



General Faculty Meeting Minutes

May 2, 2017

125 Butler-Carlton Hall, 4:00 P.M.

- I. Call-to-Order, Chancellor Cheryl B. Schrader called the meeting of the General Faculty to order at 4:04 P.M.
- II. Chancellor Schrader recognized Professor David Grow for the presentation of a memorial resolution in honor of Roman Dwilewicz. It was moved that the memorial resolution be incorporated in the minutes of the faculty meeting with copies forwarded to family members. (See Attachment A).

Chancellor Schrader recognized Professor Joel Burken for the presentation of a memorial resolution in honor of Tim Philpot. It was moved that the memorial resolution be incorporated in the minutes of the faculty meeting with copies forwarded to family members. (See Attachment B).

Chancellor Schrader recognized Professor Dick Elgin for the presentation of a memorial resolution in honor of Joseph Senne. It was moved that the memorial resolution be incorporated in the minutes of the faculty meeting with copies forwarded to family members. (See Attachment C).

- III. Chancellor Schrader called for approval of the minutes of the December 6, 2016 meeting. The minutes were approved as circulated.
- IV. Chancellor Schrader introduced Deanne Jackson as the Secretary fulfilling the spot vacated by Laura Stoll following her retirement. The Officers of the General Faculty are
Chancellor Cheryl B. Schrader
President of Faculty Senate Thomas Schuman
Secretary Deanne Jackson
Parliamentarian Steven Corns
- V. Unfinished Business – None
- VI. Reports of Standing and Special Committees
 - There was a motion to change the order of the agenda and it was so moved. The elections process for standing and special committees was moved to later in the agenda during the Faculty Senate President report.
- VII. New Business
 - A. Approval of Candidates for Degrees

Motion was made that the names on the previously circulated list of candidates for degrees on May 13, 2017, and two graduate candidates approved at the Graduate Faculty meeting held on May 1, 2017, be approved, subject to successful completion of any remaining degree requirements. The motion was approved.

B. Approval of Posthumous Degree Motions were made to grant posthumous degrees for Valencia McKinney and Renetra Osun. Both motions were approved.

C. Recognition of Faculty Patent Awards

David W. Riggins
Melanie Rose Mormile
Oliver Clifford Sitton
Matthew J. O'Keefe
Delbert E. Day
Mohammad Tayeb Ghasr
Reza Zoughi
Richard K. Brow
Nicolas Leventis
Chariklia Sotiriou-Leventis

D. Campus Faculty Awards

Receiving the 2016 Excellence Award

Mehdi Ferdowsi, Electrical and Computer Engineering
Kelly Liu, Geosciences and Geological and Petroleum Engineering
Joshua Rovey, Mechanical and Aerospace Engineering
Lesley Sneed, Civil, Architectural and Environmental Engineering

Receiving the 2016 Achievement Award

Lorie L. Francis, Arts, Languages, and Philosophy
Merilee A. Krueger, Psychological Science
Honglan Shi, Chemistry
Theresa Swift, Electrical and Computer Engineering
Kelley J. Tate, English and Technical Communications
Terry Wilson, Biological Sciences

Receiving the 2016 Research Award

Mohsen Asle Zaeem, Materials Science and Engineering
Kyle DeMars, Mechanical and Aerospace Engineering
Robert Landers, Mechanical and Aerospace Engineering
Mingzhen Wei, Geosciences and Geological and Petroleum Engineering
Yahong Rosa Zheng, Electrical and Computer Engineering

Receiving the 2016 Service Award

Petra DeWitt, History & Political Science
Stephen Gao, Geosciences and Geological and Petroleum Engineering
Steve E. Watkins, Electrical and Computer Engineering

Receiving the 2016 Teaching Award

Petra DeWitt, History & Political Science
Kelvin Erickson, Electrical and Computer Engineering
Stephen Gao, Geosciences and Geological and Petroleum Engineering
Amber Henslee, Psychological Science
J. Keith Nisbett, Mechanical and Aerospace Engineering
Dev. K. Niyogi, Biological Sciences
Kathleen Sheppard, History and Political Science
J. Greg Story, Physics

E. Chancellor's Report

Chancellor Schrader opened with discussion regarding the budget. Due to the anticipated budget reductions for fiscal year 2018 our campus is addressing our budget shortfalls with three major goals in mind:

1. Protect the academic core to the fullest extent possible
2. Protect our revenue streams
3. Move forward strategically to ensure Missouri S&T's continue success

Next week Walt Branson will be sharing the updated budget draft which takes into account all the input from university leaders. The dates and times of the open forums will be announced once plans are finalized.

