

# Candidates for the 2016 election to the Board of ICS

## Europe

**Oszkár Bíró** is professor of Theory of Electrical Engineering at the Graz University of Technology, Austria. My field of expertise is the application of the method of finite elements to electromagnetic and coupled problems. I have been involved with Compumag for almost 30 years, having attended all conferences since 1987. I have acted as Editorial Board Chairman for Compumags Berlin in 1995 and Budapest in 2013. I am also one of the early contributors to the series of TEAM Workshops and have chaired several benchmarking sessions in Compumag conferences. In addition to Compumag, I am active in co-organising the review process of several sister conferences on the topics of Compumag, like CEFC, CEM and EMF. As a Co-Chairman of the International IGTE Symposia on Numerical Field Calculation in Electrical Engineering, I am also responsible for the review process of these conferences which have been organised biennially by my laboratory for over 30 years. I have been a member of the ICS Board for three six-year periods now, and I have tried to give my best to serve our community in this position.



*Candidate's statement:* If elected again, I intend to focus my work on upholding and possibly improving the quality of Compumag, the most important international conference of our community.

**Markus Clemens** is professor at the Chair for Electromagnetic Theory at the Bergische Universität Wuppertal, Germany.

Born 1968 in Wittlich, he received his diploma in Mathematical Engineering ("Technomathe-matik") from the University of Kaiserslautern in 1995. In 1998 he finished his phd at the Institute for Electromagnetic Theory at the Technische Universität Darmstadt in the field of Computational Electromagnetics, where in 2003 he also received his *venia legendi* in "Electromagnetic Theory" and "Scientific Computing". In 2004 he became head of the Chair for Theory in Electrical Engineering and Computational Electromagnetics at the Helmut-Schmidt-University, Hamburg. Since 2009 he is heading the Chair for Electromagnetic Theory at the Faculty of Electrical, Information and Media Engineering at the Bergische Universität Wuppertal, Germany. His research activities focus on the development and application of numerical simulation methods for Computational Electromagnetics and Computational Multiphysics. His research projects have a focus in numerical high performance computation schemes for complex models of electric power transport and power conversion systems as well as for high-frequency applications up to the terahertz range. This also includes numerical electromagnetic compatibility testing methods and realistic simulations of electromagnetic field exposure scenarios of biological organisms. Markus Clemens is senior member of the IEEE and active member of the International Compumag Society for several years now.



*Candidate's statement:* As a member of the Board I would like to work for the International Compumag Society to continuously contribute to the field of Computational Electromagnetics research with scientific contributions of the highest possible quality.

**Stéphane Clénet** is professor of electrical engineering at Ecole Nationale Supérieure d'Arts et Métiers in Lille, France. After the completion of his PhD, he was Assistant Professor at the University of Lille in 1994 before being appointed as full professor in 2002. In 2008, he was visiting professor at the University of Akron (USA) in 2008 (as Fulbright Grantee) and 2014 and at McGill University (Canada) in 2015. He is member of a research group (L2EP) composed of 30 professors and assistant professors. From 2007 to 2014, he has been in charge of a research team in the field of computational electromagnetics and its applications involving 7 professors and assistant professors, 6 post docs and 9 PhD students. He has worked on the development of 3D Finite Element Model in low frequency. Since 2004, his research focuses mainly on uncertainty quantification in computational electromagnetics based on stochastic approaches and also on model reduction techniques (POD, PGD...). He has collaborated with numerous researchers from different universities in France but also from abroad like in Liège (Belgium), Akron (USA), Santa Catarina (Brésil), McGill and Laval (Canada), Aalto (Finland)... Stéphane Clénet is co-author of 75 publications in international journals.



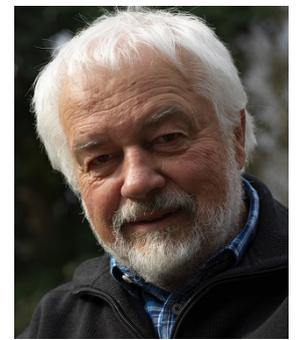
*Candidate's statement:* As member of the ICS Board I would like to promote scientific exchanges between members, to guarantee the conference remains a high standard and a reference in the field of computational electromagnetism, encourage opening to other fields in engineering (mechanical, energy...) computer science, material science and the applied mathematics (numerical analysis, statistics...). He will be co-chairman of the conference COMPUMAG in 2019.

