ANOTHER FIRST PLACE BIG BEAM WIN
The Precast/ Prestressed Concrete Institute (PCI) announced that Saint Martin’s University (Lacey, Wash.) won the organization’s Engineering Student Design Competition, also known as the Big Beam Contest. READ MORE

NEW ENGINEERING AND COMPUTER SCIENCE FACULTY
Saint Martin’s University’s Hal and Inge Marcus School of Engineering (HIMSE) added Dan Bahrt; Shelbie Davis; Alex Mezei, Ph.D.; Harold Nelson, Ph.D.; and Corrie Walton-Macaulay, Ph.D., PE, to its faculty this fall. READ MORE
HOPIE LOPEZ RETIRES
After more than thirty years of service to Saint Martin’s University, Mrs. Hopie Lopez retired this summer. She worked at Joint Base Lewis-McChord and as the executive assistant for the Hal and Inge Marcus School of Engineering. She was greatly beloved by students for her generous hospitality, listening with the ear of her heart, and respect for staff, faculty, and students. Several farewell events were held over the spring and summer to recognize her many contributions.

TAM LÉGER JOINS STAFF
Ms. Tam Léger was hired to be the new Executive Assistant to the Dean of the School of Engineering. She started in May, assisting the Dean and the department until Mrs. Hopie Lopez’s official retirement in July 2018. Tam is no stranger to Saint Martin’s having worked at our JBLM campus and most recently as administrative assistant in the President-Provost Office. READ MORE

DR. RICO PICONE TEACHES IN CHINA
Per Dr. Picone, professor of Mechanical Engineering, “My students in the Statics course, the Engineering and English faculty, and the staff of the International Cooperation and Exchange Center (ICEC) at North China Institute of Aerospace Engineering (NCIAE) made my three week visit wonderful. It was my first visit to China—but I don’t think it’ll be my last!” READ MORE
CIRCLE K INTERNATIONAL AWARDS
Circle K International, the world’s largest student-led collegiate service organization, presented their annual awards at the CKIx Awards and Farewell Session at CKIx18 in Chicago on July 7, 2018. Saint Martin’s University received six awards at the event. Khalid Altamimi (ME) received New Member of the Year. Mohammed Alharbi (CE) was awarded Distinguished Lieutenant Governor of the Year and Second Place in the Oratorical Contest. Saifaldeen Alsarhani (ME) also attended the event, representing SMU in its First Place (Silver Division) Club Achievement award. READ MORE

FLIGHT TEST ENGINEER SPEAKER
Our SMU student chapter of ASME hosted Ian C. Bell, Honeywell Staff Flight Test Engineer, who spoke on Honeywell’s flight testbed for aircraft engines and other aviation technologies. The event was orchestrated and sponsored by the ASME Puget Sound Section. READ MORE

FACULTY NOTES – NOTED FACULTY
Dr. Matthew Ballard published a paper (Ballard M., Wolf K.T., Nepiyushchikh, Z., Dixon J.B. and Alexeev A. “Probing the effect of morphology on lymphatic valve dynamic function. “Biomechanics and Modeling in Mechanobiology ) and gave two conference presentations. He is on the organizing committee for the APS Division of Fluid Dynamics 2019 annual meeting, which will take place in Seattle in November 2019.

Dr. Floraliza Bornasal published “Conceptual Growth in Engineering Practice” with Shane Brown, PhD, Natasha Perova-Mello, PhD, and Kacey Beddoes, PhD, in the Journal of Engineering Education, April 2018 (Vol. 107). She also is advising the Benedictine Scholars this year.
Dr. Xuguang Chen published a peer-reviewed conference paper: "Redesign of a senior software engineering course with dual projects", Journal of Computing Sciences in Colleges: Volume 33 Issue 1, October 2017. He also received a grant and training program from the Center for Parallel and Distributed Computing Curriculum Development and Educational Resources (CDER): PDC Curriculum Early Adopter Grant and Summer Training Program, July 2018.

Dr. Jae Chung submitted a paper “Critical success factors using the relative importance index method for public-private partnerships infrastructure development in US” to Engineering, Construction, and Architectural Management. Ho continues to serve as a member of the Transportation Research Board.

Ms. Shelbie Davis published “Computational Fluid Dynamic Simulation of Incylinder Pressures to Validate High-range VCR,” with Dr. Frank Washko, in the SAE International Journal of Commercial Vehicles (JCV2018-0014).

Dr. Shawn Duan authored two papers, “An Integrated Parallelizable Algorithm for Computer Motion Simulation of Large-Sized Bio-Molecular Structures” 2017 ASME Proceedings and “Multibody Dynamics Approaches for Study on Good and Bad Whole-Body Vibrations”, Accepted by ASME 2018 IMECE Proceedings. He also serves as Editor of the International Journal of Hydromechatronics Engineering.

