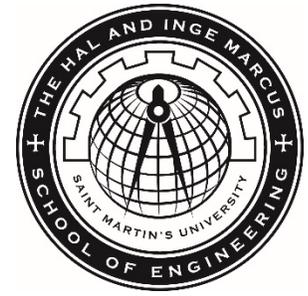




Saint Martin's
UNIVERSITY



CORNERSTONE

The Hal and Inge Marcus School of Engineering

Spring 2021- February



GOODBYE 2020! HELLO 2021!

2020 was a tough year with many changes and adjustments in our lives and how we work, teach, and learn! We applaud each of you in our HIMSE community for your support and grace in dealing with everything 2020 threw at us!

Here we are in Spring 2021 semester continuing to offer a modified face-to-face schedule of classes. We are hopeful that with the new vaccine, rapid testing, and everyone continuing to wear masks and social distance, we'll see a slow return to our tradition operations and normal life experiences. Spring offers new beginnings and hope for the best of life!

Remember that Spring break was cancelled to prevent possible virus contamination or transmittal back to campus after the break. In lieu of the spring break, there will be a 3-day break March 6-8 (Sat-Mon). Another traditional break will be Apr 2-5 for Good Friday/Easter Monday.



Saint Martin's Year of Transformation continues as well, working diligently to be even more inclusive and supportive of the beautiful diversity we are blessed with in our community of students, faculty, and staff. The University has coordinated many trainings, seminars, and video experiences to help build community awareness and action in this endeavor.

* This year's **69th Annual Engineering Banquet: A Feast for the Mind** will be a Zoom virtual event on Friday, February 26 starting at 5:30 pm. Please **register at: <https://advancement.stmartin.edu/register/engineeringbanquet21>**.

After registration, you should receive the Zoom link. We have no ticket fees for this year's event, but are gratefully accepting any donations towards our EAB Engineering Scholarship Fund, providing students with special financial needs the ability to continue their SMU-HIMSE education. Donations can be made when you register for the event. *

We are thankful for the amazing support of the full Saint Martin's team and HIMSE internal and external communities to ensure health, safety, security, and justice for everyone as the 2020-21 academic year moves into its final months. We wish everyone a safe, healthy, and prosperous 2021!

MILITARY RECOGNITION EVENT

On February 10, Saint Martin's Veterans' Center and Campus Life Office hosted their first annual Military-Affiliated Leadership Awards ceremony. This virtual event recognized outstanding staff, faculty, and students in six categories:

- Leadership in Living the SMU Mission: **Gary Choi** (BS-Computer Science)
- Most Inspiring Military-Affiliated Student of the Year: **Lauren Blaszyk** (BS-Nursing)
- Leadership through Mentoring: **Jorge Castillon-Sierra** (BA-Business)
- Military-Affiliated Academic Achievement: **Craig Fredrickson** (BA-Psychology) / **Kae Starr** (PhD-Leadership)
- Outstanding Staff Member of the Year: **Amanda Rendon** (SMU-JBLM Program Coordinator/Advisor)
- Outstanding Faculty Member of the Year: **Dr. David Olwell** (Dean, Hal & Inge Marcus School of Engineering)

The event also featured Distinguished Alumni Awardees and Veterans, Maj. Gen. James Johnson MBA '96 and LTC Rebecca Oldham '92. Over 30 nominations were received from the SMU community for these awards. HIMSE offers our congratulations to all the nominees and those receiving well-deserved awards this year!

CIVIL ENGINEERING PROFESSIONALS MENTOR OUR STUDENTS

In a typical academic year, Cebula Hall and Panowicz Foundry for Innovation and the E.L. Wiegand Laboratories would be humming with activity as students, alumni, and other mentors engage our students through the civil engineering senior design projects. This year, things were a little different due to pandemic constraints. Instead of in-person lunches and meetings, Design Mentor Days in November 2020 and February 2021, along with Project Presentations in December 2020, were held remotely.

