

IACEE Pulse

A Newsfeed for Members

12/18/2019

www.iacee.org

Message from the IACEE President



My Dear IACEE Colleagues:

As 2019 ends and 2020 slowly ushers into our lives, we take this opportunity to thank our members for their contributions in making this organization a community that is dedicated in accomplishing the [17 Sustainable Development Goals](#) which the United Nations has set forth. We are committed to the [2030 Agenda](#) and dedicated to showcase our member academic institutions' efforts in doing so on [SERINA](#) – a platform that has built a community for Sustainability Education and Research in Action.

And, we are working hard with the Norwegian University of Science and Technology (NTNU) to bring you the best ever [World Conference on Continuing Engineering Education](#) from 26th to 29th May 2020. We look forward to seeing you at the conference in Trondheim and serving you in the new year and beyond. As 2019 ends, we wish you a peaceful holiday season and a prosperous 2020.

Warmest Regards,
Soma Chakrabarti, PhD
President, IACEE

World Conference 2020 – Registration Open



Conference registration is now open, and we encourage you to [sign up today](#). Be sure to take advantage of the IACEE member early bird registration rate by signing up before 31 March 2020. The fee includes conference attendance, lunch and refreshments, as well as entrance to three special events: a Welcome Reception at Two Towers and Organ Concert at Nidaros Cathedral on 26 May, Dinner at Britannia Hall on 27 May, and a Boat Trip to Munkholmen on 28 May.

First time attendees coming from Africa and Latin America can apply for a scholarship to cover the conference registration fee. Graduate students may also apply for a scholarship. To apply, email iacee2020@videre.ntnu.no with the subject "Scholarship Application IACEE2020". Those granted a scholarship will receive a discount code by email. There are limited scholarships available.

Submit a Nomination – IACEE 2020 Awards

IACEE will present three awards at the 2020 World Conference in Trondheim, Norway. The nomination process for the 2020 awards is still open, but will close in just a couple days on **20 December 2019**. If you would like to submit a nomination, please click on the appropriate award title below and complete the form. Information about each award, including eligibility requirements, is available on the [IACEE website](#).

[IACEE Award for Individual Leadership in Continuing Engineering Education, given In Memory of Joseph M. Biedenbach](#)

[IACEE Award for Corporate Leadership in Continuing Engineering Education, given in Memory of Glen L. Martin](#)

[IACEE Fellow Award](#)

Nominations are collected and handled confidentially by the awards committee, and award recipients are selected by the IACEE Council. If you have any questions, please contact [Katriina Schrey-Niemenmaa](#).

MIT Professional Education Tapping Fourth Industrial Revolution Technologies to Reach & Teach Underserved Audiences

There have been many exciting epochs in MIT's history, but the current era of emerging Fourth Industrial Revolution technologies offers more promise—and peril—than perhaps any other. While we believe these transformational Fourth Industrial Revolution technologies offer great promise, like all technological advances throughout history, they also offer great peril. MIT's top priority is to leverage the former and diminish the latter—an approach that's woven into MIT Professional Education's DNA.

As we position MIT Professional Education to leverage technologies like AI, Digital Learning, the Internet of Things, Virtual Reality, Advanced Robotics – all of these (and other advances we can't yet conceive) – will radically change how, where, when, and even why we do business. To prepare professionals for this uncertain future, we're increasing our offerings worldwide, enrolling diverse students who communicate in different languages. Our student body increasingly comprises professionals of different ages, genders, cultures, and incomes.

As a native Spanish speaker and a person of Cuban descent, I'm especially excited about the new online and blended learning programs we're offering in Spanish. One of my personal and professional priorities is to promote the role of women in science.

I'm honored to have been recognized by Spain's *El Economista* newspaper with one of the publication's inaugural [Hipatia Women in Science Awards](#) in the category of "Business and Science" for increasing female enrollment in MIT Professional Education's Spanish-language Digital Plus Programs aimed at professionals in Spanish-speaking economies.

While grateful for the professional recognition, I'm more excited about MIT Professional Education's comprehensive effort to overcome barriers of language, distance, and cost and make our programs accessible to Spanish speakers across the world.

The gender gap and other disparities in STEM are depriving the global workforce of talented minds that could generate the next technological breakthrough. According to the U.S. [National Science Foundation](#), women today comprise less than 25% of the STEM workforce in the U.S. The gap is even wider for women in Latin America – statistics show only 2% of Latinas held science and engineering positions in 2015. We know women are underrepresented in the worlds of science, technology, engineering, and math. Worldwide, women represent only 16% of the engineering workforce, a slight gain from 1990 when they accounted for 12%.

The gender pay gap is more like a chasm: In the U.S. in 2019, women make only \$0.79 for every dollar men make. Women of different races face various degrees of discrimination when it comes to being compensated fairly for their work: According to [EqualPayDay.org](#), the typical Black woman must work until August 2019 to be paid what the typical White man was paid at the end of December 2018 and the typical Latina woman must work until November 2019.



Clara Piloto (center) accepts the Hipatia Business and Science Award from Alfonso Ortin Castellano (right), director of communication at PharmaMar (Spain). Clara was accompanied by Bhaskar Pant (left) from MIT Professional Education (USA). Photo: *El Economista*

But there are encouraging signs:

- Women make up 47% of science fields relating to humans, animals and plants, versus 34% in 1990 (biotechnology, clinical research, genomics and immunology).
- Women fill 46% of the jobs in math (accounting, finance, economics). In 1990, women represented 43%.
- Women hold 39% of the careers in the sciences of non-living things compared to 22% 20 years ago.
- Women fill only 25% of computer science jobs. In 1990, women represented 32% of the computer science workforce. The number of women in computing has decreased even though the number of computing jobs has increased.

