MEET SHAHLAA AL WAKEEL
Dr. Shahlaa Al Wakeel is our newest full-time instructor in the Mechanical Engineering department, starting in Fall 2019. She comes to us from a teaching/research assignment at the University of Colorado-Boulder, where she lectured on both undergraduate and graduate level engineering courses. Prior to that she taught undergraduate engineering courses at Metropolitan State University of Denver. Dr. Al Wakeel received her doctorate degree from UC-Boulder in 2017 with her thesis on “Theoretical and Experimental Investigation of Matrix Inclusions on the Fracture Toughness of Composite Material.” We are happy to welcome her to the HIMSE faculty! READ MORE

NCIAE VISITING FACULTY
Saint Martin’s is delighted to host three visiting faculty this fall from the North China Institute of Aerospace Engineering (NCIAE). Dr. Yonghui Li, Dr. Xu Ji, and Mr. Boya Tian spent the last several weeks participating in SMU social and academic life. At NCIAE, Dr. Li teaches Optical Engineering, Dr. Ji teaches Mechanical Engineering, and Mr. Tian teaches Foreign and Applied Linguistics. SMU also welcomed our first student from NCIAE, Hao Hu, who is now in our Saint Martin’s ESL program, preparing to join our HIMSE student body. READ MORE
The Hal and Inge Marcus School of Engineering Speaker Series proudly invites you to attend:

Alexander Weeks speaking on "Securing the Data of Washington State's Largest Department: A Challenging Trust"

Wednesday, November 13, 2019
Saint Martin's University
Cebula Hall 3rd Floor Event Space
5:30 - 7:00 p.m.

Alexander Weeks has been the Chief Information Security Officer of Washington's Department of Social and Health Services since January 2018. Some of his responsibilities include oversight of incident response, service requests, corrective action plans, security design reviews, cloud solution reviews, and disaster recovery procedures. Washington's DSHS employs 16,000 people in 145 locations, and serves 2.5 million residents. Prior to taking on this position, Mr. Weeks served in the US Army from 1988-2018, with overseas tours in Europe, Turkey, and Afghanistan. He finished his military career honorably discharged as a Senior Signal (Cybersecurity) Warrant Officer after almost 30 years of service.

GLASS GRID WALLS TO GET AN UPGRADE
HIMSE students and faculty often use the glass grid-marked walls on the first and second floors of Cebula Hall to pose and solve complex problems and assist in learning and teaching engineering concepts.

It can, however, be difficult to see the writing and drawing on the glass, so, by the end of December, we plan to put an opaque material on the inside of these glass walls on both floors to help with readability.

Photo provided by: Dr. Rico Picone (Thanks!)
On October 23rd, Ms. Shelbie Davis, HIMSE Laboratory Instructor, and Dr. Matthew Ballard, ME professor, accompanied 75 engineering and computer science students to the 2019 UW Science and Engineering Career Fair at the Husky Student Union Building in Seattle. The purpose of this trip was to expose our SMU students to a high volume of job opportunities and technical internships. We first took students to the 2016 event, and since then, the number of SMU students going to the career fair has increased over FIVE times! Over 95 potential employers were represented at the fair, which was sponsored by Science & Engineering Business Association (SEBA).

Added to the event this year was the inclusion of students from our new ME 100 course, which gives an introduction of mechanical engineering and engineering design to students new to HIMSE. Introducing new students to résumé development and career fairs is critical to future success.

Thanks to Shelbie Davis and Dr. Matt Ballard for leading this trip and to Ann Adams and the SMU Career Center for funding the bus to get them all there! READ MORE

Another canoe has been added to the Concrete Canoe Grove exhibit just south of Panowicz Foundry. ‘Old MacDonald’ from 2017-2018 has taken its place of honor with the others set and dedicated last year. Also new to the grove displays are brass plaques on each pedestal showing the canoe name, construction year, and other details. This year’s installation was led by students Frances Constantino and Patrick Ross. The grove is an innovative and artistic way to memorialize the students’ work for this annual competition.
LOCAL ENGINEERS PROVIDE PROJECT MENTORSHIP
On October 17th, the Panowicz Foundry Senior Design Room was abuzz with voices from current students, alumni, and other mentors of the civil engineering senior design projects. The group was actively engaged in conversations about the seniors’ projects for the year, sponsored by the City of Bremerton and KPFF. This year’s projects include a mock redesign of an SMU campus overflow parking lot, structural redesign of a Bremerton bridge, ADA and connectivity design for Bremerton pedestrians and bicyclists, a roundabout design, WSDOT facility civil/site design, and a roadway redesign adjacent to the WSDOT facility.