Despite the change in modality, members of the engineering community showed continued support to our students. This year's project sponsors include KPFF, Skillings Inc. Mason County Public Works, Washington Department of Fish and Wildlife, and MC-Squared. Further, design mentors included practicing engineers from local agencies, state departments, and local consulting firms, many of whom are SMU alumni:

- Mark Steepy, **Blake Lord** ('16), **Frances Constantino** ('20), **Jessica Martin** ('20) of KPFF;
- Ian Lee and **Kazuma Lane** ('19) of Skillings Inc.;
- **Jesse San Nicolas** ('18) of Mason County Public Works;
- **Jim Farley** ('06 and HIMSE faculty), **Ryan Egolf** ('17) of MC-Squared;
- **Padraic Smith** ('95) of Washington Department of Fish and Wildlife;
- **Ty Johnson** ('01) of HDR Inc.;
- **Tim Horton** ('04) of HNTB;
- **Tyler Davis** ('16) of KPG;
- **Jessica Soward** ('04) of Sargent Engineers;
- **Mallory Dobbs** ('16), **Rikki Martinez** ('19), **Sarah Howsden** ('19) of SCJ Alliance;
- **Bill Richardson** ('09), **Keevan Forbes-Kashani** ('19), Becky Conn, Marcus Storvick of Thurston Co. Public Works;
- **Fran Eide** ('83) of City of Olympia;
- Tom Szymoniak of Washington Department of Natural Resources;
- **Doug Howie** of Washington Department of Ecology and HIMSE faculty;
- **Gabriela Virgen** ('19) of Washington Department of Transportation

We are truly grateful for these engineers' willingness to engage in our students' learning experiences, particularly during such a difficult year. We look forward to continue building community between current students, alumni, and other practicing engineers through the design projects. If you'd like to participate in future mentorship events or would like to sponsor future civil engineering design projects, please feel free to contact **Dr. Floraliza Bornasal** (fbornasal@stmartin.edu) and **Dr. Jill Walsh** (jwalsh@stmartin.edu).

[NOTE: For Mechanical Engineering project suggestions/sponsorship, contact **Dr. Shawn Duan** (sduan@stmartin.edu). For Computer Science/Information Technology projects, contact **Dr. Harold Nelson** (hnelson@stmartin.edu).]

FALL 2020 DEAN'S LIST

Congratulations to those who are on the Dean's List for the Hal and Inge Marcus School of Engineering from Fall 2020 semester! Students with a GPA of at least 3.5, who took a full-time class load and did not drop any classes, are placed on the Dean's List. Students in **red** earned a 4.0 GPA for the semester.

We are proud of all of our HIMSE students and their accomplishments and encourage you all to keep up the good work and put in your best effort on all you do!

Andrew Alfred
Abdulrahman Aljadani
Hussain Alsadiq
Jason Anderson
Francisca Anunobi

Braden Baker

Eli Baker
Jay Bang
Andrew Boyd
Annika Briggs

Sydney Brown

Mary Brownell
Uriah Camacho
Seth Carl
German Chavez

Gary Choi

Patrick Conerty

Nikolas Cook
Adam Crain
Emily Crawford
Julia Cutright
Miguel De La Melena
Kyle Delos Santos
Sonia Diaz Guzman

Lee Duan
Eli Eldridge
Brandon Essary
Caden Fernquist
Jaqueline Freeman

Alex Garate'

Raul Garza

Joshua Gilbert

Christian Gordon

Christopher Hatakenaka-Gibbs

Devon Henspeter

Ariful Islam

Anna Johnson

Ian Kisamore

Noah Larson

Nathan Martinez

John McCarthy

Patricia McGarrah

Brooks McKinney

Alexandria Miller

Benjamin Miller

Matthew Mukai

Zachary Musgrove

Bryant Nakagawa

Lawrence Newcomer

Samuel Nilsen

Emery Norwood

Kai Andre Ortega

Garrett Orwig

John Rambo

Daniel Rivera

Nathan Robinson

Realani Rulona

Andrew Schulz

Ranele Lyn Serrano

Morgan Smith

Anna Sotelo

Edward Suppes

Benjamin Tan

Megan Taylor

Alice Thompson

Brendan Tran

Elizandrea Tuato'o

Paul Wallace

Elijah Whitesell

Jonathan Wiens

Colton Winters

Madeline Wolff

Mitchell Wommack

Ethan Worden

Dakota Wright

REMEMBERING CAMERON CAMPBELL

It's been a year since unexpected death of one of our student alumni, **Cameron Campbell** ('19 BSME). We recently received this tribute and photo from his mother and wanted to share it with our HIMSE community. It reads as follows:

"With broken hearts, we announce that Cameron Scott Deforest Campbell, our most beloved son, passed unexpectedly January 20, 2020, in Lacey Washington, at the age of 25. He was born April 25, 1994 in Lacey, Washington to Shari and Scott Campbell.

He graduated Rainier High School as class valedictorian in 2012, where he was a member of honor society, the track and field team, the cross-country team, and the knowledge bowl team. Cameron completed and earned his BSME from St. Martin's University in 2019, where he also was a student ambassador.

Those who knew Cameron will miss him always. Smart, and funny, he had a kind and loving heart and cared about those around him. Cameron had such tenacity; he was an inspiration to all as he worked very hard to overcome many health-related adversities throughout his life. He loved reading, cooking, gardening, cats, camping, collecting rocks, putting together puzzles, listening to music, being with his family, and pizza. He worked hard and loved to help people, always being the first to arrive and the last to leave. Cameron had a heart of gold.

Cameron is survived by his parents Scott and Shari Campbell of Yelm, Washington. Cameron is greatly loved and missed deeply."

A Celebration of Life will be planned and shared at a later (post-COVID) date.



FACULTY NOTES - NOTED FACULTY



Dr. Rico Picone just submitted a pre-print for a paper he's presenting this summer at the Human-Computer Interaction Conference 2021. It features six significant new methodological developments of the previously-presented "metastimuli architecture" for human learning through machine learning. Also listed on the paper are Dane Webb (BSME '19, MSME), Jotham Lentz (BSME '15, MME '18) and Finbarr Obierufu (Visiting Research Assistant) [READ MORE](#)

Dr. Jill Walsh was the subject matter expert for *NCHRP 20-68D Domestic Scan 19-01 Leading Practices for Detailing Bridge Ends and Approach Pavements to Limit Distress and Deterioration*. The scan consisted of reps from 12 state agencies, sharing details and lessons learned. The final report presents best practices for bridge end details used by state departments of transportation across the country. **Bijan Khaleghi**, HIMSE adjunct faculty, was also one of the scan members. [Photo -L to R: **Bijan Khaleghi** (Washington State DOT), Romeo Garcia (FHWA), Jason DeRuyver (Michigan DOT), Adam Lancaster (Louisiana DOTD), **Jill Walsh** (Saint Martin's University), Devan Eaton (Maine DOT), Ted A. Kniazewycz (Tennessee DOT)] [READ MORE](#)



Leslie Washko attended a two-day online conference in late 2020 offered by Mind the Product, with engineers, and product designers/managers from all over the world, regarding the challenges of engineering design, new product development, and product management. According to Ms. Washko, "I was especially impressed with the discussions about "ethical product development" as that is something I have been considering adding to my Design and New Products Development class.

I also learned of an exciting new program that is set up with engineering students in global teams within a project framework to give them the experience of working on a project with a diverse cultural group of 'engineers in training'. This program encourages the students to manage differences (cultural, communication, political, regulatory, etc.) to learn and have practical experience with a global team. The initial research sample was small, but the results were very promising and positive and may provide a platform for other engineering educators to build upon." [READ MORE](#)



GET TO KNOW THE ENGINEERING ADVISORY BOARD

Brian Ziegler has served as the Chair of the Hal and Inge Marcus School of Engineering’s advisory board for almost 10 years. Brian is a valedictorian graduate of Saint Martin’s College (now University) Olympia with a BSCE. He has over 43 years of experience in the planning, financing, design, construction, and maintenance of public works facilities. His most notable state accomplishments include design and reconstruction of the Olympia and Tacoma interstate freeway systems, creation of the state’s high-speed passenger rail program, and leadership of the design and environmental process for the state’s first public-private transportation project - the Tacoma Narrows Bridge. At the local level, Brian led the Pierce County Public Works department for 13 years, completing a variety of challenging and unique public works facilities, including the

Chambers Bay Golf Course, which hosted the U.S. Amateur and U.S. Open Championships. In 2010, Brian was awarded one of the Top Ten Leaders of the Year by the American Public Works Association (APWA).