At this time we are looking at budget reductions of approximately:

- Less than 2% for colleges and academic units
- 3.0 – 3.5% for the provost's units
- 6.0% for all other units

In keeping with the University of Missouri System president's request, we will start conducting program assessments for both academic and administrative programs.

Chancellor Schrader thanked everyone for their support and well wishes as she heads off to become President of Wright State University. She gave a quick reminder of our accomplishments and our tremendous progress toward our strategic plan goals over the past five years.

Missouri S&T has had significant growth with students, faculty and staff and we have grown our footprint by adding facilities for academic, housing, support and recreation. This includes our Learning Commons, University Promenade, University Commons, Bertlesmeyer Hall, Kennedy Experimental Mine Building, Hasselmann Alumni House, Eco Village and several retail options such as Zatar Mediterranean-style dining, Au Bon Pain and Starbucks.

We continue to move toward our strategic plan goal of adding 100 faculty lines by 2020 of which we have filled 42 and are in the process of hiring 18 more. We will soon reach 60% of our goal.

Doctoral student enrollments have grown by 21% since 2012 primarily due to a significant investment in competitive support packages.

Chancellor Schrader closed stating "that she will never look at St. Patrick's Day the same way again and will always carry with me Miner pride. Once a Miner, always a Miner!"

The floor was opened for questions and none were asked.

F. Faculty Senate President's Report

Election for Representatives to Committees

Professor Tom Schuman conducted the General Faculty elections for four committees: Public Occasions and University-Wide Tenure

Elected to Public Occasions: 3 positions

Lesly Sneed
Jossalyn Larson
Neil Anderson

Elected to University-Wide Tenure: 1 position and 1 alternate

Bill Schonberg (member)
Dave Enke (alternate)

President Tom Schuman gave a report on the Intercampus Faculty Council (IFC) activities. IFC met on April 21 by telepresence and their next meeting is scheduled for May 12. They are working on a white paper for Post tenure review and discussing progress on campus budgeting. The 2017-2018 IFC agenda included planning discussions on NTT faculty workload and bylaws, increasing salary adjustment for faculty promoted to professor, salary adjustments regarding post-tenure review and creating a special designation for outstanding teaching faculty.

They continue to discuss a 'Freedom of Expression' statement, modeled on University of Chicago and other statements. There was a draft already approved by Mizzou Faculty Council which all

campuses have been asked by President Mun Choi to consider adopting. This statement is in an effort to avoid another scenario such as the one that happened at Mizzou. This statement will be circulated to faculty via the allfac-grp including a request for feedback.

IFC is considering policy changes to NTT bylaws. Mizzou has drafted an NTT policy also to be circulated via the allfac-grp with a request for feedback.

There is an ongoing audit of UM System HR benefits recipients. This includes the re-submission of sensitive documents which HR has stated should not be necessary however they do encourage employees to keep records current. The audit to be released stated there is a tentative savings of \$3.8M by the removal of non-eligible beneficiaries. There are still appeals being processed so the numbers could change.

The Board of Curators met at Missouri S&T on April 27-28 and administration hosted the dinner presentation on April 27. Three students presented: Casey Burton presented on P-scan and future methods, Matt Horst presented on millimeter wave detection and Steve Jung presented on bioglass fabric for wound healing. The Engineers without Borders students, Josi Gass and Ashley Longrie, also gave a presentation.

Faculty Senate hosted Friday breakfast which included a presentation by Vice Provost and Dean Brow on examples of industrial collaboration with our Research centers.

During the Board of Curators meeting, Chris Maples was approved as interim chancellor.

The Board of Curators also discussed the state budget issues. The state budget is due to the governor by May 5. This timeline is behind normal schedule. The curators have postponed the decision on tuition increases till after the state budget is released.

President Choi was scheduled to speak at today's General Faculty meeting but that was postponed to June 15. President Choi will present to S&T Faculty Senate and to campus at that time and will discuss UM System changes, and introduce Chris Maples. Tom Schuman also discussed the idea of a transition team.