Design mentors, project sponsors, and guest speakers for the civil engineering senior design projects include practicing engineers from local agencies and companies, with over 75% of them being Saint Martin’s alumni:
- **Christopher Dimmit ’10**, Shane Weber, and Andrea Archer-Parsons of City of Bremerton
- **Mark Steepy and Blake Lord ’16** of KPFF
- **Tim Horton ’04**, Cleo Pineda ‘18, Ian Lee, and David Hall of Skillings Connolly
- **Jim Farley ’06** and **Jake Gustafson ’19** of MC Squared Inc.
- **Dwayne Walker ’16** of the City of Enumclaw
- **Mallory Dobbs ’16**, Sam Dunn ’16, Maddie Knecht ‘17, Sarah Howsden ’19, and **Charlie Severs ’10** of SCJ Alliance
- **Doug Howie** of WA Department of Ecology and SMU adjunct faculty
- **Mark Mead** of Mead Engineering Resources
- **Kirby Neale ‘16** of David Evans and Associates
- **Fran Eide ’83** of City of Olympia
- **Tom Szymoniak** of WA Department of Natural Resources
- **Lance Talmadge ‘16** of Hatton Godat and Pantier
- **Bill Richardson ’09**, **David Chain ‘14**, Brian Meier, **Matt Unzelman ’05**, and **Steve Johnson (SMU Alum)** of Thurston County Public Works
- **Eric Ott ’17** of the City of Renton

Looking around the room during the Design Mentor event, as well as continued involvement of project sponsors and guest speakers for the design class, it becomes apparent that the importance of mentorship lives on with SMU students even after they graduate. As faculty, we are truly grateful for these engineers’ willingness to participate in students’ learning experiences. 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: If you are interested in mentoring in or sponsoring mechanical engineering or computer science design projects, please contact Ms. Tam Léger (tleger@stmartin.edu).]
CONGRATULATIONS TO STUDENT ATHLETES

Seven Saint Martin’s Saints were selected to the 2019 GNAC Soccer All-Academic Team on October 17, 2019. We congratulate all of these great student-athletes, and offer a big rousing shout-out to one of our own, Jason Fairhurst, a junior mechanical engineering major, joining this elite team for his second time with a 3.24 GPA! Great job, Jason! READ MORE

Eight Saints were also named to the GNAC Volleyball All-Academic Team, proving they can get the job done on the court and in the classroom. Congratulations to them all, with a hearty hoorah to Annika Briggs, civil engineering major, for her first-time selection, with a 3.91 GPA! READ MORE

Four Saints were named to the GNAC Cross Country All-Academic, led by two time selections Miguel De LaMelena and Guillaume Tabary. De LaMelena, a junior Mechanical Engineering and Mathematics major from Vancouver, Washington, finished with a 3.59 GPA! Great work, Miguel and congratulations to all those named to the All-Academic team! READ MORE

ASCE CONSTRUCTION INSTITUTE STUDENT DAYS

Hanna Hoffman attended the ASCE Construction Institute Student Days in Arlington, VA, July 19-23. She’s only the second SMU student to attend this annual competition. Tyler Sloan ’19 attended in the summer of 2018. Top engineering students from the U.S. and Puerto Rico are brought together to compete as a team in front of working industry professionals looking for new talent. Teams are presented with a real-world challenge project and required to develop a written and oral construction proposal and bid package, taking all conditions into account, including local laws and regulations, as well as minimized impact to traffic, surrounding residential/commercial areas, and shareholders. Congratulations to Hanna on her selection to compete! READ MORE
**FACULTY NOTES – NOTED FACULTY**

**Dr. Floraliza Bornasal** worked on a project with Skillings Connolly, Inc. (Garfield County Road Safety Improvement Program) that received Honorable Mention for the 2019 National Roadway Safety Awards and was included in the 2019 Noteworthy Practices Guide. The competition, which began in 1999, honors highly successful approaches to improving roadway safety at the state and local level, according to officials. [READ MORE]

On October 8th, **Shelbie Davis**, Lab Manager and Instructor, took students **John Sommer**, **Samuel Nilsen**, and **Jamie Johnson**, on a tour of the Bradken foundry in Tacoma that specializes in highly engineered steel and stainless steel castings for energy, industrial and military markets. **Steve Gear**, VP of Special Projects, provided the tour. Bradken is partnering with our team of students, which also includes **Nathan Robinson**, **John Jones**, and **Elam Borghi**, to manufacture a Bowie knife for the Cast in Steel competition sponsored by the Steel Founders’ Society of America (SFSA). This competition is held in Cleveland, Ohio, in Spring 2020. Each team is required to design a unique Bowie knife to withstand various tests similar to the Forged in Fire series on the History Channel. Currently, the students are in the design process which includes material choice and knife geometry. [READ MORE]

Faculty members, **Drs. Mario Guimaraes, Xuguang Chen and Razvan ‘Alex’ Mezei**, attended the SQLSaturday event on November 2, 2019 in Portland, Oregon. Twenty Saint Martin’s students from our computer science programs (undergrads, MSCS, and MSSA) also attended.

