



IFEES 2017 Elections Ballot

Ramiro Jordan | Candidate for the IFEES President Elect



Ramiro Jordan

ISTEC

Ibero-American Science and Technology Education Consortium
USA

Biography

Dr. Ramiro Jordan obtained his MS and Ph.D. in Electrical and Computer Engineering from Kansas State University (USA) in 1984 and 1987 respectively, and the degree of Telecommunications Engineer at the Universidad Nacional de La Plata (Argentina) in 1981.

Dr. Jordan is a scientist, innovator, educator and entrepreneur. He is a faculty member of the Electrical and Computer Engineering (ECE) department at the University of New Mexico, and is currently the Associate Dean of Engineering for International Programs. His research activities include sustainability, Smart Grid, cognitive radio, multi-dimensional signal processing, and software development. He is a dedicated educator, actively creating educational infrastructure in academic institutions worldwide with an emphasis on the “culture of quality” in educational programs and R&D. He is driving innovative curricula development programs such as Peace Engineering, is establishing International Graduate Double Degree programs and is creating opportunities for student engagement and leadership development. He was actively involved with the University Faculty Senate and served on the Operational Committee that, with the Faculty President, ensures shared governance of the University. Dr. Jordan holds a faculty position at the Universidad Nacional de La Plata, Argentina, and has served as visiting and resident professor at universities in Brazil, Costa Rica, Chile, Mexico, Peru, Bolivia, Argentina, Uruguay, Colombia, Ecuador, Paraguay, Spain, and Venezuela, among others.

Dr. Jordan is a founder of the Ibero-American Science and Technology Education Consortium (ISTEC), a successful non-profit organization that was created in 1990 with the mission to accelerate STEM education, R&D and entrepreneurship in Ibero-America. ISTEC is comprised of over 100 educational, research, industrial, and multilateral organizations throughout the Americas and Iberia, and is now reaching into the global arena.

Dr. Jordan is a recognized leader in his field and serves on the Board of Directors of several industrial and professional organizations. He served as Vice President for the Americas Region and on the Executive Committee of the International Federation of Engineering Education Societies. He is on the Board of the Engineering for the Americas Initiative, an initiative hosted by the Organization of American States (OAS) involving all Heads of State in the Americas Region. He is advisor to the International Conference in Engineering Education (ICEE) and advisor to the Institute of Electrical and Electronics Engineers (IEEE) Latin America Region, and he is an IEEE Senior member. He served as a member of the National Academy of Sciences of Bolivia, as special consultant to the Latin American ambassadors to the United Nations in Science and Technology, and is advisor to several governments and multilateral organizations (OAS, IIDB). He has been involved in the creation and enhancement of over 12 international Technology Parks and has fostered



IFEES 2017 Elections Ballot

entrepreneurial activities worldwide. He was the Executive Vice-president and Chief Development Officer for Gridline Communications Holdings, Inc. a startup company.

An active member of scientific and professional societies including ASEE and IEEE, Dr. Jordan has published extensively in books, journals, magazines and on the web. He serves on the editorial board of Computers and Software Engineering, is editor of Journal of Computer Science and Technology, and is editor and advisor to the Ibero American Journal on Technology in Education and Education in Technology. In addition to conference presentations, he has given over 100 invited Keynote presentations. He has received many national and international Honors and Awards including two Silver Quilt Awards, Motorola; International Excellence Award, University of New Mexico; Growing with Technology Award, Cisco Systems; Professional Progress Award, Kansas State University; Award for Contributions in Higher Education and Science and Technology, Organization of American States; Achievement Award for Innovations and Accomplishments in Multilingual IT Infrastructure in Engineering Education, iNEER-ICEE; and Award for Meritorious Work in Engineering and Computer Education, International Conference on Engineering and Computer Education. He is bestowed with the Order of Rio Branco, in the rank of Officer, by the Brazilian Government.

