

**Academy of Electrical and Computer Engineering (AECE)**  
**Minutes of Annual Business Meeting**  
**Thursday, April 19, 2018**

Members Attending:

Eric Aschinger	Greg O'Neill
Michael Basler	James Paunicka
Michael Emanuel	Michael Perry
Alan Erickson	Steven Pflantz
Kelvin Erickson	George Schindler
Vincent Kunderman	Donald Shaw
Leonard Laskowski	David Sizemore
Dennis Leitterman	John Skain
Mike Matthew	George Tomazi
Kevin McEnery	Tom Van Doren
David McNabb	Roger Volk
Derald Morgan	Steve Watkins
Mark Nealon	Ronald Willoughby

The annual meeting of the Academy of Electrical and Computer Engineering was held Thursday, April 19, 2018 and called to order at 8:00 a.m. The meeting was held in the Comfort Suites Conference Center. President David McNabb chaired the meeting.

Dr. Daryl Beetner, Department Chair, welcomed the Academy members. Participant introductions were made.

Dr. Kurt Kosbar reported on behalf of the Scholarship Committee. He reported that the Academy has three endowed scholarships generating funds for three scholarships at a level of \$1,500 each. The operating account was used to provide funds for six scholarships, with five paying \$1,500 each and the other \$4,000. These scholarships are awarded to students who have a combined household income of less than \$40k (as reported on federal student aid form), are making normal progress toward their degree, have a strong GPA, and are an EE or CpE major. The recipients were: Tyler Andrews, Feyd Carr, Nicholas Covert, Rachael Engle, Alyson Jones, Tristan Lindeman, Joseph Piwowarczyk, Chelsea Shaffer, and Jacqueline Walters. Tristan Lindeman received the \$4,000 scholarship awarded from the operating account designated for an incoming freshman.

Dr. Kosbar then reported on the travel awards provided by the Academy. He reported that \$5,000 in student travel was supported through Academy funds. These awards were made to student groups and design teams with the purpose of providing support for students to travel to a conference or design competition. Both undergraduate and graduate students were funded. Groups/teams could receive up to \$1,000 of support. The recipients were: Solar Car Team,

Multicopter Robot Design Team, Formula Electric Car Team, Underwater Robotics Team, IEEE Student Branch, and Telemetry Team.

Dr. Daryl Beetner then provided an update of the department. He reported that overall enrollment for the department was at 717 students (522 undergraduates and 195 graduates). Undergraduate enrollment has been climbing steadily, particularly for Computer Engineering. Graduate enrollment continues to decline. There are many possible reasons for the decline such as: reduced recruitment activities; increased ECE admission standards; and reduced number of international applications to the US all contribute to the decline in numbers. The number of off-campus students dropped slightly this year. Currently we have 47 undergraduate and 33 graduate students off-campus. The department has 30 T/TT faculty and 6 teaching faculty (2 in Springfield). We've lost two faculty positions, but currently have three searches in process.

Dr. Beetner reported on numerous student awards from the last year. They include:

- IEEE/HKN Outstanding Student Award – Katie Brinker
- HKN Outstanding Chapter Award – for the 16<sup>th</sup> time!
- IEEE-USA College Edition “New Faces of Engineering” honor – Katie Brinker
- NASA NSPIRES Graduate Fellowship Recipient – Katie Brinker
- CEC Dean’s PhD Scholars – Ali Foudazi, Atieh Talebzadeh
- American Society for Non-Destructive Testing Graduate Fellowship Recipient – John Gallion
- Selected to give Commencement Speech – Kelcey Yunghan
- Finalists for ANAN CubeSat Antenna Design – Ali Foudazi, Atieh Talebzadeh

Faculty awards and honors included:

- Steve Watkins – IEEE-HKN President
- Steve Watkins – IEEE-USA Jim Watson Student Professional Awareness Achievement Award
- Joe Stanley – Dean’s Educator Scholar
- Theresa Swift – Dean’s Education Scholar
- Ian Ferguson – Fellow of the Royal Society of the Arts
- Mariesa Crow – Book now in Chinese
- Rohit Dua – Faculty Achievement Award
- Jun Fan – Faculty Research Award
- Kristen Donnell – Faculty Service Award
- Joe Stanley – Faculty Teaching Award
- Numerous other outstanding teaching awards and commendations!

He reported that with the Missouri tax revenue continuing to drop we are uncertain how it will impact the University of Missouri System or our budget. We are currently planning for another 8-13% budget cut.

Dr. Beetner provided an update on some of the ongoing initiatives.

They included:

- The department has hired an Advising and Recruiting Specialist.

- Grow our S&T educated graduate distance population.
- Improve S&T ranking.