**Andrzej Demenko** is a full professor of computation electromagnetics, electrical machines and mechatronics at Poznan University of Technology (PUT), Poland. He received the title of Professor from the President of the Republic of Poland. Currently he is Head of Division of Mechatronics and Electrical Machines at this University. He is also Chairman of the Committee on Electrical Engineering of the Polish Academy of Sciences (PAN). Since 1970 he has been employed in research and education. He has published five books and over 300 conference and journal papers on electromagnetics, electrical machines, numerical methods and applied physics. His personal research is focused on the development of a field method in the analysis and designing of electrical machines and drives. In addition, he is engaged in the searching for successful methods of education in the computation electromagnetics. He is Chairman of Steering Committee of Symposiums on Electromagnetic Phenomena in Nonlinear Circuits (EPNC) and a member of Steering Committees of several international and national conferences. Since 2010 he is Editor-in-Chief of quarterly magazine of the Polish Academy of Sciences - 'Archives of Electrical Engineering'.



*Candidate's statement:* As a member of the ICS Board, Prof. A. Demenko strives towards promoting the activities of ICS in Eastern Europe, e.g. in Russia, Belarus, the Ukraine and the Baltic states. He wants the countries with a broad academic environment to join in the work of ICS and to participate in conferences and seminars organized by ICS in a larger number. A. Demenko intends to continue promoting ICS and to support the activities of ICS with the work of his team, in the field of material modeling, optimization of electromagnetic devices and coupled problems.

**Arnulf Kost** obtained the Dipl.-Ing. and Dr.-Ing. degrees at the Technical University of Berlin in 1966 and 1973, respectively. He became Professor at the TU Berlin in 1978 and at the TU Cottbus in 1995. His research field is Computational Electromagnetics as well as Electromagnetic Compatibility, which he applies in cooperation with industry. He published 175 scientific papers and a monograph "Numerische Methoden in der Berechnung elektromagnetischer Felder" with the Springer Verlag on this field. He was Guest Professor at the Universities of Okayama/Japan (1990), Florianopolis/Brasil (1997), Ecole Centrale de Lyon/France (2004) and Artois/France (2004, 2005, 2006). He was the Chairman of the International COMPUMAG conference 1995 in Berlin. Since 2001 he is President of the International COMPUMAG Society.



*Candidate's statement:* As member of the ICS Board I would like to continue to strongly contribute to the objective of the ICS, to keep COMPUMAG as a kind of flagship of the conferences in the field. In particular I would like to reinforce contributions of the community to multiphysics and large scale problems, material science, applied mathematics and high frequency computational electromagnetics in order to treat so far not sufficiently solved but highly challenging real world problems. The support of the participation of young researchers having often fresh and unconventional ideas seems to me a very important task.

**Zhuoxiang Ren** is a professor at the University Pierre & Marie Curie (University Paris 6) in France. After receiving his PhD from the INP of Toulouse in France in 1985, he was, respectively, an assistant professor at the ENS of Cachan and a senior researcher at the CNRS in France, and conducted his research in the Laboratory LGEP in Paris. In 1998, he was a visiting scholar at the University of Akron in USA. After then, he worked at various EDA companies, including Ansoft Corporation, Cadence Design Systems, Mentor Graphics Corporation, respectively, until 2010. He is currently leading a research team in micro and nano electronics at the Laboratory of Electronics and Electromagnetism in University Paris 6. He is also a guest professor at the Institute of Microelectronics in Chinese Academy of Sciences. Dr. Ren has many years of research experiences on numerical modeling of electromagnetic systems and development of EDA tools. He has published over 170 journal and refereed international conference papers. He has been awarded a Bronze Medal of CNRS in France in 1996. His research interests include numerical methods for the computation of electromagnetic fields, modeling of multi-scale and multi-physics problems in micro and nanoelectronic and electromechanical devices and systems. Dr. Ren is a member of the International Compumag Society since its creation. He attended every Compumag conference since 1989 and served as a member of ICS board from 2003 to 2013. He will host Compumag 2019 in Paris.



