

**Miami University**  
**Department of Engineering Technology—Advisory Council Minutes**  
***Engineering Technology—Combined Meeting***  
**Friday, April 20, 2007**  
**Johnston Hall Community Center, Middletown, Ohio**

**Minutes**

**Attendees:** (see lists from breakout sessions)

**1.** Following introductions, Ayo presented a brief update about the department. Some key items presented include:

- ENT has a vision to be a statewide leader in engineering technology education; produce well trained graduates for the technology workforce; and produce leaders.
- Number of majors is 150 and has dropped slightly (which is a national trend for ET) but the number of graduates increased to 59 in 2006 compared to 47 in 2005.
- We need to get Student Credit Hours, SCH, above 1000.

**2. Recent Achievements:**

- ABET Accreditation of BS completion programs in EMET and MET.
- Expansion of Articulation Agreements to other two-year colleges in Ohio.
- Some recent graduates have taken and passed FE exams.
- Restructuring of several labs.
- MET students won national design competition in 2005.
- Professors are presenting more key papers at conferences and publishing key papers.

**3. Recent Developments:**

- Continuous improvement and assessment plans almost completed.
- Initiating new recruitment plans and strategies.
- Initiating the process for offering a pre-engineering degree program.
- Initiating collaborative projects within ENT, at MU, and with other universities.
- Epsilon Pi Tau Chapter fully reactivated.

**4. Strengths and Opportunities:**

- Highly dedicated faculty and staff.
- Support of leadership at Miami (SEAS and Regional Campuses).
- On-going collaboration with industry partners.
- Highly motivated students.
- The Access Initiative by President Hodge.
- New service document leading to improved documentation of Service.
- Strategic Goals: experiential learning, collaborations on design and scholarship; and expansion of local and distance education in engineering technology.

**5. Breakout Sessions:**

- We then broke into 2 sessions: (ECET-AD/EMET-BS) and (MET-AD&BS).

Submitted by: Ayo Abatan

Electromechanical Engineering Technology (BS)  
and  
Electrical and Computer Engineering Technology (AD)

**Advisory Council**

*Friday, April 20, 2007*

*Johnston Hall Community Center*

*Miami University Middletown*

2:00 – 3:30 P.M.

1. Review minutes of last meeting. (10 minutes)  
EMET—Dave Hergert  
  
ECET—Roger Seifried
2. Review ENT 296 Programmable Controllers (15 minutes) Roger Seifried
3. How PLC's are used in EMET (15 minutes) Dave Hergert
4. TAC/ABET accreditation preparation (20 minutes) Roger Seifried plus all
  - Requirements for EMET (Dave Hergert)
5. Update on distance program-EMET (10 minutes) Dave Hergert
6. Discussion of how advisory council can help with accreditation and program assessment.  
(10 minutes) Rob Speckert plus All
7. Open discussion and wrap up

## **Advisory Council - Minutes of EMET/ECET Session Friday April 20, 2007**

1. **Attendance:** Tim Vonderharr—Force Control, Ray Scott-Scottware.net, Dave Musson—Musson Industrial Services, Brenda Kuhl--OPW Fueling Components and student, Rick Mack—Duke Energy, Ken Warfield—Shawnee State Univ., Michael Scott—GE Automation, Dan Thyen—Duke Energy, Michael Harrison—Wyle Labs, Mike Mumma—Trane, Catherine Dunwoodie—EPIC Technologies
2. From Miami: Don Becker, Dave Hergert, Roger Seifried, Frank Tonner, Mysore Narayan, Rob Speckert
3. Dave reviewed the *minutes from Sept. 06, 2006* and updated the group on the action items. Roger did the same re: ECET. We discussed that we are meeting together because of common curricular issues.
4. Roger presented *ENT 296 PLC's*. and noted that this course is a direct result of the advisory council input. The following are some comments:
  - a. AB is most popular so good choice on brand
  - b. Good to do some simulation—this is valuable and effective.
  - c. Easy Automation and Industry Direct are possible vendors to consider.
  - d. Consider dropping modbus and profibus to make room for more Ethernet and HMI
5. *PLC's in BS has focus on controls*. Dave showed examples of using Wonderware. He also reported on integration of controls with Sequel Server then to data transmission. This is a topic advisory council suggested we cover.
6. The *Dean joined us*, made a few remarks, then opened it up for discussion, comments, etc. Here is what followed:
  - a. We should *consider a masters program* to provide additional options for our grads. Some go into MBA. Some may consider the new Computational Science masters in SEAS.
7. **Curriculum ideas:**
  - a. Industrial automation is more important than fuzzy logic and AI.
  - b. More on data collection and analysis
  - c. Focus on networking—single loop controllers (352 loop)
  - d. Do more web control of processes
  - e. Consider a biomedical certificate
  - f. Increase collaboration with CIT to enhance networking coverage
8. Roger reviewed and presented *TAC/ABET accreditation process*, documentation required, etc. He discussed course notebooks, assessment, continuous improvement, or accreditation notebooks, and the accreditation guide. Rob emphasized the role of advisory council and how important they are to the TAC/ABET review process.
9. Dave reported on the *distance program*. EMET has connected with 5 additional colleges effective 2007-2008 AY. We are also looking into offering EMET through Voice of America.
10. Meeting adjourned at 3:30 P.M. at which time we reconvened with the MET advisors for a debriefing.

Minutes Prepared by: Rob Speckert

# Mechanical Engineering Technology AS & BS Advisory Council Minutes

April 20, 2007

## Attendees:

*Advisory Council Members:* Douglas Cheek, Kerry Willet, Will Willet, Dan Hellenbrand, Ken Williams, James Valentine, Randy Myers, and Mauro Losz

*Faculty:* Gary Drigel, Ron Earley, Ayo Abatan, Vipul Ranatunga.

1. **Old Business:** We started our MET AS & BS concentration session circulating the minutes of the last meeting.
2. **ABET Accreditation:** Gary summarized to the advisors that we will be going for our ABET reaccreditations on both AS and BS degrees during the year 2007. This time, both associate and bachelors programs are going for accreditation so that all the programs will be on the same accreditation cycle. Vipul mentioned that we need to send letters to former graduates informing them that the program is now accredited; backdated to 2004; and mention their eligibility for FE exam.
3. **Updates on Mechanical Programs:** Under the updates on mechanical programs, we presented the new courses, courses with new lab classes, and also the ABET recommendations. We presented a new addition of ENT 137 with one credit-hour as a recruiting tool for freshman students. Randy inquired about any ENT course related to CFD and mentioned the more user-friendly interface in ANSYS.
4. **Recruiting Updates:** Discussed the initiatives taken to enhance recruiting from area institutions for 4-year programs. Advisory council pointed out the new challenges by moving national online education institutions to the area and increasing competition. Conclusion was that it is the time to start thinking about alternative ways of delivering classes. We need to document the effectiveness of different delivery methods and use them to promote our program and stay competitive with online educational institutions.

Ayo mentioned that the Engineering Technology programs are now visible at SEAS website under regional campus programs; so that a visitor can see options of completing degree at regional campuses. This is an improved visibility for ENT at MU.

Meeting concluded with extended discussions on changing demography of the area and keeping our awareness on improving program deliveries with traditional as well as online delivery methods.

Submitted by: Vipul Ranatunga