

Women and Men in Engineering: Building an Influential STEM Field Together

This year, the 30th IEEE Canadian Conference on Electrical and Computer Engineering (CCECE'17) will include a special IEEE Women in Engineering (WIE) Session on supporting women in STEM (Science, Technology, Engineering and Mathematic) fields.

When: 3:50-5:20 PM, May 1st, 2017

Where: Saturni, Caesars Hotel, Windsor, Ontario.

Our honorable speakers will inclusively address men in the audience and will bring a female perspective on important topics, such as support, communications, leadership and diversity. Studies show that, although an equal education opportunities are provided for both genders nowadays and more female enrollment is recorded in post-secondary education, women are still significantly underrepresented in STEM fields and are more likely to leave STEM jobs after graduation than men. Not only this indicates an evident gender gap in STEM professions, but it also means that the full potential which comes from diversity to drive STEM fields forward is not utilized. We strongly believe that underrepresentation of women in STEM fields, and in Engineering particularly, is not a problem of women alone and men play a big role in female entry to and retention at these fields. Men are also an important and valuable part of WIE group as it is opened to everyone who supports women in engineering.

Join us for this event and you will learn about the key gender differences in the workplace and how to attract women to and support their retention at STEM professions, thus creating stronger teams and better, more diverse and sustainable future for these fields. Together we can achieve more!

All attendees will participate in a prize drawing at the end of the session.

The schedule details:

15:30 – 15:50 – Registration and Coffee

15:50 – 15:55 – Opening Remarks by Elena Uchiteleva, Regional Coordinator of IEEE WIE Canada

15:55 – 16:00 – Introduction to WIE by Rose Gomar, Chair of IEEE WIE Windsor

16:00 – 16:15 – Jacqueline Stagner *“Attracting and Retaining Women in Engineering at Universities”*

16:15 – 16:30 – Maike Luiken *“The Courage to Lead: Diversity Aware Leadership”*

16:30 – 16:45 – Ferial El-Hawary *“Mutual Support is the Key for Winning in the Journey of Life”*

16:45 – 17:00 – Ana Luisa Trejos *“Bias in STEM: Conscious or Unconscious?”*

17:00 – 17:20 – Questions and Discussion, Ferial El-Hawary, Maike Luiken and Ana Luisa Trejos

17:20 – Draw, closing remarks and adjourn

Speakers' information:



Dr. Jacqueline Stagner is the faculty advisor for the Women in engineering student group at the University of Windsor, helping to get the group started when female engineering students voiced a need for creating the group. She also assists with the planning and hosting of GoEngGirl, an event which is held each fall at the University of Windsor for girls in grades 7 to 10 to learn about the field of engineering, and has served as the moderator and a panelist at the event. Jacqueline loves the field of engineering and enjoys sharing this love with young women who are looking for a challenging and creative career that benefits society.



Dr. Ferial El-Hawary (M'82-S'86-F'99) received the B.Eng. degree from University of Alexandria, and the M. Sc. from the University of Alberta, Edmonton, Canada, in Electrical Engineering; and the Ph.D. in Oceans Engineering from Memorial University of Newfoundland, Canada. Dr. El-Hawary is the President and founder of BH Engineering Systems Ltd. She served on the Faculty of Engineering at Dalhousie University, where she established and directed the Modeling & Signal Analysis Research Laboratory, where she developed and taught related courses linking academic innovations to industrial needs. She has published widely in IEEE Journals and she is the Editor-in-Chief of The Ocean Engineering Handbook. Also, served as Associate Editor of IEEE Oceanic Engineering Journal. (She has established and developed the Task Force for WIE of the Association of Professional Engineers of Nova-Scotia, 1990). Prior to that, she spent two years (1971-1973) in Brazil following her husband Mo in being part of the team for establishing a Higher Engineering Research Institute which is well recognized as (COPPE) in Rio de-Janero, Brazil . She is IEEE-Canada (Region-7) Director 2008-09, and served many of IEEE Standing Committees. Currently she is serving on IEEE/Oceanic Engineering Society Board. Ferial is recognized for her leadership in establishing many of IEEE- OES Chapters in Halifax, France, Norway and a joint OES Chapter in Quebec City, Canada. Ferial served as IEEE OCEANS'08 General Co-Chair, IEEE Section Congress'08 and IEEE OCEANS'11 Organizing Committees. She was the General Chair of IEEE Canada International Humanitarian Technology Conference (IHTC'2014), Montreal, Canada. Also, she has participated in many of IEEE Panel Discussions related to higher education and IEEE/OES Oceans related. She is the recipient of the IEEE-Systems Man & Cybernetics Society (SMC) Outstanding Contribution Award, IEEE- Educational Activities Board (EAB) Meritorious Achievement Award in Continuing Education, Marine Technology Society (MTS) Ocean Engineering Compass International Award, the J.J. Archambault IEEE/Eastern Canada Council Merit Award, IEEE Third Millennium Medal, IEEE/RAB Achievement Award and IEEE/OES Distinguished Service Award. She is Fellow of (MTS), Fellow of the Engineering Institute of Canada (EIC), and Fellow of IEEE.