Dr. Guimaraes noted, “We’ve been taking students to this event since Fall 2016. This Saturday was the record!” SQL Saturday is a training event for data professionals and those wanting to learn about SQL Server, Azure SQL Database, and other exciting data advances. [READ MORE]
On Friday October 8th, Matt Torrey, Omar Moreno-Flores, Ali Alhalwachi, and Shelbie Davis (advisor) toured the LOTT Clean Water Alliance in downtown Olympia. L-O-T-T stands for Lacey, Olympia, Tumwater, and Thurston County and is a non-profit formed by those government partners to manage wastewater. Mark Petrie, Environmental Compliance Supervisor, provided the tour of the facility. The students are working on their WSDOT-sponsored senior design project in which they plan to engineer and build a small-scale methane digester to implement at a WSDOT rest area in Eastern Washington. Their design will serve as a proof-of-concept that it is possible to generate enough power to support a rest area. READ MORE

ANOTHER SUCCESSFUL GALA EVENT

On November 2, more than 600 friends and alumni of Saint Martin’s University helped to raise over $1.4 million for student scholarships at the fourteenth annual Gala, the University’s annual signature fundraising event.

Alumnus Ahmadou Seck ’11 spoke at the event about the values he learned at Saint Martin’s prior to moving to Los Angeles to become a producer. His remarks moved guests and raised nearly $645,000 toward the University’s “Feed-a-Mind” scholarship funds. Many HIMSE alumni, Engineering Advisory Board members, faculty, staff, and friends attended this celebration.

Many thanks to Thomas Dawkins, Microsoft Director of Workforce Development & Career-Centered Learning and one of the valued partners of our MSSA program, who sponsored a table at the event. READ MORE
OUR AMAZING ALUMNI
Engineering Alumni Speaker Panel
On October 11, these women engineers came to Saint Martin’s, hosted by our student chapter of the Society of Women Engineers (SWE), to speak to our undergraduate engineering students regarding their own academic and professional experiences as entry level engineers. -

Pictured below left to right--Front row: Cleo Pineda ’18 (EIT, Skillings Connolly, Inc.; Veronica Raub Mauren ’15 (Transportation Engineer, WSDOT); Mallory Dobbs ’16 (Design Engineer, SCJ Alliance); Maddie Knecht ’17 (Design Engineer, SCJ Alliance); and Annabel Warnell ’16 (Project EIT, Landau Associates). Back row: Gabriela Virgen (SWE Treasurer), Catherine Tran (SWE President), and Julianne Thompson (SWE member).

Here are just a few of the words of wisdom shared with our students:

“We’re lucky because the learning never stops--it’s continuous. No matter what age you are, specifications and standards change. Even older engineers continue to learn.” - Cleo Pineda

“College is the environment for you to learn and utilize the resources that you have.” - Mallory Dobbs

“Be confident and trust your technical knowledge and know when to ask for help.” - Annabel Warnell

Many thanks to these amazing alumni for sharing their time and insights with our students!

ALUMNI- WE WANT TO HEAR FROM YOU!
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! Please email us at: SMUHIMSEAlumni@stmartin.edu

CALENDAR AND EVENTS
学术日历和假期
Mon., Nov. 18: Priority SP 2020 registration begins
Wed., Nov 27: Holiday recess (NO CLASSES/OFFICES OPEN)
Thur., Nov. 28-29: Thanksgiving holiday (SMU CLOSED)
Fri., Dec. 6: St. Thomas Aquinas Study Day (NO CLASSES)
Sat., Dec. 14: Final day of Fall 2019 semester
Mon., Dec. 16-Sun., Jan. 12: Winter Break (NO CLASSES)
DEAN'S CORNER

It is another great fall here at Saint Martin's University. Students are excited to learn, faculty are excited to teach, and the campus is filled with the buzz of productive activity. We have another record shattering set of enrollments on campus. Currently we have 454 students in the engineering school: 108 civil engineering students, 129 computer science students (including 43 certificate students in the Microsoft Software and Systems Academy), 26 students in information technology, and 44 graduate students.

We received permission to add another full-time Computer Science instructor to our team starting in January. If you know of a qualified candidate, please let me or Dr. Guimaraes know.

We are recruiting more members, particularly in computer science, to the Engineering and Computer Science Advisory board. Please feel free to recommend a member to me or Mr. Brian Ziegler ‘79, the advisory board chair.

The Lacey MakerSpace (LMS) grand opening was October 16, and over 300 people attended. The LMS is a great addition to our community and especially our university, and discussions are already about extensions and new services. https://belltowersmu.com/2019/10/27/innovation-for-all-lacey-makerspace-hosts-grand-opening/

As we approach Thanksgiving, we have much for which to be thankful. In particular, thank you for your support of engineering and computer science at Saint Martin’s University. We are grateful for the active alumni engagement in our programs. This newsletter is full of the many ways the community is supporting our students and faculty!

Karen and I send our best wishes on behalf of the entire faculty, staff, and student body for a blessed Holiday season for you and yours.

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

Thank you, and with best wishes,

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

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