

Draft Minutes: NCAC16 and SAC5 Meeting  
January 21, 2019

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Thank you to Cornell University for the continental breakfast in the meeting room

Introductions/departments updates

- John March Cornell University
  - 2 open positions (Systems Eng, Controlled Environment)
- Solud Mchuck, McGill, Montreal Canada
  - Historical high enrollment, new positions in smart prod system
- Steve Searcy Texas A&M
  - All new Admin team, 2 open positions (CEAC, Urban Ag in Dallas, water resources eng and data science)
- Joe Harner Kansas State
  - Declining enrollment, adding env eng (joint with Civil), then new degree
- Gary Fox North Carolina State, year 3
  - 10 new faculty; looking for grad students
- Nate Mosier, Purdue interim head, engineering flat due to resources, one open position in fluid power
  - New admin in Engineering, new building project move in Fall 2020
- Darrell Donahue, Michigan State. Enrollment increasing. Upper admin turmoil settling down. Hope to have new positions in a couple of months
- Oladiran Fasina, Auburn. Centennial celebration. New technology program (batman). Numbers growing.
- Van Kelly, S Dakota State. New deans (ag and Eng). Precision ag initiative includes new building. New major in precision ag, shared with agronomy 75 students
- Dick Straub, Wisconsin. Finances starting to look up.
- Troy Runge, U of Wisconsin. Good student growth. Teaching bottle necks. Search for digital ag. Looking at professional masters
- David Jones, U of Nebraska. Dean moved to chancellor. Enrollment flat. New leadership in CENG. Looking for the right grad students. Hiring at senior level in engineering education (Heidi Dryfus Dukes). Tami Brown Brindle, precision animal management. Taking department to campus wide leadership
- John, Oklahoma State. enrollment controls in. Technology degree Program
- Peter
- Steve Michelson, Iowa State. Dean moved to president. 808 undergrads. AST numbers went down a little. Looking for graduate students. New feed mill, new soil dynamics building and associated labs. New vehicle facility dyno with Danfos

- Mike Montross, U of Kentucky. New engineering dean. Starting technology program. Dean also wants an engineering technology program.
  - Loosing students to mechanical engineering. Starting biomed engineering which will impact the program. Shop may be torn down for batting cages.
- Julie Carrier, U of Tennessee, bio system, construction science, soil sci. Enrollment in BSE is flat, more females. New hire from Florida
- Bruce Miller. Utah State. Technology programs. Continue to grow. 1000 students in unit. Technology systems, Ag syst tech, professional pilots (aviation mechanics (FFA) wind energy) 9 degrees
- Juming Tang – Washington State. 4 areas (food, energy, water, and mech). 83 grad students, 78 PhD students). New hire in biosensors. Technology program growing. BYU Idaho looking at Ag Tech (3 faculty)
- Darren Dolinger, ASABE
- Paul Heinemann, Pen State , department doing well, hiring new faculty. Moved into new building in may.
- Scott Shear. Ohio state U. hiring 5 TT members in discovery themes. Start up costs raised from parking fees. 750 students (360 eng). Budgeting based on SCU. FABE degree with specialties.
- Discussions on Environmental Engineering
  - Civil taking over env engineering (wastewater) Ag is taking over non-traditional portions (hydrologic). NC State has it in civil, ag eng has ecological and env eng. Developed a venn diagram on the environmental side. Meet with COE advisors every year. Interact with students every semester. Oklahoma State – classically an environmental. Now teaching hydrology side, civil on built arena. ABE in natural environment. Applied master's engineering programs are a good outcome of env eng, paying their own way. Sustainability is another potential growth area. Another resource would be videos on the program. Venn diagrams will be circulated on environmental and mechanical degrees.
  - Interesting discussion on Cannabis. Fertilizer people putting \$. Venture capital \$ coming into Ag. Canada gets pressure to add certificates on cannabis. We are all trying to see what is happening with legality. Keep name of cultivar out of process.

#### ED-210 Business meeting and NCCC committee reviews

- Midwest plan services extensional materials group.
  - Identify and communicate food systems. Foster multi-state preservation of food systems. Group is meeting outcomes. Fertilizer group is very active. Conclusion: no concerns.
  - Group should look at narrowing topics in future.

- NIMSS, NCCS 9 minutes from this report filed. Comments due by Feb 15, 2019
- Regional Committee Recommendation: Excellent. NCRA217: no formal comments submitted. Drainage design to protect water quality. Work to meet 45% reduction goals to Gulf of Mexico. Drainage water capture and reuse. Sizable national meeting.
  - Committee Recommendation: Excellent
  - Group will submit combine report and submit by the deadline.