Rationale Statement

Around the time frame of 1992, during one of the ISTEAC events in the Ibero-American Region, it occurred to me the theme of “one planet, one environment, one chance”. This has a wide range of implications that transcends flags, national anthems, diversity, and geographical borders. It implies that we are all living together peacefully and solving world problems that touches all of us. Later in 2011, during WEEF 2011, I presented another theme, tied to the first, called “Peace Engineering”. If we put both themes together it becomes the theme of the next WEEF-GEDC-2018 event to be held in Albuquerque, New Mexico (USA) from November 11 through 14, 2018. Clearly, this event will bring a lot of visibility and opportunities for both IFEES and the GEDC.

I like to walk my talk. I believe I can be an asset to IFEES as its President to further its growth, its global reach, make it sustainable and have an impact in the world. We have invested time and effort in developing a very ambitious Strategic Plan (see an excerpt below). We need now to execute this plan and for that, we need resources. We (stakeholders) all can participate and be proactive in fundraising. We also need to identify the right people (champions not leaders) to work in the execution of projects for the benefit of the membership. I believe I have the capability of championing and getting things done in these two very important areas of fundraising and identifying the right people for the execution of projects. ISTEAC is a project based consortium where the membership benefits by its very focused projects that land in each institution, that is, it has impact. Thus, I have the expertise of 27 years to deliver project based activities that will benefit the membership of IFEES.

In addition, we have a wide range of members and the gap between the rich and the poor is widening. It is not good enough to have ideas to address the diversity we have in our stakeholders, we need to execute projects that can enhance collaboration among the membership, close the gap, and for that we need resources. Once again, I strongly believe I am suited for this challenge. This implies in being a social and business entrepreneur that can help create or enhance natural ecosystems for sustainable efforts globally. Through my experience with GINET and ISTEAC I can help create or enhance natural ecosystems. Furthermore, I bring my expertise in developing internationalization plans for Schools of Engineering, and institutions, for partnering with international institutions (academia, industry, governments) in specific and broad efforts for building education and research infrastructures to policies and strategic plans. I have been invited across the world to relay my expertise.

I want to bring to IFEES and its membership my experience and global leadership to further its vision, mission and objectives.



IFEES 2017 Elections Ballot

Tania Bueno | Candidate for the IFEES Executive Committee



Tania Bueno

i3G

Institute for Electronic Government, Intelligence and Systems
Brazil

Biography

Tania Cristina D'Agostini Bueno is a consultant in the field of Knowledge Engineering for Software Development and Research. She is the Chairman of the Scientific Council Institute for Electronic Government and Intelligence and Systems (i3G) and a Permanent Founding Member and a special adviser at the Federal Medical Council in Brazil. She completed her Ph.D. in Production Engineering from the Federal University of Santa Catarina in 2005, completed her Master's degree in Production Engineering from the Federal University of Santa Catarina in 1999 and completed a specialization in Software Engineering with UML, in Senai / CTAI, Florianopolis/SC. She received a nomination in "Who's Who in Science and Engineering 2008-2009" for her work in the field of Information Technology and "Who's Who in the World 2007" for her work as a researcher and manager. She has also been Chairman of the board of the company Web Intelligence Systems S/A and its Commercial Director, and has practiced Law for 5 years. She coordinated the projects MGov2, Ontolegis and Ontojuris (projects with international financing in cooperation with several universities in Latin America and Europe). She is member of the TECLIN project launched by the Polytechnic University of Madrid (UPM) and is a UNESCO Chair of linguistic technologies. She has published 91 papers in conference proceedings, has 9 book chapters and two books published. She participated in the development of ten software products (five patented five and two are in the process of obtaining registration), two processes or techniques and 31 other items of production technique. She participated in eighteen research projects, coordinating six of them.