VIII. Announcements – None

IX. Adjournment – The meeting was adjourned at 5:14 pm.

Deanne Jackson, Secretary

Attachment A
Memorial Resolution

Roman Jan Dwilewicz was born in Mragowo, Poland, on November 6, 1949, the son of Jan Dwilewicz, Ph.D., a professor of literature, and Rozalia (Lewandowska) Dwilewicz. Roman was raised in the towns of Mragowo and Olsztyn in northeastern Poland. In 1966, he enrolled at the University of Warsaw to study mathematics. His classmates included the Iwaniec twins, Henryk and Tadeusz, who would later become outstanding mathematicians at Rutgers and Syracuse Universities, respectively. Roman obtained M.Sc. and Ph.D. degrees in mathematics (*summa cum laude*) in 1971 and 1976, respectively, at Warsaw University. His dissertation, "The uniqueness of systems of analytic families on complex manifolds", was written under the direction of Professor Bogdan Bojarski. In 1985, Roman received the habilitation degree (D.Sc.) in mathematics.

On May 23, 1974, Roman was united in marriage to Anna Samitowska, also a mathematician, and to this union two children were born: Agatha Barbara Dwilewicz and Adam Jan Dwilewicz. Family and friends can attest that Roman was a steady, loving husband and devoted father. In 2012, he was proud to become a citizen of the United States.

Dr. Dwilewicz came to the Department of Mathematics and Statistics at Missouri University of Science and Technology – then the University of Missouri at Rolla – as Associate Professor in 2001 after distinguished academic service at University of Warsaw, University of Montreal, University of Regina, University of Western Ontario, and Texas A&M. He earned tenure at Missouri S&T in 2004 and he was promoted to Professor of Mathematics two years later. In 2008, Roman received the title of "Professor of Mathematical Sciences", awarded personally by Lech Kaczynski, President of Poland. This prestigious title represents the apex of an academic career in Poland. Professor Dwilewicz received the Missouri S&T 2012 Research Award in recognition of his notable scholarship in the area of analytic functions of several complex variables.

During his professional life, Professor Dwilewicz was invited to give lectures at more than 250 universities and conferences on four continents. He published over 60 research articles and books in complex and geometric analysis, analytic number theory, partial differential equations, and algebraic and differential geometry. His work has appeared in such prestigious journals as *Mathematische Annalen* and *Annali Scuola Normale Superiore Pisa*. Two students at Missouri S&T received a Ph.D. under his direction, with one more Ph.D. student very near completion. Additionally, he directed 9 M.Sc. theses and received three Missouri S&T excellence in teaching awards. He was a very active promoter of the mathematical sciences in Poland, returning periodically to Warsaw to conduct courses and workshops to encourage students and young faculty.

Roman had lifelong fascinations with science and travel. The latest issue of *Scientific American* was always available to those who dropped by his office. He was an avid reader and collector of the *National Geographic* magazine. He was a prolific world traveler and was often accompanied by at least one of his two children. He could regale listeners for hours by sharing stories of his travel adventures. Bicycling was his favorite way to relax and he often preferred to bicycle to work rather than drive his car. Roman played the piano and enjoyed listening to opera singers, especially Luciano Pavarotti and Montserrat Caballe.

Roman Jan Dwilewicz passed away with family at his side at the age of 66 after a brief illness at Barnes-Jewish Hospital in St. Louis, Missouri on Friday, July 29, 2016. He is survived by his wife of 42 years, Anna, his son, Adam, of St. Louis, and his daughter, Agatha, of Ottawa, Canada. He will be sorely missed by his family and his many students, colleagues, and friends at the Missouri University of Science and Technology.

We request that this memorial resolution be incorporated into the official minutes of the Missouri S&T General Faculty Meeting of May 2, 2017, and that copies be sent to Prof. Dwilewicz' wife, Anna, his daughter, Agatha, and his son, Adam.

Respectfully submitted,

David Grow

Attachment B
Memorial Resolution

Dr. Timothy Alan Philpot, was born Nov. 25, 1957, in Lexington, Kentucky. He was the only child of Lou Ann Lickliter Philpot and Lawrence Samuel Philpot.

He grew up in Murray, where he played varsity golf and trombone in the Murray High School Tiger marching and jazz bands. Tim met his lifelong love in Murray in 1972 when Jeanette Belle “Ginger” Gilliam, a fellow band member and trumpeter, invited him to a Sadie Hawkins dance. Tim and Ginger quickly became a couple and married on Dec. 23, 1978, the sixth anniversary of their first kiss.