Dr. Daniel Einstein has two articles under review: “Effect of Edge-to-Edge Repair on Chordal Strain: Fluid-Structure Interaction Simulations” and “Fluid-Structure Interaction Analysis of Subject-Specific Mitral Valve Regurgitation Treatment with an Intravalvular Spacer.” He continues as a reviewer for six scholarly journals.

Dr. Isaac Jung continued his NSF grant work for Engineering Projects in Community Services. He also represented SMU at the national level in Engineers Without Borders.

Dr. Mario Guimaraes published a peer-reviewed conference paper: “Adding Advanced Features to an Existing DBMS”, November 2017, Birmingham, AL. He presented a peer-reviewed conference tutorial and had a second accepted. He also developed and taught four summer video game development camps for local youth.

Dr. David Olwell published “Judges’ Commentary: The Southwest States’ Energy Compact” in the UMAP Journal. He was recognized for five years of service on the Engineering Accreditation Commission.
Dr. Rico Picone was awarded a patent: Separative Magnetic Transport in a Magnetic Field Gradient, US Patent US9810758B2 (granted 11 November 2017). He completed work on a grant from WA State Dept. of Natural Resources, which funded three SMU student summer internships.

Dr. Jill Walsh has a half dozen papers under review, many with MCE graduate students. She also advised the PCI Big Beam team that successfully defended its national championship.

Dr. Frank Washko published “Computational Fluid Dynamic Simulation of Incylinder Pressures to Validate High-range VCR,” with Ms. Shelbie Davis, in the SAE International Journal of Commercial Vehicles (JCV2018-0014). He presented two peer-reviewed conference articles, “Preferred Methods for Innovative Concept Generation” and “MIFT Move It Forward Theory: Catastrophic Downtime Production Management”, and has been an active reviewer for scholarly journals and presses.

CALENDAR AND EVENTS

❖ **Saint Martin’s Annual Gala**
  Nov. 3, Saturday
  Marcus Pavilion - 5 pm

❖ **MS in Computer Science Open House**
  Nov. 8, Thursday
  Cebula Hall Room 202 - 6-8 pm.
  Learn more about our newest master’s degree program!

❖ **Saint Martin’s Day / Veterans Day Observed**
  Nov. 12, Monday. UNIVERSITY CLOSED

❖ **Thanksgiving Recess and Holiday**
  Nov. 21, Wednesday. NO CLASSES/ UNIVERSITY OPEN
  Nov. 22-23, Thursday-Friday. UNIVERSITY CLOSED

❖ **FIRST Tech Challenge Interdistrict Tournament**
  December 15, Saturday
  SMU NWCC & Pavilion – 9 am-4 pm. Watch exciting head-to-head robotic challenges from teen teams! FREE admission!

ALUMNI ACHIEVEMENTS

Our alumni hold a special place in our minds and hearts! We want to hear from you and recognize your achievements in life and in your careers! Please send us your story and/or a photo with a caption. Email your items to us at: **SMUHIMSEAlumni@stmartin.edu**

We look forward to recognizing you in a future **Cornerstone** issue!
DEAN’S CORNER

I’m very proud of our Big Beam team and their advisor – Dr. Jill Walsh – for successfully defending their national championship. It is such a great testimonial to the strength of our students, programs, and faculty in civil engineering!

We are excited by the imminent arrival this spring of a large cohort of Saudi students transferring to us from Canadian universities. We are working diligently to welcome them and position them for success.

HIMSE and SMU are partnering with several community agencies to create a MakerSpace on campus. This will be part of a larger network for innovation in Lacey. This network will provide our graduates with a place to turn their senior designs into small businesses! Drs. Picone and Washko are taking a leadership role with their Tekne Center for Design.

We have a new “canoe grove” on campus, where the concrete canoes are mounted and displayed along the sidewalk on the way to Panowicz Foundry. Kudos to Ms. Sarah Howsden and her classmates (under the watchful eye of Dr. Walsh) for the design and construction of these memorials! A dedication ceremony is planned for November 8th from 4:30-6:00 p.m.

As of the ten-day count, we had 373 engineering and computer science students. This is up 50% in the last four years!

All of these successes are made possible by the support of the engineering alumni and community, who are now seeing the return on the investments made in the Engineering Initiative of the last decade. Thank you for your continuing support!

And if you have suggestions to improve this newsletter or story ideas, please send them along to: engineering@stmartin.edu.

David H. Olwell, Ph.D., Dean
Hal & Inge Marcus School of Engineering

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