Rationale Statement

Dr. Bueno has been working to emphasize the importance of teaching “knowledge engineering” as preparation for the effect of AI-driven automation in our society. She aims to encourage the introduction of policies and processes that address ethical, privacy, and security implications to deploy AI-based technologies. Robots and other AI technologies have already begun to displace jobs in some sectors. The big challenge is to drive towards the establishment of a vibrant engineering education to continuous improvement of the technologies. Our educational system is not adequately preparing engineers to work in the future, and our political and economic institutions are poorly equipped to handle these hard choices. It is important to put the students and the use of technology at the center of this issue and discuss the ethics questions. She believes IFEES can play an important role in achieving these challenges.



IFEES 2017 Elections Ballot

Javier Cano | Candidate for the IFEES Executive Committee



Javier Cano
SPEED

Student Platform for Engineering Education Development
Colombia

Biography

Javier Cano has been an active SPEED member since 2013, and has attended WEEF conference since the 2013 Forum was held in Cartagena, Colombia. He has been the SPEED Vice-President for Finance since 2014, served as the Co-Chair last year in Seoul, and is the Chair of this year's Global Student Forum in Kuala Lumpur. Presently, Javier is the longest standing member of the SPEED Executive Committee, and has served as an active and thoughtful student leader in most student-lead engineering education initiatives under the SPEED-WEEF-GEDC umbrella, including several fruitful partnerships with industrial and professional organizations, launching new student initiatives in at least eight new countries, and sharing and acting upon a vision for the future of student-lead engineering education initiatives. He holds a Bachelor's degree in Electronics Engineering from the University Escuela Colombiana de Ingeniería Julio Garavito in Bogotá, Colombia, and is preparing to work on his Master's degree at the University of Applied Sciences in Würzburg-Schweinfurt, Germany. Javier's time away from school and SPEED is spent working on his social entrepreneurial venture called the JADA Foundation (Fundación Internacional para el Desarrollo de la Educación y Cultura de la mano de la Tecnología). The JADA foundation works with low-socioeconomic status and indigenous communities in Colombia to provide them with educational opportunities via accessible technology while preserving their culture. With all his work and alongside others, Javier aims to provide educational tools and resources to people who need them the most.

Rationale Statement

Javier believes in the power of ethical and well-intentioned engineering work to solve the major challenges the world faces today. He believes that having been part of the extended IFEES community has given him and others several opportunities to put this to action. Being a part of the IFEES Executive Committee and having the opportunity to interact with the more than 50 IFEES members and partners will give him the opportunity to actively work on such initiatives and create more such opportunities for others. He hopes to bring forth his experience of working with multiple stakeholders across universities all over the world, leading and supporting well-meaning initiatives for engineering education, and ensuring all voices in the room are heard and respected. IFEES celebrating 10 years is a proof of the motivation that its members carry to improve engineering education, and Javier wants to further bolster and spread this motivation around the world.



IFEES 2017 Elections Ballot

Uriel Cukierman | Candidate for the IFEES Executive Committee



Uriel Cukierman
CONFEDI

Consejo Federal de Decanos de Ingeniería
Argentina

Biography

Uriel Rubén Cukierman received a professional degree in Electronic Engineering from the Universidad Tecnológica Nacional (UTN), Argentina, and a master's degree in Enterprise Information Systems Management from the Universidad Politécnica de Madrid (UPM), Spain. He is presently working on his Ph.D. thesis in the field of Learning Sciences at the Universidad de Buenos Aires (UBA), Argentina.

Presently he is a professor/researcher at UTN and the Director of the Research Center for Innovation in Education at the same university. He is also the Associate Director of InnoVaHiEd and has been appointed as Research Professor at the University of New Mexico, USA. He has served as the Dean of Engineering at the Universidad de Palermo (UP) and, previously, as the Information & Communications Technologies Secretary (equivalent to a VP position) at UTN, the largest Engineering School in Argentina, for more than 15 years. In 2012, he co-chaired and hosted the World Engineering Education Forum (WEEF) 2012, the largest ever engineering education conference, coordinating with eight different global organizations, several government agencies, and corporate sponsors. He was elected as the President of IFEES in 2014, and he is currently finishing his period as Immediate Past President. He was recently awarded as “Distinguished Educator” by the IOEM, “Honorary Professor” by the Universidad Ricardo Palma in Lima, Peru and International Engineering Educator Honoris Causa by IGIP (Austria).

