MESSAGE FROM THE DEAN

As 2017 comes to an end, we can look back at some incredible strides at the College of Engineering this year.

We are investing in research and innovation more than ever before. We're re-defining engineering education with Active Learning. Our students and faculty have been featured in media around the world. We witnessed the rise of women in leadership positions at the CoE and spread the culture of belonging we strive to nurture.

Every member of the College of Engineering community – faculty, staff, students, alumni, donors, parents and friends – should be proud of this year’s accomplishments. Thank you for making this another incredible year for the CoE. We head into 2018 filled with excitement and anticipation for another year full of accomplishment, discovery and learning.

Happy holidays,

IN THE NEWS
IN THE NEWS

The Rise of Women in Engineering

The University of Miami stands as a launching and landing pad for many talented women engineers, including two in key leadership positions at the College of Engineering and two of the College's alumni who are new members of the Board of Trustees.

Organs on a Chip

In a revolutionary new approach, Ashutosh Agarwal, assistant professor of biomedical engineering, and of pathology at the Miller School of Medicine, is combining traditional engineering structures and materials, such as metal or plastic, with stem cells from rodents and humans to create a heart, pancreas and lungs that mimic the real organ, including how it functions both normally and when it is diseased. The chips, small enough to fit in your hand, are created through 3-D printing and 3-D milling with intricate, precise measurements.
Three Generations of Engineers

Professor Emeritus Dr. Kamal Yacoub joined current Kamal Yacoub Endowed Scholarship recipient senior electrical engineering student Robert “Josh” Collier and past recipient Tom Gillette, BSEE ’91, CIO of Mount Sinai Medical Center, over lunch on Nov. 30. Josh said, “It was interesting to have three generations of engineering at UM get together to tell their stories.”

Bending Mirrors in Space: How a New Technology Increases the Efficiency of Space Telescopes

Victoria Coverstone, professor and chair of the Department of Mechanical and Aerospace Engineering, is leading the research of a technology that will allow the launch of visible-to-infrared mirrors with diameters much larger than what the current launch vehicle fairings allow. This would enable small satellites, such as CubeSats, to take over roles that are currently being filled by larger, more expensive satellites.
The Journey From Discovery to Commercialization

Lack of development resources and lack of familiarity with the process of product development mean that many discoveries never see the light of day. Suhrud Rajguru, an associate professor in the Department of Biomedical Engineering and Miller School of Medicine's Department of Otolaryngology, is collaborating with the National Center for Advancing Translational Sciences (NCATS) to spearhead identifying biomedical discoveries with commercial potential that may normally be overlooked.

Electrical and Computer Engineering Professor Named American Association for the Advancement of Science Fellow

Mei-Ling Shyu, professor and associate chair of the Department of Electrical and Computer Engineering, has been named a fellow of the American Association for the Advancement of Science (AAAS).
Student Ambassador Profile: Swati Narasimhan, BSMAE '19

The Society of Women Engineers (SWE) is my favorite organization. I have been involved on its executive board since my freshman year, allowing me to view firsthand the great work that the organization does. SWE provides a network of support to the females in our engineering college, and we share that support and inspiration with budding female engineers in grades 1-12 through numerous outreach events throughout the year.

Chet Montefering: Pursuing a Passion for Innovation

His drive to solve problems, improve on existing designs and create new designs continues to push Montefering in both his studies and his life. "I love technology. Ten years ago we were introduced to the iPhone and now look at its capabilities," he says. "I want to be on the cutting edge of innovation."
Student Ambassador Profile: Cecelia Poole, BSME '19

Student Ambassador Profile: Jordane Bloomfield, BSEE '20

Student Ambassador Profile: Laura Puentes, BSBE '19

Student Ambassador Profile: Oraya Vesvoranan, BSBE '19

Student Ambassador Profile: Michael Warrell, BSIE '19

Student Ambassador Profile: Mizelle Joy Hornilla, BSIE '20

Student Ambassador Profile: Isa Mulvihill, BME '18

Student Ambassador Profile: Brianna Woolfolk, BSEE '20
Alumna Story: Ileana C. Barbara, BSIE '84, MSIE '87

The CoE at the University of Miami has played a major factor in my development and career as an engineer. Being a CoE graduate has brought me long-term fulfillment.

Alumnus Story: Sam Dorman, BSME '15

UM College of Engineering Alumnus and Olympic Silver Medalist Sam Dorman was selected to represent Swiss watchmaker Mido.

Nearing the goal in the 70 for 70 Giving Challenge to support the College of Engineering Scholarship Fund.

In Memoriam: Justin Lamont Green, BSIT '04, passed away on Nov. 14, 2017 in Palmetto Bay, Florida. A scholarship is being created in his honor. Click here for more information.
ALUMNI NOTES

James Mullaly, BSBE ’06, recently accepted a new leadership role as director, quality operations at AtriCure Inc., based in Mason, Ohio. AtriCure Inc., provides innovative technologies for the treatment of atrial fibrillation and related conditions. Prior to AtriCure, James served as manager, quality manufacturing at NuVasive Inc., in Dayton, Ohio. Current biomedical engineering student Paige Hockley, BSBE ’18, worked with James this past summer as an intern.

Share the latest updates on your life with other College of Engineering alumni. Submit your alumni note to coealumni@miami.edu.

CALENDAR OF EVENTS

| Dec 19 | 9:00 pm | Fall 2017 Classes End |
| Dec 28 | 9:00 pm | Final Grades Available to Students in CaneLink |
| Jan 15 | 8:00 am | University Holiday: Martin Luther King Jr. |
| Jan 14 | 7:00 am | Spring 2018 Classes Begin |

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