Tim was a National Merit scholar and salutatorian of the Class of 1975. He went on to attend the University of Kentucky, following in his father’s footsteps, where he earned a bachelor of science degree in civil engineering in 1979. After graduating from UK, Tim and Ginger moved to Ithaca, New York, where Tim was offered a full scholarship to pursue a master’s degree in civil engineering at Cornell University. After earning his master of engineering in civil engineering in 1980, Tim spent six years as a structural engineer in the offshore construction industry in New Orleans, Louisiana, London, England, Houston, Texas and Singapore. Tim and Ginger later returned to Murray, where Tim earned tenure as an associate professor at Murray State University after completing his Ph.D. in civil engineering at Purdue University. During these early years, Tim and Ginger started their family with the birth of Madeleine Anabelle in 1984 and Lawrence Samuel “Larkin” Philpot II in 1987.

In 1999, Dr. Philpot and his family moved to Rolla, where he began teaching at Missouri S&T and specializing in engineering mechanics. The author of the best-selling textbook, *Mechanics of Materials: An Integrated Learning System*, and developer of award-winning multimedia educational software packages *MDSolids* and *MecMovies*, Dr. Philpot was respected by students for his ability to make his subject of mechanics of materials accessible. Even though he made an “A” in the course as an undergraduate student, as a young engineer he realized his weakness in understanding key concepts impeded his work in design situations. Thus, the textbook and software programs became his life’s work. He strove to teach “to the mind’s eye . . . which can facilitate the mental visualization that is integral to understanding and solving engineering problems.” He was known nationally and internationally for his book and interactive, multimedia educational software. They have been used by over 41,000 students and adopted at 340 educational institutions — clearly showing his remarkable impact on the education of future engineers.

Dr. Philpot won several awards for his work in developing engineering education software, including the 1998 Premier Award for MDSolids and the 2004 Premier Award for MecMovies. MecMovies was a winner of the 2004 NEEDS Premier Award competition as well as a winner of the 2006 MERLOT Classics and MERLOT Editors' Choice Awards for Exemplary Online Learning Resources. He served as chair of the Mechanics Division of ASEE.

Dr. Philpot was an affiliate professor with the Project Lead The Way (PLTW) program and taught the Principles of Engineering class to high school teachers in the summers for 11 years from 2006 to 2016. Many of the participants were familiar with his MDSolids software, which is used as part of the PLTW curriculum. To have the author teach the class himself was a special experience for the teachers. Tim was a fantastic teacher, patiently and carefully teaching vectors, truss analysis and basic mechanics of materials to high school teachers. He met them at their level and helped them master the concepts.

Tim was a registered professional engineer in Missouri and Kentucky. He was the author of many papers in peer-reviewed publications and funded research grants, and received several awards for teaching excellence including the Tau Beta Pi Outstanding Professor Award. He was proud to be the faculty sponsor of the MS&T Steel Bridge Team. The S&T Steel Bridge Team members organized a tribute and dedicated the 2017 bridge to Dr. Philpot, including integrating memorial plaques into the bridge design itself.

Tim was known known by his family and friends for his discipline, integrity, industriousness, focus, steady and unflappable personality, and selfless service. A quintessential engineer, Tim's introverted nature belied a quick sense of humor. A master of one liners, Tim loved to make others laugh, but perhaps most enjoyed laughing at his own jokes.

Dr. Timothy Alan Philpot, associate professor of civil, architectural and environmental engineering at Missouri S&T, died unexpectedly from a stroke on Jan. 25, 2017., He was 59.

In 2017, he was posthumously awarded the S&T Student Affairs Meritorious Service Award for being an outstanding advisor who voluntarily committed to assisting student organizations with reaching their full potential. He had a tremendous impact on students' lives inside and outside of the classroom.

Tim is survived by his wife, Ginger, of Rolla; his mother, Lou Ann Philpot of Murray, Ky.; daughter and son-in-law, Dr. Madeleine Philpot and Dustin Dunstedter, of Rolla; and son and daughter-in-law, Larkin and Emily Philpot of Pittsburg, Pa. Tim was preceded in death by his father, Lawrence. He was an organ donor whose selflessness saved the lives of many others.

Joel G. Burken

Jeff Thomas

Ralph Flori

Doug Carroll

Nick Libre

Ron Fannin

Attachment C
Memorial Resolution

Dr. Joseph H. Senne Jr., was born in St. Louis on Nov. 9, 1919. With only two school years from Rolla MSM now (M S&T), Joe (1940 to 1942) worked as an assistant construction engineer at the Laclede Christy Clay Product Co. From there he enlisted in the SEABEES (U.S. Naval Construction Battalion) where he spent the next three years as a surveyor in building roads & airstrips on various islands across the West Pacific Ocean. He was on Okinawa at the time the war ended.