He is the former Director of the Learning Technologies Bachelor at UTN, founder of the Electronic Department and former Director of the Technical School ORT Argentina. His research interests in Learning Technologies include the areas of mobile devices, learning management systems and the digital divide. Professor Cukierman has contributed to the National Universities Network as a member of its Administrating Committee and has worked as a consultant for the National Communication Secretary and National Education Ministry in projects for distance learning and reducing the digital divide. He has taught at the university level for over 35 years in electronics, computing, multimedia and learning technologies. He has served as a lecturer in seminars, courses and other specialized activities throughout Argentina and around the world. He has written and published several original technical documents in different newspapers, journals and magazines in Argentina and other countries; has produced three books about Learning Technologies and Engineering Education, one of which was published by Pearson and has authored five book chapters and more than 50 technical papers in referenced journals and conferences.



IFEES 2017 Elections Ballot

Other positions Professor Cukierman has held include: IFEES Executive Committee Member (2013-2015); GEDC Executive Committee Member (2013-2016); LA Horizon Report (NMC) Advisory Board Member (2013); STEM Horizon Report Advisory Board Member (2012-2013); Member of the Learning Technologies Program Board at UTN; Member of the Asociación para el desarrollo de la Tecnología Educativa y de las Nuevas Tecnologías aplicadas a la educación (EDUTECH) – Spain; Member of the Technical Committee at the Latin American and Caribbean Collaborative ICT Research Federation (LACCIR Virtual Institute); Member of the iNEER (International Network for Engineering Education & Research) Leadership Council (2006/2008); Co-coordinator at the Red Universitaria de Educación a Distancia (RUEDA) – Argentina (2009/2011); Secretary of the Executive Committee at Red de Interconexión Universitaria (RIU) – Argentina (2005/2009); Former Chairman of the Microsoft Research Latin American Advisory Board (2003/1007).

Rationale Statement

Even in my youth, when I was still an engineering student, I did not limit myself to my studies, but was involved in academic and management activities at my university. Thirty years ago, I was elected by my fellow students to represent them in the Electronic Department Council. At that time, I also began my academic career as a student teaching assistant.

During these 30 years, my career has taken a very dynamic path, including high-level academic, scientific and management positions at several educational institutions. This trajectory, mostly devoted to engineering education, and particularly my recent experience as President of IFEES, gives me confidence about my ability to integrate onto the IFEES Executive Committee.

As a global organization, IFEES requires global leaders, accustomed to international relationships and the capacity to take advantage of modern communication's resources to facilitate the active participation of all its members, regardless of their ability to personally attend meetings. Over the last 15 years of my life, I've been able to establish relationships with people, universities and organizations in Europe (Germany, Spain, Italy, Great Britain, France, etc.), Asia (Israel, China, and India), Africa, Australia, and almost every country in Latin America. I also have strong relationships with corporations from all over the world and want to take advantage of these connections to empower our organization and, more significantly, the people that give meaning to this collective enterprise.

I am passionate about engineering education, particularly on the subjects of learning technologies and internationalization, in which I will be able to contribute to serving the mission of IFEES. I have been an active member of this organization since 2008. I have also had frequent interaction with IFEES' corporate and institutional members; therefore, I believe I have a deep understanding of the singularities and potentialities of this outstanding organization. Last, but not least, as I am from a Latin American country, I am aware of the situation in developing countries and would be able to contribute a broad and global perspective to the organization with this particular vision.