*Candidate's statement:* As a member of the ICS Board I would like to help to promote the research activities in computational electromagnetics and its applications, encourage the young researchers to join the society and assure the high standard of scientific quality of Compumag conferences.

**Maurizio Repetto** is professor of Electrical Engineering at the Department of Energy of the Politecnico di Torino, Italy. He received his Master (1985) and Ph. D. degrees in Electrical Engineering (1990) from the University of Genova. In 1992 he moved to Politecnico di Torino where he is currently Dean of the Electrical Engineering curriculum. He is Honorary Professor at the School of Information Technology and Electrical Engineering, The University of Queensland, Australia. His research activity is focused on the numerical analysis of electromagnetic fields, on the optimisation applied to the design of industrial devices and to complex energy systems. He has been working for several years on the modeling of nonlinear and hysteretic materials and on the analysis of multiphysics problems using different numerical techniques. Some highlights of his research activity can be found at [www.cadema.polito.it](http://www.cadema.polito.it). He has been attending Compumag Conference since 1983 and has served as reviewer and organizer of several symposia and scientific events.



*Candidate's statement:* for forty years Compumag has been at the leading edge of electromagnetic computation. During these years problems and scales have changed but the conference focus has always been on the solution of inspiring topics avoiding routine. In my view, keeping this spirit alive is the mission of the ICS Board that should stay in contact with challenging topics both in theoretical and applied computational electromagnetics. To this aim, the involvement of young researchers is crucial keeping the community active, open and willing to exchange ideas worldwide. ICS Board, through proper measures, should implement funding reserved to this issue. In the present situation of booming conferences and editorial sites, ICS Board must have the leadership to carry on the future of Compumag as a reference for top quality editorial contributions and publications.

**Stephan Russenschuck** is a senior staff member in the Accelerator Technology (TE) Department of the European Organization for Nuclear Research, CERN, Geneva, Switzerland. He is the leader of the magnetic measurement section in the TE department and the chairman of the technical and doctoral student committee at CERN. Stephan received the Dipl.-Ing and Dr.-Ing. Degrees in electrical engineering in 1986 and 1990 both from the Technical University Darmstadt. In 2000 he was recognized as a University Lecturer (Habilitation) for Theory of Electromagnetic Fields at the University of Vienna, Austria. During the construction period of the LHC he was responsible for the electromagnetic design of the LHC main dipole magnets and later for the magnet polarities and the electrical quality assurance during installation. His research interests are mathematical optimization and numerical field computation techniques in support of magnet design, magnetic measurements, and accelerator operation. S. Russenschuck is the author of the numerical field computation program ROXIE and the author of the book "Field computation for accelerator magnets" published at Wiley-VCH. Since 1993 Stephan serves as a member in the COMPUMAG steering committee / Board of the International COMPUMAG Society. For the last 18 years he also serves in the organizing committee of the ICAP conference on computational accelerator physics. He was the chairman of the editorial board of MT17 (magnet technology) and chairman of the ICAP06 conference.



*Candidate's statement:* Stephan considers increasing the diversity in the COMPUMAG series of conferences as the highest priority of the board. The conference should be able to bring together developers and users of numerical codes, and be "home" of mathematicians, physicists and engineers alike.