Dr. Beetner then explained that the campus has changed how humanities/social science electives count. He asked the membership if they could add one course, what would it be? Discussion followed with many suggestions, such as: engineering economics, survey course in metallurgy; more elective (allowing students to choose); what to expect from management; real time systems; security; personnel management; standards and business.

Joseph Piwowarczyk, scholarship recipient, then made a short presentation to the Academy. Joseph is from Florissant, MO. He graduated from Hazelwood Central High School in 2005. He worked as a union carpenter after graduation for 9 years saving his money so he could attend college. He placed an S&T sticker on his hard hat so he could see his end goal every day.

Jason Northern, Development Office, provided a University Advancement update. He reported that ground would be broken in fall for the Advance Materials and Construction Lab. The Kummer Student Design and Experiential Learning Center is within \$60K of reaching their goal for their addition. Schrenk Hall renovations are underway, with the second and third floor update completed and the first and ground floor of the west wing scheduled to be completed this year. The plan is to tear down and rebuild the entire east wing.

He also reported on the restructuring of Corporate Relations and the dissolving of one office.

Members then heard a presentation by the Brain-Computer Interface Controlled Simulation Senior Design Team. Members of the team included: Blaine Allen, Alex Arensmeier, and Stephen Trotnic.

Dean Richard Wlezien, Vice Provost and Dean of the College of Engineering and Computing, provided a college update. He reported that he is striving to grow the stature of the college and the faculty, and increase rankings as evidence of the change. The plan is to:

- Double externally funded research within 5 years
- Implement a coordinated development effort across college to attract major donors
- Graduate half our undergraduates in 4 years and the remainder in 5 years
- Deliver unique undergraduate and graduate programs statewide at an affordable cost

Dr. Robert Woodley (Dr. Bob), a new Assistant Teaching Professor, then presented to the group. Dr. Woodley received his BS, MS and PhD all from UMR. He worked in industry in a number of different positions after school before coming back and accepting his current position. He will be the department's "Advising and Recruiting Specialist", where he will also take on the role of "Senior Design Czar", along with teaching duties and research support.

David McNabb called the business meeting to order by welcoming the new inductees that were present.

George Schindler made a motion to approve the minutes from the April 2017 meeting. Alan Erickson seconded the motion. Motion carried.

Leonard Laskowski explained the Treasurer's reports. George Schindler made a motion to accept the financial reports as prepared. Dennis Leitterman seconded the motion. Motion carried.

John Skain gave a report for the Membership Committee. He reported that six new members would be inducted into the Academy this year and reminded everyone to send in their nominations for next year.

Eric Aschinger then presented the Nominations Committee report. Don Shaw asked for a vote by acclamation for Kevin McEnery and Steve Watkins (3 year term) to fill the two vacant board seats. Dennis Leitterman seconded the motion. Motion carried.

Michael Emanuel gave an overview of the Chancellor's Academy Presidents Forum. Many ideas were brought forward from the various academies.

David McNabb highlighted some of the things the group had accomplished in the last year. Items included:

- Added 6 new members to the Academy.
- Supported students through scholarships: travel funding; finals week snacks; and mentoring events.
- Supported the Department by continued funding of the Lab Endowment and provided input on combined BS/MS program and sophomore seminar.
- Promoted the University by attending the Academy President's Breakfast and funding travel for students to competitions and conferences.

The membership then discussed and agreed by acclamation that all future scholarships would be paid at a rate of \$2k each (instead of \$1,500 as in the past). Leonard Laskowski presented the proposed budget for the 2018-2019 operating year. Discussion followed. Dennis Leitterman made a motion to accept the budget as presented. Roger Volk seconded the motion. Motion carried.

Mr. McNabb reported that the next meeting of the AECE would take place on Thursday, April 19<sup>th</sup>, 2018. Discussion followed about this possibly interfering with the Easter holiday. The decision was made to review the calendar and decide on a different date. The board will notify the membership of the new date.

Tristan Lindeman, scholarship recipient, presented to the group. He was born and raised in Gladstone, MO. He decided to attend Maples Wood Community College after graduation and participate in their HVAC program. After that he decided he wanted to pursue a degree in electrical engineering.

Members of the Missouri S&T Solar Car Team presented a quick overview of how racing works and how their team is structured.

Alan Erickson made a motion to adjourn the meeting at 3:55 p.m. Tom Van Doren seconded the motion. Motion carried.

Minutes submitted by Leonard Laskowski

May 17, 2018

**The next AECE Meeting and Banquet of the Academy of Electrical and Computer Engineering will be Thursday, April 25, 2019. Mark your calendars and plan to attend.**