Brian is a licensed professional civil engineer, a former member of the City of Olympia Planning Commission, and a licensed private pilot. In addition to his work with our Engineering Advisory board, he is also a board member of the South Puget Sound MESA program, which encourages women and minorities to undertake science, technology, engineering, and math (STEM) careers. Brian and his wife Julie reside in Olympia and have three grown children and four beautiful grandchildren. Thanks, Brian, for your continuing support of HIMSE’s students, faculty, and staff!

OUR ALUMNI WHAT ARE THEY DOING NOW?



Evan Tran – BSME ’19: I’m a Product Manufacturing Supervisor at OVAL International in Hoquiam, Washington. I manage and work on Research and Development projects. These projects consist of product improvements, special topics and product collaborations. I also do the typical design and draft work in my day to day tasks. At work I like to extend my reach out in multiple directions. I am always looking for other ways I can contribute to various projects. The biggest thing I’ve learned is being versatile with various skill sets. Diversify your toolbox and always seek out new skills or programs that can be utilized. It’s never too late or too early to learn new things!

Edgar (EJ) Casitas – BSIT ’20: At work I provide general IT services for dental offices in my company’s dental group. This includes general software and hardware troubleshooting, configuration and maintenance of our network and servers, and front-end web development. My advice to current students is to not feel pressured to have to know everything before you graduate. SMU will give you a great foundation, but you will learn lots on the job.



Ben Wadowski – BSME ’20: I work as a Project Engineer at Auburn Mechanical. I’ve been here for almost 6 months now and have learned more than I can imagine. My responsibilities entail:



- Monitoring project progress, coordinating activities and resolving problems that may arise on the jobsite.
- Purchasing and tracking of large equipment & miscellaneous things that the field team may need.
- Working with the general contractor to ensure we are staying on schedule and abiding by codes and standards.
- And many more.

Each day is a surprise/stressful event, but it is all about working efficiently with the team to get the job done and move on to the next task. My advice for life after college is to take a chance and test the waters. I knew nothing about HVAC and Plumbing, but, thankfully, I had the education to help me learn and dissect those systems. To current students, continue to work hard and push through each class, use your resources and ask questions frequently. Auburn Mechanical is currently home to multiple Saint Martin’s ME graduates: Randy Stabnow, Engineering Manager; William Von Dolln, Estimator; and Akara Hay, BIM Technician.



John Pham – BSCE '19: I am a Resident Engineer (RE) for the Federal Aviation Administration (FAA), based out of Des Moines, Washington. I started this job on July 22, 2019, two months after graduating from SMU. Being part of the FAA's Northwest Mountain Region's Terminal/Surveillance/Weather group, I have the opportunity to travel to various projects in different states to help provide construction/project oversight. As an RE, I am required to have an understanding of electrical, mechanical and civil engineering. My most recent project was out in Denver, Colorado, helping with the construction oversight of the Denver Air Traffic Control Tower remodel. This project required a lot of electrical and mechanical work, e.g. installing/wiring light fixtures, air handler units, etc., so it was great

opportunity for me (a civil engineer) to learn about the other engineering practices. My advice to those still in school--network as much as you can and keep an open mind. In my experience, all of the best jobs I've ever worked have come through my ability to network and build connections with those I meet. I always kept an open mind about opportunities, and would try to make the most out of an opportunity (even if it wasn't the most pleasant experience).