## Asia and Oceania

**Katsumi Yamazaki** received the B. Eng. and M. Eng. degrees from Waseda University, Japan in 1987 and 1989 respectively. He joined Toshiba Corporation in 1989. He received the D. Eng. degree from Waseda University in 1996. Since 2007, he has been a professor of Chiba Institute of Technology, Japan. His research interests include analysis and design optimization of electric machines, for example, traction motors for electric and hybrid electric vehicles, turbo generators and transformers for power plants, and variable speed motors for industrial applications. He also engages in the developments of coupled electromagnetic and mechanical analyses, mesh generation methods, and optimization methods for these machines. He collaborates with several electric and automotive companies to realize the advanced machines by using these calculation methods. He was the chairman of the rotating machine committee in IEEJ from 2011 to 2014. He is the general chairman of 19th international conference on electrical machines and systems (ICEMS2016), which will be held at Chiba in November 2016. Prof. Yamazaki was a recipient of Best Poster Paper Awards in IEEE CEFC 2004, ICEM 2006, and IEEE IEMDC 2011. He also received the 3rd Prize Paper Award of the Electric Machines Committee of the IEEE IAS in 2011 and the Best Paper Award in IEEE Transactions on Energy Conversion in 2015, respectively.



*Candidate's statement:* As member of the ICS Board, I would like to contribute further developments of novel calculation methods for electric machines with all of the colleagues in this society.

**Kazuhiro Muramatsu** is a Professor of Graduate School of Science and Engineering at Saga University, Japan since 2008 and also a Visiting Professor of School of Electrical Engineering at Wuhan University appointed through the Recruitment Program of High-end Foreign Experts, China since 2015. He was educated at Okayama University and received B.E., M.E., and Ph.D. degrees in 1988, 1990, and 1993, respectively. He was with ALPS Electric Co., Ltd. from 1990 to 1994. He moved to Okayama University from 1994 and worked as an Assistant Professor until 2001. He was a Visiting Researcher at University of Bath, U.K. in 1999 and Grenoble Institute of Technology, France in 2000. In 2001, he moved to Saga University as an Associate Professor. His major research topics are development of methods for 3-D magnetic and coupled field analyses with finite element method and design of electrical machines and magnetic devices using numerical analyses. He was a secretariat of CEFC 1996, Okayama and a member of the Japanese organizing committee of CEFC 2012, Oita.



*Candidate's statement:* As a member of ICS Board, he would like to contribute to ICS so that it becomes the leading society not only in computational electromagnetics but also in electric and electronic engineering relevant to development of electrical machines and devices as well as magnetic materials.

**Jiansheng Yuan** is a professor of Electrical Engineering Department at Tsinghua University, Beijing, China, as the head of Advanced Electrical Technology Institute and the vice-chairman of the National Key Lab of Electric Power System and Equipment. As a Research Fellow of Alexander von Humboldt Foundation, he worked at the Technical University of Berlin with Professor Arnulf Kost from September 1991 to February 1994, and worked as a visiting scientist at the Rutherford and Appleton Laboratory from August 1990 to August 1991. He received his Ph.D. from the China Institute of Atomic Energy in July 1990, Master's and Bachelor's degrees from the North China Electric Power University. Currently, he is the Board Member of the Theoretical Electrotechnology and Advanced Technology Association, and the Electromagnetic Launch Association of China Electrotechnical Society, the Board Member of the Electromagnetic Interference Association of Chinese Society for Electrical Engineering, and the Vice-Director of Teaching Supervisory Committee of Electrical Engineering and Automation Discipline of China. His current research area includes the computation of multi-physical fields in ITER (International Thermonuclear Experimental Reactor), electromagnetic launchers, the design of high voltage transmission lines, etc. He has finished four projects from the National Natural Science Foundation of China, and dozens of research projects from institutes and corporations. He has been teaching the postgraduate student course "Computation of electromagnetic fields" for many years, and dozens of students have received their Ph.D. under his supervision.



*Candidate's statement:* As member of the ICS Board I would like to work for promoting the development of the Compumag Society further by participating in the activities of ICS and encouraging young researchers to join ICS, and pushing the research on the application of computational electromagnetics forward in the electrical engineering.