Dr. Ana Luisa Trejos, P.Eng., Senior IEEE Member, is an Assistant Professor in the Electrical and Computer Engineering Department at Western University and an Associate Scientist in the Canadian Surgical Technologies & Advanced Robotics at Lawson Health Research Institute, London, Ontario, Canada. She received her Ph.D. degree in Electrical Engineering in 2012 from Western University as well. Her research interests include devices for minimally invasive surgery, the design of wearable devices for the treatment of chronic pain, as well as the development and evaluation of systems for surgical training and motor skills assessment. Dr. Trejos is a recipient of more than 19 excellence awards, such as Alexander Graham Bell Canada Graduate Scholarship (CGS-D) Natural Sciences and Engineering Research Council of Canada (NSERC) Award, Peter C. Maurice Research Fellowship in Biomedical Engineering Award from Western University, Early Researcher Award from Ontario Ministry of Research and Innovation, Jean MacDonald Award from the University of British Columbia, 2015 WORLDdiscoveries Vanguard Award and many more. Ana Luisa is a frequently invited guest speaker and panel presenter at various conferences, seminars, workshops, and symposiums, where she enjoys sharing her knowledge and expertise with a wide range of researchers and engineers. She also serves as the Chair of the Bone and Joint Seminar Committee at Western University, whose goal is to inspire and encourage interdisciplinary collaborations by exposing other disciplines in the general university community to research topics in musculoskeletal health. Dr. Trejos has been serving as the Vice-Chair of the IEEE WIE London since 2014. She also contributed and is contributing to numerous community outreach programs which promote engineering and women in STEM.



Dr. Maïke Luiken is the IEEE Canada President-Elect 2016-2017 and will serve as the IEEE Canada President 2018-2019. She was the past founding director of the Bluewater Technology Access Centre (BTAC) (2013) following eight years as Dean at Lambton College, first as Dean, School of Technology, Applied Sciences and Apprenticeship, Fire School, Applied Research (2005), then as Dean of Applied Research and Innovation, Business Development and Sustainable Development (2007). Prior to her engagement at Lambton College, she was Vice-President Research Alliances at the National Capital Institute of Telecommunications (NCIT) in Ottawa. Maïke obtained her Staatsexamen in Mathematics and Physics from the Technical University Carolo-Wilhelmina in Braunschweig, Germany (1979) and her Ph.D. in Physics from the University of Waterloo (1982). She spent a year at the University of Manitoba studying for a Master's in Electrical Engineering.

Maïke is currently serving/has been serving on numerous Boards of Directors and Committees, including Nano Ontario, Canadian Hydrogen and Fuel Cell Association (CHFCA), IEEE Canada, IEEE Canadian Foundation, Sarnia/Lambton Workforce Development Board; Bluewater Sustainability Initiative, Rotary Club of Sarnia; Southwestern Ontario Bio-Products Innovation Network (SOBIN), Sarnia/Lambton Chamber of Commerce, Unmanned Systems Canada, Ontario Centres of Excellence (OCE) Advanced Manufacturing Sector Advisory Board. She contributes frequently to the IEEE Canadian Review as Associate Editor and Editorial Focus Advisor, Technology.

In addition to her academic career and volunteer activities Maïke owns a technology consulting practice and has been engaged in the private sector for 15 years. Maïke is a Fellow of the Engineering Institute of Canada and a Senior Member of IEEE.