MESSAGE FROM THE DEAN

I hope your year is off to a good start. As we move further into 2018, the College of Engineering remains committed to making a global impact through transformative research. Our faculty are engaged in commercialization of research and are securing competitive federal grants. Our students are blossoming through experiential learning, printing a 3D Electric Guitar, showcasing their research at national conferences, transforming concept into prototype and combating chronic disease by using an innovative wellness strategy.

This month, we celebrate Engineers Week, the annual national event recognizing how engineers make a difference in our world. On February 23-24, we will be hosting the Pi Tau Sigma national convention. On February 26, the College of Engineering and the Miller School of Medicine will be hosting a symposium with the National Academy of Engineering and the National Academy of Medicine, entitled “Engineering and Medicine: A Critical Partnership in Technobiology.” Make sure you RSVP for all of these exciting events!

We look forward to sharing all of the success and innovations.

Jean-Pierre Bardet
Dean and Professor
Gulf Coast Universities Team Up to Address Hurricane Resilience

A new multi-institution research center, The Hurricane Resilience Research Institute (HuRRI), will focus on helping the Gulf coast do better at preparing for and mitigating the damage and loss of lives from hurricanes and other severe storms. Housed at the University of Houston (UH), HuRRI draws upon the strengths of its seven participating universities, from flood mitigation and hurricane modeling to public policy.

Improving the Educational Experience of Students at Hispanic-Serving Institutions Across the Country

Engineering educators from Hispanic-Serving Institutions (HSIs) often lack the necessary resources to attend conferences. The University of Miami’s College of Engineering has been awarded a National Science Foundation grant to co-create a series of traveling workshops intended to better engage these educators, and boost participation in STEM education research at HSIs.

RSVP for the 2018 Strategic Research Initiatives Seminar Series
The Journey From Discovery to Commercialization

Suhrud M. Rajguru, an associate professor in the University of Miami College of Engineering’s Department of Biomedical Engineering and Miller School of Medicine’s Department of Otolaryngology, is collaborating with National Center for Advancing Translational Sciences (NCATS) and eight other institutions in developing new resources for the systematic review, prioritization and development of projects with commercial potential, as well as educational tools for researchers, students and staff.

Florida Institute of Consulting Engineers Names Innovation Bridge as Engineering Excellence Awards’ Small Project of 2018

The Florida Institute of Consulting Engineers (FICE)’s Engineering Excellence Awards (EEA) named the UM Innovation Bridge its Small Project of 2018. The award is recognizing the team led by Antonio Nanni, professor and chair of the Department of Civil, Architectural and Environmental Engineering. They contributed to the design of the first concrete bridge on the University of Miami campus entirely reinforced with composite materials instead of steel.
Transportation Efficiency: Changing the Way Payloads Are Shipped

Seokgi Lee, an assistant professor in the Department of Industrial Engineering, is developing an algorithm designed to improve and streamline packing efficiency for companies by reducing overall lead time while also saving money on storage. “Effective transportation management keeps a company’s whole supply chain running smoothly,” Lee says.

Continuing the Search for a Type 1 Diabetes Cure

Replacement of pancreatic islets through transplantation may cure Type 1 diabetes. Alice Tomei, assistant professor in the College of Engineering’s Department of Biomedical Engineering and director of the Islet Immunoengineering Lab at the University of Miami Diabetes Research Institute, and her team were awarded over $2 million to continue their breakthrough research on encapsulation of pancreatic islets.

Biomedical Faculty Member Elected as a Fellow of the American Society of Mechanical Engineers
3D Printing an Electric Guitar: Meet Nathan Furman

Nathan Furman ’20 – a University of Miami electrical engineering and physics major, Foote fellow and member of the Frost School of Music Band of the Hour – has been using the College of Engineering – Johnson & Johnson 3D Printing Center of Excellence Collaborative Laboratory to create an electric guitar using additive manufacturing, more commonly known as 3D printing.

Students Showcase Innovative Research at Composites and Advanced Materials Expo

A group of graduate students and post-doctoral fellows from the University of Miami’s Structures and Material Laboratory showcased their innovative research at the 2017 Composites and Advanced Materials Expo (CAMX), detailing how their advances are changing the world.
Commencement Profile: Sterlie Achille

It’s hard to imagine how Sterlie Achille ’17 could have packed more into her ‘Canes experience, and as she prepares to graduate this month from the College of Engineering, she feels like she’s leaving the campus with so much more than her degree. “I got to do everything I wanted to do!” Achille says.

UHack 2017

On December 2-3, more than 200 students were spread out across the third-floor grand ballroom in the Donna E. Shalala Student Center to participate in UHack 2017, a 24-hour hackathon hosted by the University of Miami’s chapter of IEEE (Institute for Electrical and Electronics Engineers) and ACM (Association for Computing Machinery).

Samantha Mirante Awarded Florida Structural Engineers Association Scholarship

Student Ambassador Profile: Mallory Madfes, BSIE ’18

Student Ambassador Profile: Jennifer Black, BSEnE ’18
Alumnus Story: Matthew Poling, BSASE ’08
Matthew shares two fond memories of his time as a student, including the time he aced his final physics test.

Mary S. Kalbaugh, BSME ’69, and Jack H. Levine, BSCE ’73
Congratulations to Mary S. Kalbaugh, BSME ’69, and Jack H. Levine, BSCE ’73, who served as alumni marshalls in the December commencement undergraduate ceremony. These two dedicated alumni have supported the college, its students and faculty for more than 10 years. Thank you for your generosity.
Alumni Participate in Annual Holiday Toy Drive

In December, members of the CoE alumni community sorted and organized donated toys for the Amigos for Kids 25th Annual Holiday Toy Drive. Amigos for Kids serves the diverse needs of South Florida’s abused, neglected and less-fortunate children and their families, through education, abuse prevention and community involvement. Networking at UM alumni-owned Tank Brewing Company followed.

HealthSnap Solutions

Yenvy Truong, BSBE ’03, serves as CEO of Healthsnap Solutions. The company serves as an example of translating UM research into successful innovative solutions.

Recent College of Engineering Alumni Continue Research Overseas
Gabe Elias, BSME ’10, won a 4th Formula One World Championship as a race car designer for Mercedes-AMG Petronas Motorsport. For the 2017 car, he designed the bulk of the heat-rejection systems, including sidepod radiators, pipes, manifolds and other engine system parts. In 2018, he will be working on the design of the chassis, ducting, bodywork and wings.

Kevin V. Michael, BSIT ’07, is managing partner of South Florida IT services and consulting firm Invizio. His company was the Small Business honoree at the Miami-Dade Beacon Council’s 2017 Beacon Awards.

The American Association of Engineering Societies recently awarded John Hall, PE, BSCE ’74 the 2018 Norm Augustine Award for Outstanding Achievement in Engineering Communications. The award is presented annually to an engineer who has demonstrated the capacity for communicating the excitement and wonder of engineering.

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

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<td>Engineers Week Events</td>
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<td>Feb 20</td>
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<td>CoE Strategic Research Initiatives Seminar Series - Dr. Mihail C. Roco</td>
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<tr>
<td>Feb 21</td>
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<td>2018 Spring Career Expo</td>
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<td>Pi Tau Sigma National Convention Welcome Dinner and Speakers</td>
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<td>Feb 26</td>
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<td>National Academy of Engineering and National Academy of Medicine Regional Symposium</td>
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<td>Mar 05</td>
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