

AFSE Meeting Minutes
October 25, 2019
UNAPPROVED

*These minutes provide a brief outline of the topics discussed paired with a video [minute:second] reference. Video link: <http://mslgoee.asu.edu/Mediasite/Play/983bb9e376b247079eeeb3b8b52d74391d>
These minutes and the video link may be found on the AFSE Executive Committee's website <https://assembly.engineering.asu.edu/>*

Dean Squires's report on the State of Fulton Engineering in 2019

Fall investment season with state is the time to ask the state for investments. Slides presented today support FSE request of funds from state officials.

FSE is large -- over 4500 degrees granted in 2018-19. This large number gets us attention. First-time freshman retention is on-goal at nearly 90%. [1:40]

Impactful research: over \$115M in expenditures last year; 21% increase in awards [2:20]

Ph.D. program: approximately 1200 Ph.D. students; around 3.5 students per faculty [2:23]

Broader engagement: tracking to achieve 2020 Campaign goal of \$150M [2:55]

Detailed statistics on interdisciplinary structures, academic programs, enrollments and graduates, faculty numbers, career awards, research and innovation, globally connected (Plus Alliance and programs in Vietnam and Pakistan). [3:00]

Producing talent: degrees granted at undergraduate, Master's, and Ph.D. levels; major publication's rankings of FSE. Most talent stays in valley and represents a draw for companies [3:32]

Research enterprise: early stage, translational, and mission-focused impact. Approximately 350 T/TT faculty, 50 research faculty, 100 post docs, 1200 PhD students involved [4:22]

Research highlights: large awards outlined [5:40]

Intellectual property impacts: if FSE were its own university, it would be ranked #26 worldwide with 79 patents. Statistics presented. Companies launched resulting in job creation [6:00]

Annual metrics from Skysong Innovations: inventions, disclosures, licenses, startups, significant deals from FY19 [7:00]

Partnerships: university-industry partnerships [8:35]

Campaign 2020 update: on track to meet goal by December [9:40]

Corporate Engagement: some highlight include Applied Materials (ASU Research Park), SRP (continue relationship; smart cities), Sprint (IoT) [11:15]

The End of the Beginning: number of high school graduates expected go to college is expected to decline. This opens up opportunities to collaborate with struggling small colleges. FSE needs to target a

new demographic of college bounds students. Future of learning is project based. This will also have an impact on faculty hires and retention. Corporate partnerships will be important. [11:30]

Part of the ASU Strategy: launch the Cintana Alliance Network – a global network of universities. This could be a sustainable way to create international alliances. Partner with inStride Workforce Education Platform. Stefanie Lindquist Sr. VP of Global Academic Initiatives. [14:10]

Evolution of the FSE: School 7 The Engineering and Design Institute (TEDI) in London. Announcement in spring. Students enrolled in 2021. This is the global school for international engagement. [15:58]

Faculty Development: “Research-Entrepreneurs” – develop pathways for faculty acquiring r-e mindset. Ann McKenna is driving this at a leadership level. Funnel model for entrepreneurial-professors. [16:48]

FY 2021 budget request proposes a New Economic Initiative Enhancing Arizona’s Competitiveness. Motivations presented. Requesting Arizona Science and Technology Centers (SCTs). Seeking to span several of these with help of state. Model and key functions outlined. Beta SCT is Blockchain (\$600K industry investment and \$500K state investment). ASU’s Workforce Readiness Initiative – grow FSE faculty, establish STCs, development and expansion of education programs. [19:00]

Jit Muthuswamy (Executive Committee Chair)

Introduce the EC, its roll, and report on EC activities. We need to hear from faculty. Please communicate through your EC representative. [25:40]

Dean’s Distinguished Lecture Series: April 2019 Megan Smith spoke. In February 7, 2020 Robert Langer from MIT will speak. Please propose ideas to your EC member.

Dean’s Dissertation Award: Who can be a nominee, nominee package contents, evaluation method. Details of this year’s selection process described. This year’s winners are Christopher Miranda (SBHSE, advisor Barbara Smith) and Anjali Mulchandani (SSEBE, advisor Paul Westerhoff). Christopher and Anjali introduced their work. [29:00]

FSE Bylaws changes: Minor changes made to sections A/B and Article 6B/C.[33:49]

Renewal of lecturer contracts and longer contracts: roadblock is faculty evaluation process occurring too late. New online process might help, but a university level conversation is necessary. [34:00]

Promotion, tenure, and retention criteria: minor change regarding external review letters and less verbage. [35:12]

Current discussions in the EC: faculty development and leadership (for junior, associate, full Professor). Non-T/TT mentoring Master’s thesis. [36:00]

Q&A [37:20]

Industry partners slide: why isn’t Intel listed? Only some partners listed earlier.

Process for changes to bylaws: changes suggested to EC, discussed in EC, and then sent to appropriate entity for approval.

How can faculty get involved with entrepreneurial-mindset initiative? Ann McKenna introduced a Symposium on Nov 12,13, 14 where founding Dean for TEDI (School 7) will speak. She will be engaging faculty in developing curriculum.

How does entrepreneurial-mindset compare to standard (grants/publications) faculty measures? Entrepreneurial-mindset opens another avenue for success in addition to grant success. At the end of the day, external letters are a measure of success. This concept needs more work.

Relation between Cintana and FSE: Ann McKenna discussed relationship with The Polytechnic University in Shanghai. This university reached out to explore relationship and Cintana has worked with FSE create a program. This will serve as a template to work with other programs. Cintana has a lot of experience setting up university programs in an international setting.

Comment on potential large-scale need for international efforts to provide education to displaced workers due to automation.