MESSAGE FROM THE DEAN

Earlier this month, the College of Engineering brought our yearlong 70th anniversary celebration to a close during UM Homecoming and Alumni Weekend. The entire CoE community has made this past year a true milestone year.

We started our anniversary celebration with a luncheon honoring the founding chairman of the Department of Civil Engineering, Murray I. Mantell, who just celebrated his 100th birthday. Thank you, Dr. Mantell, for laying our foundation.

We held the inaugural CoE Senior Design Expo, where our students’ senior design capstone projects demonstrated innovation. During this expo, well attended by industry, several of our students received job offers on the spot!

We also opened the UM College of Engineering - Johnson & Johnson 3D Printing Center of Excellence Collaborative Laboratory, a great example of collaboration between academia and industry. If you haven’t yet gotten to see this incredible lab and its state-of-the-art additive manufacturing equipment (also known as 3D printing), I invite you to stop by the College and check it out.

Happy Thanksgiving to you and your family. Thank you for everything you do and for being part of the UMCoE family.

Jean-Pierre Bardet
Dean and Professor
A Game-Changing Hub for Innovation and Collaboration

The University dedicated the new College of Engineering-Johnson & Johnson 3D Printing Center of Excellence Collaborative Laboratory last week, giving faculty and students access to ten 3D MakerBots that use polymers and two 3D metal printers that use titanium or stainless steel to make objects limited only by imagination.

Scholarship Turns Dream Into Reality

As a young girl growing up in Venezuela, neither the University of Miami nor an engineering degree was on the radar for Maria Villasmil (BSIE ’16). But a move to Miami, a love of science and math, and the College of Engineering Scholarship Fund changed all that.

Working Together to Build a Sustainable Future

Restoring Cuba’s Historic Infrastructure

Cuba Water Hassles
In Memoriam: John A. Stevens, BSCE ’50

John A. Stevens, BSCE ’50, passed away on Sept. 3 at the age of 96. He taught at the CoE for more than 34 years and was especially known for his geotechnics, soils and corresponding lab. Click here to read the full obituary.

Abdel-Mottaleb Named Editor-in-Chief for IEEE Biometrics Compendium

Mohamed Abdel-Mottaleb, professor and chair of the College of Engineering Department of Electrical and Computer Engineering, has been named editor-in-chief for the IEEE Biometrics Compendium, a quarterly virtual journal published by the Institute of Electrical and Electronics Engineers Biometrics Council.
Fighting Superbugs With Nanoparticles

Sung Hee Joo, an assistant professor in the Department of Civil, Architectural and Environmental Engineering, received two grants from the United States Environmental Protection Agency (EPA) for two distinct research projects concerning nanotechnology. The first research project, titled “Water Purification System for the Removal of Antibiotic-Resistant Bacteria Using a Graphene Bead Filter,” will develop and advance applications of nanotechnology for the removal of difficult-to-treat contaminants, specifically antibiotic-resistant bacteria.

The Revolution of the Material Handling Industry: Improving the Efficiency of Electrical Material Handling Vehicles

The North American material handling industry is quickly shifting from the conventional petroleum-based equipment to the cleaner, more sustainable electrical-based equipment. Assistant professor in the Department of Industrial Engineering Seokgi Lee says the main driver for this change “is the lowered operation costs and reduced fueling by EMVs. Since restraining excessive energy consumption and limiting greenhouse gas emissions is required by most of today’s logistics companies, implementing a variety of affordable energy-saving and environmentally friendly operation strategies, such as EMVs, is an important priority.”
Meet Juliana Albarracín ’20: Breaking the Engineering Glass Ceiling

As a junior at an all-girls high school, Juliana Albarracín participated in a field trip to the University of Miami, sponsored by the University’s Society of Women Engineers. Girls from high schools all over Miami-Dade who were interested in mathematics attended. At that event, Albarracín won an engineering contest, and that’s when, in her words, “I knew I was going to end up here.”

Student Ambassador Profile: Sarah Franceski, BSME ’20

Students at the College of Engineering have unique opportunities to learn in environments with outstanding faculty who make a large effort to develop one-on-one relationships with students. In this position, I help with student panels and other prospective-student events.
Internship Profile: Victoria Popp, BSBE ’20

I learned about this mission opportunity through online resources. This mission trip was focused on helping those in the Dominican Republic who were suffering from orthopedic issues. The people who were operated on and cared for were mostly underprivileged children.

Student Ambassador Profile: Daniel Mejia, BSBE ’18

This summer I was working on my research project with Dr. Ozdamar in the Neurosensory Lab. The project is focused on finding any key differences between musical and non-musical subjects’ auditory pathway/response. We analyze auditory-evoked potentials based on measuring the subjects’ auditory pathway/response.

Meet Michael Bowermaster ’21: Going Out on a Limb

Student Ambassador Profile: Rachael Snyder, BSBE ’19

Student Ambassador Profile: Rose Thatcher, BSBE ’18

MAINLAND DONORS
Alumna Story: Nicole Samec, BSBE ’15, MSBE ’15

Nicole works as the healthcare product manager at Magic Leap, a start-up mixed reality company in Dania Beach.

Alumnus Story: Andrew Gotschall, BSME ’10

Andrew is a preconstruction engineer with Turner Construction.

Alumnus Story: Pablo Meles, BSEE ’86

Pablo works as an intellectual property (IP) attorney filing patents and trademarks, domestically and internationally; drafting, editing or reviewing agreements or disclosure documents relating to IP assets.

Alumna Story: Roxanne Ramos Rodriguez, BSIE ’13

Roxanne is the process improvement department manager for AAR Aircraft Services.
ALUMNI NOTES

Share the latest updates on your life, career, weddings, babies, family, recent adventures and gatherings with other College of Engineering alumni. Submit your alumni note to coealumni@miami.edu.

| Nov 20 | 12:00 pm | Thanksgiving Recess |
| Nov 23 | 3:30 pm  | Distinguished Seminar Series: Dr. David Tirrel |
| Dec 02 | 12:00 pm | IEEE UHack |
| Dec 13 | 10:00 am | Fall 2017 Commencement Ceremonies |

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