

March 17, 2009

Dear Advisory Council member:

Hello from Miami University's regional campuses and the Engineering Technology Department. I am writing to invite you to attend and participate in our Spring 2009 meeting. As a member of the ENT Advisory Council, your presence and contributions are very valuable to the faculty and the students we serve, and we hope you can attend this semester's meeting.

This year, our spring meeting will include a general session with the other regional campus departments in the School of Engineering and Applied Science - Computer & Information Technology, and Nursing, and will be held on Friday, March 27, 2009. We will **begin at 12:30pm** with lunch. Our meeting will be held at Miami's new Voice of America Learning Center (VOALC) in West Chester (directions included). We thought this was a good opportunity to introduce you to this new facility.

Our format will include an opening general session with all three departments, followed by individual departmental sessions. The agenda will include the following:

12:30pm	Lunch
Approx 1:15 pm	Welcome and opening remarks
1:20pm	Overview and brief comments - Corporate and Community Institute
1:30pm	Overview and brief comments – Miami's Regional Development offices
1:35pm	General Discussion: Impact of the economy on organizations and industries connected with Nursing, Engineering Technology, and Information Technology
2:15pm	Break and self-guided tour of VOALC
2:30pm	Department Session
Approx 4:00pm	Adjourn

***Please let us know if you will or will not attend by replying to this e-mail message ([webbpb@muohio.edu](mailto:webbpb@muohio.edu)) or by calling Pam Webb at 513-785-1804 by Friday, March 20.*** If you have any questions about the meeting, please do not hesitate to contact Pam at the number above. Also, if you notify us that you will attend, and then cannot do so, please let us know that as soon as possible.

Once again, thank you for your commitment to be an active member of the Engineering Technology Advisory Council and the valuable input you provide. We look forward to seeing you on the 27<sup>th</sup>.

Sincerely,

Ayo Abatan, Ph.D.  
Chair & Professor

**Mechanical Engineering Technology – AD and BS  
Advisory Council  
Friday, March 27, 2009  
Voice of America Learning Center  
7847 VOA Park Drive  
West Chester, Hamilton, OH**

1. Old Business - Anything from the last meeting
2. ABET Accreditation for AS and BS Programs
3. Program Review and Hybrid Course offerings for MET
4. Update on AS Mechanical Program
5. Update on BS Mechanical Program
  - ENT 312 Thermodynamics / ENT 415 Heat Transfer CD format
  - ENT 310 and 314 CD Format and distance
  - ENT 333 Comp. Methods vs. Differential Equation Course
  - EAS 101 / 102
  - New design course
  - Other updates
6. Recruiting Update:
  - Collaboration with Sinclair and Cincinnati State
  - Visits to local high schools
  - Local industries
  - Ideas?
7. Five Year Plan and Beyond:
  - New ENT BS Majors
  - BS major offering on other local CC campuses.
  - Ways of collaborating with SEAS on students admissions
  - Workshops at Hamilton and Middletown campus
  - Prompt applied research through industrial collaborations.
  - Ideas
8. Interaction with local industry and development of industrial partners
  - Training classes (software, other topics)
  - Identify faculty focus areas, local industrial needs, and promote industry-sponsored research and senior design projects
  - Equipment acquisition
  - Collaboration with class material.
  - Guest speakers to enhance traditional teaching methods
9. New Business
10. Adjourn

# Mechanical Engineering Technology AS & BS Advisory Council Minutes March 27, 2009

Attendees: Kerry Willet (P&G), Ken Williams (BAE Systems), Rick Albrecht (G.E.), Richard Boger (Simulia), Dave Lippert (Hamilton Caster), Doug Young (Abaqus), Vince Breidenbach (P&G), Randy Myers (P&G), Andy Schumacher (P&G), Cindy Braden, Mauro Losz (AK Steel), