoul) and General Chair IEEE NSS MIC in 2018.

He is on Editorial Boards of JINST, Radiation Measurements and retired from Physica Medica in 2013. Anatoly was elected as a Vice-Chair of International Solid State Organization (ISSDO) and became ISSDO Chair in 2016.

Dr. Rosenfeld fulfilled his M.Sc (with distinction) majoring in semiconductor physics and Doctorate in radiation detection instrumentation at Leningrad Polytechnic Institute (St Petersburg Technical Uni) (USSR) and Institute for Nuclear Research (Ukraine), respectively. He has published more than 260 peer reviewed publications (many in *IEEE Trans. on Nucl. Sci*) and holds 18 patents on radiation instrumentation and detectors.

Statement: Anatoly was the first (to the best of his knowledge) ex-Soviet detector scientist who joined IEEE NSS MIC in 1991. Since this time NPSS played an important role in his career due to strong international communication with radiation instrumentation scientists during IEEE conferences. If elected to the RISC Anatoly will continue to promote culture of NPSS and further spread collaboration radiation detector instrumentation development in in Asia-Pacific through strong international collaboration. I think that more efforts should be done in application of semiconductor detector instrumentation in radiotherapy to improve the outcome of radiation treatment for oncology patients and better cancer diagnostics. He will continue to promote new ideas through IEEE NSS/MIC and will find attractive ways for industry to support more academic radiation instrumentation research in Australia and overseas for joint commercialization. His efforts will be directed to attract young talented engineers and scientists to NPSS.

ANDRÉ SOPCZAK (M'07-SM'11) has pursued his undergraduate studies in mathematics and physics at Munich University, received his PhD in 1992 from the University of California, San Diego and was awarded the Isidor I. Rabi Diploma for Best Students at the Erice School. He became CERN Fellow, then DESY Fellow and continued research at CERN as teaching and research assistant at Karlsruhe University. In 2001 he joined the faculty at Lancaster University and tenured in 2004. Since 2012 he joined the Czech Technical University in Prague. His research has been on detector and accelerator R&D, in the field of searches for new particles, in particular Higgs bosons, and physics studies for a future Linear Collider. In the early 90's he pioneered the search for neutral and charged Higgs bosons, using the then new technology of micro-strip vertex detectors. He led the alignment of the vertex detector in the L3 experiment which was crucial for many analyses. In 1996 he joined the DELPHI experiment and became a working group convenor and a major contributor to the LEP Higgs working group which combined the results of the four LEP experiments. In 2001 he joined the D-zero experiment at Fermilab, contributed to the detector alignment, clustering of charge deposit studies, b-quark tagging, triggering, and tau-lepton identification in Higgs searches. He led test-beam studies for the new innermost vertex detector layer and also participated in test-beam experiments at SLAC. Since 1995 he has been initiating several research projects on radiation hardness of CCD detectors and modelling the detailed effects, and for example being the corresponding author of four IEEE TNS publications since 2007. Recently he joined the ATLAS experiment leading a team on the data-analysis of Medipix detectors which took data at 16 positions in the ATLAS experiment for radiation measurements and luminosity monitoring. Among the international recognitions and awards received are the election as Fellow of the Higher Education Academy ("recognized across the Higher Education sector as evidence of your expertise and commitment to enhancing and supporting student learning experience"), the election as Fellow of the Institute of Physics ("senior grade of membership having demonstrated a high level of achievement and a significant contribution to their profession") and the election as Chartered Physicist ("It represents the highest standards of professionalism, up-to-date expertise, quality professionalism, up-to-date and safety, and for capacity to undertake independent practice and exercise leadership. As well as competence, the title denotes commitment to keep pace with advancing knowledge and with the increasing expectations and requirements for which any profession takes responsibility.")

Statement: As a member of the RISC I can contribute to several areas. With my research experience I can directly contribute to advancements of theory and applications of Ionising Radiation Instrumentation. In addition to the standard applications of Medipix and CCD detectors, there are many applications in particle physics which require detailed studies. I can give a positive image of the detectors based on successful applications and contacts. My communication skills can help to promote the detector technology advancements for further applications. With my experience in large HEP collaborations, I can serve as ambassador between the large Collaborations and RISC. As primary author for TNS and JINST publications, or journal referee in NIM, I can assist in the RISC regarding publications and help with the recognition of individuals. With some 20 years of University teaching experience, I find efficient ways to explain detector advancements understandably. I have received several grants for outreach and to promote public understanding. In the outreach projects we reached many thousand high-school students. I initiated and completed a project on electronic learning in an international consortium, an experience I can bring to the RISC. I like to contribute to conference and school organizations for which I was successful with fund raising in the past, in addition to receiving about 20 national and international grants for research projects. In organizations of Conferences, Workshops and Schools I would like to focus on supporting PhD students and beginning postdocs. I have been an active member of organizing teams in IEEE NSS/MIC Conferences, the Scientific Program Network (SPN), the Conference Information and Promotion (CIP) Committee, and Technical Program Committees. I believe I can strengthen the RISC Committee and I am devoted to promote the interests of the RITC.