**Yongjian Li** received his B. Eng. M. Eng and PhD degrees in Electrical Engineering from Hebei University of Technology, Tianjin, China, in 2002, 2007 and 2011, respectively. He has been with the School of Electrical Engineering, Hebei University of Technology as Assistant Professor, Associate Professor since 2007, where currently he is a Full Professor. From 2009 to 2011, he was a Research Assistant at University of Technology, Sydney, Australia. He is member of International COMPUMAG Society, member of Institute of Electrical and Electronic Engineers, and member of International Steering Committee of One- and Two-Dimensional Magnetic Measurement and Testing Workshop. He is a board Member and associate Secretary-General in China Electrotechnical Society. His research interests include Computational Electromagnetics and measurements and modelling of magnetic properties. He pioneers in the modelling of 3-D magnetic properties in the field of magnetic material and made a breakthrough in detection device for magnetic properties with three-axis orthogonal excitation structure. Dr Li has authored and co-authored more than 50 papers in the referred international Journals and conference, majority of the papers in the fields of computational EM and measurements. Dr Yongjian Li is a very active researcher in Computational Electromagnetics, he is a regular attendee to COMPUMAG, INTERMAG, MMM, MT, etc. where he delivered number of regular papers including 4 invited talks and served as Session Chair.



*Candidate's statement:* If elected to be a member of the ICS Board, he will proactively cooperate with other board members to promote the ICS, develop the ICS, and growing the ICS emerging fields, and recruit more members to join the society, in particular in Asian and Pacific regions.

**Chang-Seop Koh** is a professor of the department of Electrical Engineering at the Chungbuk National University, KOREA. He has been the Dean of Finance and Planning in his university from November 2011 to August 2016. His research interests include the numerical analysis of electromagnetic fields using finite element method, optimal design of electric machines and measurements and modeling of vector magnetic properties of electrical steel sheets. He is a senior member of IEEE, and has been a member of ICS Board since 2010. Currently he is Chair of the Technical Program Committee and Co-Chair of the Editorial Board for the COMPUMAG 2017-Daejeon, KOREA.



*Candidate's statement:* As a member of the ICS Board, I would like to make the forthcoming COMPUMAG 2017 memorable to every member of our society and very successful not only in academic but also in cultural sense.

**Sang-Yong Jung** is currently associate professor in Sungkyunkwan University, Korea. I was born in 1973 and received the B.S., M.S., and Ph.D in electrical engineering from Seoul National University, in 1997, 1999, and 2003, respectively. From 2003 to 2006, I was a Senior Research Engineer in R&D Division, Hyundai Motor Company, mainly researching on the electrical propulsion system for (hybrid)electric vehicles. I have devoted myself to research on numerical analysis and optimization of the applied electromagnetic system so that I have published more than 60 SCI(E) papers so far, and most of them have been issued at IEEE Transactions on Magnetics in association with COMPUMAG, CEFC, and etc. Moreover, I have research and development capability to perform the industry-collaborative projects so that I performed more than 70 projects throughout my expertise career as a professor in universities for 10 years. Specifically, I have been experienced with the research on optimal design and numerical methodologies of electric machines developed with the in-house numerical code. In addition, I have introduced the variety of optimization algorithm like Adaptive GA and PSO, Memetic Algorithm with MADS, intelligent Optimization Code, and multi-objective optimization process via COMPUMAG. Lately, I have been pursuing for the coupled analysis of multi-physics based engineering and implementing the synthetic design and assessment platform of electromagnetic problems with the automated GUI-based optimal design program and RT-based inverter coupled simulator. Until now, I have attended COMPUMAG enthusiastically and played the responsible role as paper reviewer, session-chairman, and Compumag2017 organizing committee in charge.



*Candidate's statement:* As member of the ICS board, I will devote myself to make Compumag becoming academic repository and technical trading place so that more participants from more countries have motivations for attendance seeking for essential solutions and methodologies for the real problems.

## The Americas

**David Lowther** is a Professor of Electrical Engineering in the Department of Electrical and Computer Engineering at McGill University where he has been since 1979. At McGill, he has been actively involved in Research, Teaching and Administration. From 1998 to 2006, he was Chair of the Electrical and Computer Engineering Department and, more recently, has been President of the McGill Association of University Teachers. His research area is related to the computer based design and analysis of low frequency devices – this has included novel work in the area of device design and optimization involving artificial intelligence and big data. He currently runs a research team of over 12 graduate students and Post-doctoral Fellows and has collaborations with the UK, Italy, France and Brazil. He is a founder of Infolytica Corporation, a supplier of design tools for low frequency devices, and is currently the Vice-President for the Americas of the International Compumag Society. In 2015, he organized the Compumag conference in Montreal (after being Vice-Chair in 1985 and Editorial Board Chair in 1993). David Lowther has been involved with Compumag since the first conference in 1976 and was a founder of ICS.