Midyear reports. Mentoring process and mid project check

Our comments go to an associate deans group, which makes the recommendations directly to USDA

- NC1194: biosensors and nanotechnology.
  - Active group, 6 objectives, met in 2018.
  - First 3 objectives on new nanotechnologies and materials
  - 4 economic and risk assessment. Weaker than Obj 1 – 3.
  - 5 & 6 (outreach). Not moving ahead as thorough. Need to recruit additional people to assist with outreach objectives.
  - Committee Recommendation: Excellent, but make sure Objectives 5 and 6 are addressed.
- NCERA101 Controlled Environment (extension and research committee)
  - 6 objectives
  - Broad cross-section of people involved, including industry. 200 members and 120 at last meeting.
  - Funded grad students. Industry is sponsoring students to attend meetings
  - They purchased equipment for the participants and its use has reduced over time.
  - Group should demonstrate how industry is using their findings. They need to include specific examples
  - International connections are strong
  - Report does not do justice on what they have been doing. They are selling themselves short, actually probably doing more.
  - Good model; should be nominated as a group for a USDA award.
  - Committee Recommendation: Excellent.
- NCERA180 – Precision Agriculture for Food, Fiber, and Energy
  - Have not reported on 2018 meeting
    - There has been a delay in the state members getting their reports together.
    - Large, national group with a long history.
    - Not meeting this year's reporting responsibilities.
    - 2017 low level of participation

- Reporting has been a weakness
  - Waiting on a report to make comments
  - We need to make sure faculty understands the importance of reports
  - Committee Recommendation: Needs Improvement. Document participation and annual report for 2018. We encourage them to submit a report for 2017.
- Senior design experiences (David Jones to lead)
  - 1<sup>st</sup> grade to public (user) involved
  - Capstone should be experience based, not just design based.
  - Integrate social sciences
  - Integrate international experience
  - Integrate remote team members
  - One class was done with a marketing class
  - General Engineering Capstone that integrate disciplines.
- Update from ASABE (Darrin Drollinger)
  - Starting to hide email addresses and on printed roster
  - Growth and Sponsorship
  - Into third year of Goals prominence, advance society, position as preferred society, standards, diverse membership
  - Last year new web site
  - Gary Fox is editor in chief of publications
  - Value growth of membership is a goal is trying to increase relationships with industry. Including annual meeting; subject matter; speed matching session between industry and attendees;
  - Annual meeting: reduce number of sessions by increasing quality without excluding grad students; elevate poster sessions, look at eposter;
  - Foundation increased scholarship amounts to \$1,500 per year. Modernizing mission and vision of the foundation.
  - Working on harassment policy statement. Adding harassment issues to public statements. What are the levels of response to harassment at a conference or meeting? ASABE's harassment policy was very aggressive. ASABE borrowed most of it, but did not adapt the consequences statement. How do you handle cultural norms when they are not to norm of the United States? Main action is to let employer know what has happened. How do you define hostile and intimidating behavior? Need to protect both sides, but have right to keep a safe environment.
  - Water security conference was a success. CAST nominations are open.
  - ATEC meeting coming up.
  - Boston meeting in July. Rooms will be a premium. The \$195 rate is excellent. Fountain wars suspended for Boston. Need to rethink about it being an

electronic version with a video and oral competitions. They cancelled the event prematurely without sufficient input.

- Farm Foundation – promote food, fiber,,. Have to be invited by a member. Round table discussions plus a tour of venture capital start-ups.
- Question raised about success of giving students free membership for a year.
- Will ASABE continue to offer incentives to folks taking the PE. They have not had very many members asking for reimbursement
- EO5/3 committee launched
  - Supersizing media relations

#### Discussion of changes to ASABE journals (Garey Fox)

- Gary led us through a series of questions using a Kahoot survey. His goals are to reduce average time to initial review and to strengthen our publications. Members pointed out deficiencies in the Transactions internal search engine. At some point in the future we will look at an independent editor.

#### E-05/3 Digital Strategy Committee (Scott Shearer)

- Intent is to connect with the organization
- Survey on connection with ASABE will be sent to Department Heads. Survey questions were reviewed.
- We do a salary survey every two years. It is about time to do another.
- Look for a way to connect department communications coordinators.
- Will send a preliminary survey out so that we can get answers ahead of time
- We need a repository of videos and other promotion material.

#### Richard Straub

- Think about committee leadership
- There is an electronic link on committees that keeps getting broken
- Richard is retiring, need another sponsor.

#### Committee nominates David Jones will be vice chair in July

- Livingston is vice chair, and will be chair after July International meeting.
- Committee voted to elect David, Thank you!

## Other Discussions

- Shereka has the salary survey on her computer. EOPD is academic administrator, so the can continue. She can send to Darrell who will work with Paul to get it out.
- ASABE meeting will be in Omaha in 2020. Looking at events in Lincoln to attract folks to visit the Lincoln campus.
- Distance delivered masters program. NCS has a water program in professional. Paul's institution is shutting down their energy program. Van's COE has one but there are not TAMA ABE courses on the system. Seems to be a demand for non-engineer's MS. Runs 8 to 10 students and have a tough time growing the program. Companies are not investing in getting their students in the program. Food people were more interested in certificated training then courses.
- How do we increase diversity in our programs.
  - Biological only in name 9 to 19% growth in program
  - Bio and ag – no change.
  - Do we need to look at what are we calling our selves
  - How do we market students out of ag families to go back and work in ag. Very difficult.
  - Aptitude, interest, ability. We they are lacking in ability. We need to work with the students early to help them get prepared. Math and physics instructors need to adopt active learning techniques. Physics could be taught by engineering lab students.
  - Math and physics as a right of passage versus what they need to success. Several members had examples of when linear algebra would be needed, but they were really just using the math in an equation, not deriving an equation, so some fundamental introduction to linear algebra in the class may have been enough.
- 6 p.m. Adjourn