IFEES 2017 Elections Ballot

Paul Marca | Candidate for the IFEES Executive Committee



Paul Marca
IACEE

International Association for Continuing Engineering Education
United States of America

Biography

Mr. Paul Marca is Associate Vice Provost, Stanford University, Office of the Vice Provost for Teaching and Learning. He has spent 29 years in various roles at Stanford and currently directs a portfolio of over 250 graduate and professional courses annually to industry. He has been instrumental in developing and implementing an international portfolio which includes Singapore, China, India, Korea, Malaysia, Brazil, United Arab Emirates and in numerous European countries including France, Germany, Denmark and Sweden. In 2013, he launched a joint online non-credit certificate program between the School of Engineering and the Graduate School of Business: the Stanford Innovation and Entrepreneurship certificate. This is the first formal online education cooperation between the schools.

He has also developed a number of innovative university-industry and university-university partnerships to extend Stanford's educational reach with effective 'go-to-market strategies', including the award-winning Stanford Advanced Project Management program and the Strategic Decision and Risk Management program. Paul has also advised universities, corporations and governmental organizations how to develop and extend education as a means to sustain innovation. Externally, Paul has served as an advisor to numerous startups including xBrain, providing the automotive industry a connected car platform. Paul serves the International Association for Continuing Engineering Education (IACEE) as a council member and First Vice President. He has also presented keynote speeches and workshops around the globe on connecting innovation, strategy and execution. Paul has a B.A. in Communication, with an emphasis in Television & Film production, from Stanford University.

Rationale Statement

This document is to provide rationale for the nomination of Paul Marca, First Vice President of the International Association for Continuing Engineering Education (IACEE) and Associate Vice Provost, Stanford University to the board of the IFEES. With his reputation as an innovator in the education space, an effective administrator developing online strategy and university policies and creator of a number of successful programs and industry engagements, Paul brings a wealth of experience to the potential role as an IFEES Executive Committee member.



IFEES 2017 Elections Ballot

In his nearly 30 years working in a variety of roles in education at Stanford, Paul has been a leader in connecting industry and Stanford education. Among his accomplishments, he was on the senior team responsible for the first online engineering degree in the world, offered from Stanford's electrical engineering department in 1996. He was a pioneer in combining different learning modalities, creating the first blended professional certificate in 2000, with the Stanford Advanced Project Management program. He continues to direct one of the world's most successful extended education units, with over 25,000 professional enrollments in a portfolio with graduate degrees, professional education and custom programs.

As an administrator, Paul has played an important role in evolving strategy and policies related to online education at Stanford. As part of Stanford's Commission on Technology in Higher Education in 2012, Paul was a key figure in identifying trends and opportunities which led to the formation of a new vice provost office at Stanford. The Office of the Vice Provost for Teaching and Learning, where he is currently Associate Vice Provost, facilitates faculty to use technology in their teaching and also enables them to extend their work beyond campus, not only through Stanford's own platform, but also through other platform partnerships.

On the program development front, Paul has recently focused attention on working with faculty to develop programs with regional impact. These include helping nurture entrepreneurship in the Lille France Nord region, supporting the UAE develop new teaching styles and content delivery approaches for all university students and guiding Thailand's top business leaders in an era of dynamic change.



IFEES 2017 Elections Ballot

Luis Manuel Sánchez-Ruiz | Candidate for the IFEES Executive Committee



Luis Manuel Sánchez-Ruiz

SEFI

European Society for Engineering Education
Spain

Biography

Born in 1958, in Tetuan (Morocco), Luis Manuel Sánchez Ruiz earned his MSc in Mathematics at Universidad de Valencia (UV), Spain, in 1980, and his PhD in Mathematics (UV) in 1988. His current research interests include Engineering Education as well as Functional Analysis from theoretical and applied points of view. His supervised dissertations comprise: “Study of some barreledness conditions in locally convex spaces” (2002); “Analysis, proposal and development of some objective measure in 123/-mIBG scintigraphies for neuroblastoma patients” (2016) and “Computational assessing model based on performance and dynamic assignment of curriculum contents” (2016). Lastly, he is working on an ongoing dissertation on “STEM subjects face the haptic generation.”