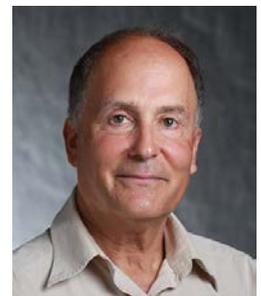
*Candidate's statement:* The International Compumag Society is a key organization for bringing together academic and industrial researchers and designers to share ideas and develop the roadmaps necessary for the future. If elected to the Board, I would continue to work towards increasing collaboration, providing expanded forums (through conferences and online communities), and developing the connections with societies such as the IEEE, ACES and the IET and the international conferences related to subjects included in Compumag. I also intend to develop and promote a vision for the future of our research work. This is crucial if we are to continue to attract first class researchers, students and research funding to our area.

**Nathan Ida** is currently Distinguished Professor of Electrical and Computer Engineering at the University of Akron, Akron, OH. He teaches electromagnetics, antenna theory, electromagnetic compatibility, sensing and actuation, and computational methods and algorithms. His current research interests include numerical modeling of electromagnetic fields, especially in relation to sensors, electromagnetic wave propagation, theoretical issues in computation, nondestructive testing of materials at low and microwave frequencies as well as in communications, especially in low-power remote control and wireless sensing. He has published extensively on electromagnetic field computation, parallel, and vector algorithms and computation, nondestructive testing of materials, surface impedance boundary conditions, sensing and actuation and others. He is the author or coauthor of six books including a textbook on sensing and actuation and one on engineering electromagnetics and currently serves as editor in chief for Sensing and Imaging (Springer). Dr. Ida is life Fellow of the IEEE, fellow of the IET, fellow of the American Society of Nondestructive Testing and fellow of the Applied Computational Electromagnetics Society.



*Candidate's statement:* As board member I will strive for broader recognition of the core issues in computational electromagnetics and their applications in areas not usually associated with electromagnetics such as modeling of electrochemical processes including corrosion effects and in sensing and actuation.

**Sheppard Salon:** I am currently Professor Emeritus of Electrical, Computer and Systems Engineering at Rensselaer Polytechnic Institute. I joined the faculty at RPI in 1978 after 8 years with the Westinghouse Electric Company. I have a PhD in Electrical Engineering from the University of Pittsburgh. I am a registered professional engineer. My areas of research are electromagnetics, numerical computing, electric machines and power systems. I am a life fellow of IEEE and received the 2004 IEEE Nikola Tesla Award. I have been active in Compumag practically since the beginning and have served on the board twice over the years. I have had the privilege of attending almost all of the Compumag Conferences. In 2003 I hosted the Compumag conference in Saratoga Springs, New York. So my association with Compumag is long and close.



*Candidate's statement:* Compumag is a unique organization focusing on the intersection of electromagnetics, numerical computing and applications. As such it aligns perfectly with my interests and has been an invaluable help to me personally in my career. I always leave a conference with lots of new ideas and information. I have seen Compumag grow, prosper and develop over the years. Now with its new closer ties to IEEE it has solidified its status as the premiere organization in its area. I would like to give back to Compumag for all the help it has been to me and would gladly accept the pleasure and challenge of serving on the Compumag board.

**Arturo Bretas** is a Professor of the Department of Electrical and Computer Engineering at the University of Florida. His research interests include Smart Grids, Cyber-Physical Systems, Cyber Security, Power Systems Operation, Protection, Control, Reliability Optimization and Restoration, Power Quality, Distribution Systems Automation and Operation, Power and Distribution Systems State Estimation, and Power Systems Dynamics. He has held visiting positions at universities all over the world, including the Grenoble Institute of Technology, Grenoble France during 2003-2004 where he was a CNRS Scholar. Since 2002, he has been involved as a PI/CPI on more than 15 industrial projects totalizing US\$ 22 M in funding. These projects concern, for example, power systems cyber-security, new technologies to enhance power system control and monitoring, distribution systems reliability optimization and planning under deregulation. Dr. Bretas has published up to date more 210 scientific papers in international conferences and journals, he is a senior member of the IEEE.