More women are serving in top university leadership roles. According to the American Council on Education's *American College President Study*, in 2016, 30.1% of university presidents were women, triple the share of 1986.

Closer to home, MIT Professional Education has been shrinking the gender gap for several years. An example is our Leadership in Innovation program: When we launched it in Spanish in October 2018, 15% of our participants were female. The course that closed in September 2019 had 40% female participants.

At MIT, the percentage of our female faculty has climbed from 22% to 24% since 2016. We're seeing similar slow but steady growth in the number of female graduate students—this bodes well for the future of females in upper-level, leadership positions—in academia and elsewhere. We believe in personalized learning, flexibility, and giving a voice to the large community of female scientists and researchers at MIT through workshops, meetups, mentoring, and more. That's why we organized events like last May's TEDxMIT, a gathering of the world's top female scientists and researchers and asked them to share their experiences and projects.

These numbers demonstrate MIT Professional Education's commitment to providing world-leading career development education through "learning by doing." We challenge our students to combine theory and practice so they have the tools to solve problems they'll inevitably face in their respective careers. We present real-life challenges--often by the people who experienced those challenges themselves—and encourage students to learn from these strategies and produce innovative, efficient, and effective solutions.

In terms of "nuts and bolts", our courses revolve around teamwork and blend analytical rigor with intellectual curiosity. We probe what's possible, find what fails, and solve problems to improve lives and societies. In addition to the outstanding technical training available to students, we encourage them to be curious, to think creatively, and to imagine all possibilities. This mixture of "hard skills" and "communications skills" is especially important as we grapple with the rapid evolution of business ecosystems.

At MIT Professional Education, we're working on courses that help all our students—regardless of gender, geography, income, age, etc.--understand the potential impacts of Fourth Industrial Revolution technologies. While we know these technologies will profoundly affect how, when, and where we do business, we're preparing our students to understand the impacts on our respective societies, our planet, and worlds in and beyond our galaxy.

Clara Piloto

Director of Global Programs/Director of Digital Plus Programs
MIT Professional Education, Massachusetts Institute of Technology
Cambridge, Massachusetts, USA

IACEE Representation in IFEES Board

IACEE is a proud member of [International Federation of Engineering Education Societies](#) (IFEES). This partnership is strengthened by the representation of IACEE Council members in the Executive Committee of IFEES. Paul Marca (Stanford University, USA), First Vice President of IACEE and Vice President for Strategic Partnerships, just finished his two-year term as an Executive Committee member of IFEES in November 2019, when Dr. Soma Chakrabarti (ANSYS Granta, UK), President of IACEE, joined the Board as the First Vice President and Treasurer of IFEES.



Both Marca (pictured right) and Chakrabarti (pictured left) were present at the World Engineering Education Forum in Chennai, India last month where the IFEES General Assembly was held.

IACEE Webinar Series

Next Webinar – 18 February 2020 – Pursuit of Innovation

Mark your calendar for our next webinar on 18 February 2020 at 16:00 UTC, "Pursuit of Innovation: Past, Present, and the Future of IACEE and Continuing Engineering Education," with Dr. Nelson Baker, Dr. Soma Chakrabarti, and Kim Scalzo.



Key Dates & Deadlines for IACEE2020

All paper contributions (research, work in progress and best practices) – Abstract submission deadline: November 1, 2019

All papers – Author notification: November 15, 2019

Conference Registration opens: December 1, 2019

Full paper submission deadline: ~~December 22, 2019~~ **12 January 2020**

Final revised paper: March 1, 2020

Early bird registration until: March 31, 2020

Deadline for registration of presenting author for research paper: April 1, 2020

Conference dates: May 26 –29, 2020

Follow Us



Join [IACEE's LinkedIn page devoted to SERINA](#) – A Global Initiative in Sustainability **E**ducation and **R**esearch **I**n **A**ction. SERINA is aligned with the 17 United Nations Sustainable Development Goals. Sustainability initiatives displayed in this LinkedIn group, SERINA Facebook page and the SERINA portal are categorized in line with these goals.

Through our SERINA initiatives, the IACEE seeks to connect and grow a global community of individuals and organizations committed to creating a sustainable and prosperous future for everyone.



Don't forget to "like" the [IACEE Facebook Page](#) to stay informed about upcoming events & read the latest IACEE news. We would also love to have you join the [IACEE Facebook Group](#) to see what other IACEE members are doing in the continuing education world.

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IACEE 2020

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BENEFITS	Bronze	Silver	Gold	Platinum	Diamond
Total available packages	5	10	5	3	2
Stand	1sqm 1x1m	3 sqm 2x1,5m	4,5 sqm 3x1,5m	4,5 sqm 3x1,5m	6 sqm 4x1,5m
Techno-mercial presentation					1
Admissions IACEE World Conference	1	2	2	3	4
Discount Admissions IACEE World Conference					10%
Logo with websitelink in conference app	✓	✓	✓	✓	✓
Banner in conference app			✓	✓	✓
Logo w. websitelink on Sponsor page in Conference website	✓	✓	✓	✓	✓
200 word profilettext on Sponsor page in Conference website				✓	✓
Logo w. websitelink on Main page in Conference website				✓	✓
Logo on Auditorium Conference Screens				✓	✓
Logo on Main banner at Conference venue (Powered by:)					✓
Logo on printed agenda brochure					✓
Welcoming remarks during one social event in programme					✓
Scholarships to attendees from Africa, Latin America and Brazil (logo on inv. Letter & scholarship acceptance letter.)					✓

Techno-mercial presentation

NOK 12.500 inc. vat.
(Approx. € 1.250,-)

The Techno-mercial presentations are parallell sessions on Wednesday and Thursday.
Length: 30 minutes

Book your IACEE 2020 sponsorship package at:

www.iacee2020.org/sponsorship