Luis Manuel Sánchez Ruiz has been employed by Technical University of Valencia (UPV, Spain), since 1980 where he became Full Professor in 2000. He had been a Visiting Professor at the University of Florida, Gainesville, FL, USA on several occasions between 1992 and 1999. He has worked with electronic engineering, mechanical engineering and industrial design engineering students. Since 2005, his lecturing has addressed Aerospace Engineering. He has published over 10 textbooks for engineering students and over 150 papers in papers in scientific journals and conference proceedings, including a research monograph in Longman (1995), and achieving competence-based curriculum in engineering education in Spain, proceedings of IEEE 97, 10 (2009), 1727-1736. He has full language competence in English and Spanish, can communicate in Italian and French, and can follow Portuguese.

He is also a Former Director of the UPV Programs Office with USA/Canada and Asia/Pacific and Academic Coordinator at the Mediterranean University of Science and Technology, Member of the Board of Directors (Administrative Council) of SEFI since 2012 and Vice Dean and Head of International Relations at ETSID (UPV). Furthermore, he is responsible for several research projects granted by the Spanish Ministry of Education. He has been Academic Coordinator of several transnational programs at UPV, such as the European Commission funded Erasmus Mundus Action 2 Programme, Innovation and Design for Euro-Asian Scholars (IDEAS), which involves universities from India, Pakistan, Malaysia, Bhutan and Nepal and a triple degree program between the UPV, the University of Parma and New Jersey Institute of Technology (NJIT). He has been working for IEEE Frontiers in Education Conference Program Committees.



IFEES 2017 Elections Ballot

He is currently involved in two EACEA projects: ACADEMICA, meant to harmonize and update higher education in Central Asia (Turkmenistan, Kazakhstan and Uzbekistan), and THINKING SMART associated with Research and Innovation Strategies for Smart Specialization (RIS3). He has participated in several World Engineering Education Forums (WEEF), ASEF events such as Asia-Europe Education Workshops and ECED European Convention for Engineering Deans, organized jointly by SEFI and CESAER, being co-Chair of the one organized in Valencia 2015.

He is currently Vice President of the European Association for Engineering Education (SEFI), UPV Director Research and Innovation Programs Area, member of the Editorial Board of *Scientiae Mathematicae Japonicae*, and Coordinator of the Group of Innovative Methodologies and Assessment for Engineering Education (GRIM4E) at UPV.

Rationale Statement

In agreement with the SEFI President Elect, Prof. Mike Murphy, and the SEFI Board of Directors, I am addressing to you in order to present my candidacy to serve for the two-year mandate on the IFEES Executive Committee. Through some IFEES Presidents and Executive Committee members, I have known since 2006 of IFEES' activities which are highly appealing and in which SEFI has been involved since its creation. Engineering education is a topic of growing interest worldwide as a means to provide qualified professionals that are required for the well-being of people and societies.

Thus, it was natural the arising of different engineering education societies with different scopes and environments. Subsequently the creation of a society such as IFEES was needed in order to gather different organizations and to facilitate the cooperation between them in search of high quality programs and to facilitate the acquisition of key competencies throughout institutions participating in corresponding engineering societies.

One of such key competencies where IFEES is playing a relevant role is the ability of understanding the different environments and cultures where increasingly interdependent engineering problems and solutions have to be understood and applied. The arising of the digital citizen born in the 21st century to the university and coached by instructors that are immigrant digitals will bring out some hectic years in engineering education, where deep collaboration will facilitate coping with this challenge.

Throughout my background, with over 30 years involved in international relations all over the world, interest in engineering education, and an active role within SEFI—first as member of the Board of Directors for 2012-15 and since 2015 as SEFI Vice President, elected for the period 2015-18—I am ready to offer IFEES my experience and strong dedication in contributing to IFEES' visibility and pursue its vision, mission, objectives and values as described in its IFEES Strategic Plan 2015, to which I fully subscribe.

I look forward to having the opportunity to serve IFEES on the Executive Committee and taking part in raising engineering education worldwide.