*Candidate's statement:* As a member of the ICS board, I would like to enhance the society's participation in North America. Currently, in North America, there is a great gap on education and research on topics related to the application on computer methods to problems having electric, magnetic or electromagnetic components. A great decrease on student population number in under and graduate related courses has been seen in the last years. I would like as a board member to tackle this problem through a series on initiatives. Initially, I would like to promote information exchange among Society members in North America. For such I envision the promotion of conferences, workshops and electronic forums in North America. As a board member I would like also to increase the number of North American members in the Society. The promotion of ICS in Student Organizations in US universities will be a goal.

**Kazimierz Adamiak** is a professor of electrical engineering at the University of Western Ontario, Canada. He received M.Sc. and Ph.D. degrees in electrical engineering from the Szczecin University of Technology, Poland, and D.Sc. from the Gdansk University of Technology, Gdansk, Poland in 1974, 1976 and 1983, respectively. After graduation, he was working in different capacities (permanent, temporary and visiting positions) at nine different Universities and two companies in Poland, Sweden, France, USA, Japan and Canada. This work encompassed research areas from electric machines and magnetic separation to inverse problems, but numerical simulation was always its essential part. Since 1990 his interests have been concentrating on numerical simulation of corona and dielectric barrier discharges (static and dynamic models, different discharge chemistry, various techniques for solving the charge transport equations), electrohydrodynamics (flow of gas or liquid generated by electrical forces), microfluidics (fluid pumping in microchannels) and electromechanics of particles and droplets (electrostatic precipitation, electrostatic painting). He has authored or co-authored more than 120 journal papers, numerous conference presentations and industry reports. He is a Registered Professional Engineer in the Province of Ontario, Canada, member of the Electrostatics Society of America and a Fellow of the IEEE. For many years he served as Associate Editor in the IEEE Transactions of Industry Applications, representing the Electrostatic Processes Committee. Since 2013 he is an Associate Editor in the Journal of Electrostatics.



*Candidate's statement:* As member of the ICS Board I would like to promote expanding the Society activities towards less conventional areas of electromagnetics, i.e. charge transport in solids/liquids, gas discharges and electrohydrodynamics.

**Zsolt Badics** is the Founder and Chief Scientist of Tensor Research, LLC, USA. He received his PhD from Budapest University of Technology, Hungary, where he also started his career as an assistant professor. His primary research interest is numerical modeling of forward and inverse electromagnetic and electromagnetic-centric coupled problems. His focus has always been the application of top-notch basic research in CEM to trailblazing industrial and medical device applications. He published 77 refereed articles in scholarly journals and collective books. He was a director at Rhythmia Medical, Inc., USA, managing a team to develop real-time solutions of electromagnetic inverse problems for an innovative medical imaging device, marketed as Rhythmia Mapping System, to treat cardiac arrhythmia. Earlier, he was with Ansoft Corporation, USA, and Nuclear Fuel Industries, Ltd., Japan. At Ansoft he was a senior designer and developer of the Maxwell and ePhysics Ansoft simulation tools. In Japan, his team developed a finite element solver and inverse algorithms for eddy current non-destructive evaluation systems. Currently, his interests include CEM on heterogeneous multi-GPU architectures, numerical modeling of wireless power transfer systems and in silico solutions to the medical device industry including a validated biological and anatomical environment. He is a founding member of ICS and a senior member of IEEE. He has served as a member of the editorial board of the Compumag Conferences and as a reviewer of ACES, COMPEL, Journal of Computational and Applied Mathematics, and IEEE Transactions on Magnetics.



*Candidate's statement:* As a member of the ICS board I would like to work towards the continuing advancement of upcoming Compumag Conferences while assuring the continuation of the current high standard of scientific quality. As the reach of the conference topics expands, I would like to promote more reproducible verification and validation guidelines for numerical models and algorithms.