Joe spent what little spare time he had building a sextant so he and others could check the route as they headed for another island. His interest in astronomy also prompted him to make a telescope which he made by cutting two 6 inch disk from a ½ inch thick liberty ship porthole. The telescope disk was ground out using spark plug cleaner and then fine ground using finer grades of valve cleaner grit. The polishing was done using a pitch lap (made from roofing tar boiled to give the right consistency) with jewelers rouge. The surface was then silvered. All in all it turned out to be a pretty respectable scope and it did give him a chance to observe objects in the Southern hemisphere. When the moon or some of the brighter planets were out he can remember long lines of SEABEES waiting to get a look through the scope.

One thing that he remembers vividly was when the Mt. Hood ammunition ship blew up at Manus in November 10, 1944 and 369 lives were lost. "I was on top of a hill at the time and saw it all happen" he said. At least 31 ships were damaged or destroyed. At first it was thought that a midget submarine had somehow gotten into the harbor and they had scores of planes in the air immediately. The cause may never be known though it points to improper storage of certain munitions.

After the war he returned to the states on an aircraft carrier which landed in Seattle where he boarded a train to St. Louis and was discharged on January 5, 1946. He then completed his degree in civil engineering at Washington University in St. Louis, Missouri.

Dr. Senne joined the Missouri S&T faculty as an instructor in civil engineering in 1948 and was named assistant professor in 1951. That same year he earned a master's degree in civil engineering from S&T. He spent eight years at Iowa State University, earned his Ph.D. there, then returned to Missouri S&T as professor of civil engineering in 1963. Dr. Senne served as chair of civil engineering from 1965 to 1985. He led the department during the transition from a strong undergraduate program to a department with both research and graduate programs without changing the strength of the undergraduate program. While chair, and with Joe's leadership, the department's Academy of Civil Engineers was founded, 1972. The academy has been copied many times at S&T and at other universities.

In addition to civil engineering, Joe was an avid astronomer. He helped design, and made the astronomical calculations for the Missouri S&T Stonehenge partial replica which was dedicated on the summer solstice in 1984. The project won an award from the National Society of Professional Engineers as one of the top 10 engineering achievements of 1984. "The stones had to be placed precisely to be aligned for observing equinoctial summer and winter solstice sunrises and sunsets, by which ancient Britons kept track of the seasons with the original Stonehenge," he said in 1985.

In the early days of the “space race,” and in collaboration with the Independent Tracking Coordination Program, Joe predicted the time of satellite crossings over Missouri and made them available to news media. He avidly tracked Skylab from its launch in 1973 to its reentry to Earth in 1979.

Realizing a lifelong goal, in 1985 Joe coauthored the “Celestial Observation Handbook and Ephemeris.” The ephemeris, sold to surveyors, was published annually from 1985 until 2008. About 100,000 ephemerides were sold worldwide by the Sokkia Corp. During this period Joe wrote the code for and codeveloped a module which surveyors could use in the HP-41 calculator. The module contained an internal ephemeris, the first of its kind, which revolutionized the way surveyors determined precise direction from celestial observations.

He was a fellow and life member of the American Society of Civil Engineers (ASCE), the American Society for Engineering Education, the Missouri Society of Professional Engineers, and was the chair of the ASCE Advanced Technology Committee and the ASCE Space Shuttle Task Committee.

A member of the Society of Sigma Xi, Chi Epsilon, Tau Beta Pi, Phi Kappa Phi and Outstanding Educators of America, Joe held a bachelor of science degree from Washington University in St. Louis, a master of science degree from Missouri S&T and a Ph.D. from Iowa State University, both in civil engineering.

At age 97, Dr. Joseph H. Senne Jr. Professor emeritus and former chair of civil engineering at Missouri School of Mines and University of Missouri Rolla died Dec. 20, 2016.

Born in St. Louis on Nov. 9, 1919, to Joseph H. Senne Sr. and Lillian Pearl Bock Senne, Joe was the third of four children. He was preceded in death by his parents, a brother John Edmund, sister Celia Lou Senne Kutz, and his beloved wife, Jeanne Sylva Larkin Senne, to whom he was married on April 12, 1946. He is survived by his only daughter, Jill Senne Giesick, her husband, Robert Giesick, and granddaughter, Katie Giesick, as well as his younger sister Susanne (Penny) Tyrrell of St. Petersburg, Florida. After Jeanne’s death in 2008, Joe occupied himself with his hobbies of astronomy, walking and visiting friends. In 2012, he accepted the offer from his daughter and her husband to come and live with them in San Diego.