Michael (Aaron) Michael – BSME '18, MEM '20: I'm a Site Project Manager for Bently Nevada, an engineering company specializing in vibration monitoring for rotating machinery. I manage the installation of vibration monitoring and automatic shutdown equipment for a bunch of industries, but mostly at refineries and power plants. I also set up software to analyze historical vibration data for machine diagnostics. My advice to students is regarding potential employers – don't just believe that a company will have your best interests or be efficiently operated because they're Fortune 500. Do your research to make the best decision for your career!

ALUMNI- PLEASE KEEP IN TOUCH!

Please email us about your latest news – new positions, promotions, speaking engagements, personal milestones, etc.! We want to let your fellow alumni know all about it and share your achievements with our students, faculty, and staff! Please email us at: SMUHIMSEAlumni@stmartin.edu. You can also email me directly at tleger@stmartin.edu.

CALENDAR AND EVENTS

- ❖ Feb 24 (W) [Virtual Career Fair](#) – click for Handshake access
- ❖ Feb 26 (F) School of Engineering Virtual 'Banquet'
- ❖ Feb 26 (F) Deadline to Withdraw for 08/10 terms
- ❖ **Mar 8 (M)** **Mid-semester break (one day)**
- ❖ Mar 14 (Su) Daylight Savings (spring forward 1 hr!)
- ❖ Mar 15 (M) Terms 09/11 begin
- ❖ Mar 22 (M) Add/Drop/Attendance Deadline for 09/11
- ❖ Mar 22-25 Advising Days – meet with advisors
- ❖ **Mar 26 (F)** **Advising Day (no classes)**
- ❖ **Apr 2 (F)** **Good Friday (campus closed)**
- ❖ **Apr 4 (Su)** **Easter Sunday**
- ❖ **Apr 5 (M)** **Easter Monday (campus closed)**
- ❖ Apr 6 (Tu) Priority registration-Summer/Fall 2021 starts
- ❖ Apr 8 (Th) Final Sr Design Project Videos due
- ❖ Apr 23 (F) Final Sr Design Project Posters due
- ❖ Apr 26-30 Study Week (**no classes on Fri, April 30**)
- ❖ Apr 27 (Tu) Honors Convocation/Scholars Day
- ❖ Apr 29 (Th) 2021 Senior Commencement Fair
- ❖ May 1 (Sa) 2020 Virtual Commencement
- ❖ May 3-6 Final Exams
- ❖ May 7 (F) Baccalaureate Mass and Masters Hooding Ceremony
- ❖ May 7 (F) MSSA Graduation
- ❖ May 7 (F) Order of the Engineer and Pledge of the Computing Professional events
- ❖ May 8 (Sa) 2021 Commencement/ Spring 2021 Conferral Date





DEAN'S CORNER

As we enter our fourth semester and second year under COVID restrictions, I would like to salute our faculty in the Hal and Inge Marcus School of Engineering. They have been working so hard to address our many and various student needs. Their commitment to student success and willingness to engage with students wherever they are have made it possible for our students to continue their education.

Most of our students have thrived. They too are working very hard through this pandemic. We continue to work with those severely affected by the pandemic economically and academically. The generous support of the Abbey and our other donors has been so helpful in reducing some of the financial stress for students.

We continue to earn accolades for being a transformative university. As an example, our MSSA program will graduate its 750th student this May!

We are relatively fortunate compared to other private schools in the state. We have not had layoffs or salary reductions, although we have had many severe belt-tightening measures and a painful hiring freeze.

I meet regularly on Zoom with the other deans of Catholic Engineering Schools in the nation, and again we are relatively fortunate compared to many of them. We are very blessed.

Next January begins our ABET reaccreditation cycle. We plan to submit the computer science and information technology programs (BSCS and BSIT) for initial accreditation. We had a very clean visit in 2016-17, and we hope for a similar outcome.

Our engineering week activities are scaled back this year. In lieu of an open house for high school students, we shared some video links for student designs and other resources. Our banquet will be virtual, short, and free this year, and I encourage you to sign-up on the link on the first page of the newsletter.

As always, I thank our tireless newsletter editor, Tam Léger, for putting this wonderful edition out!

Best wishes,

Dave

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



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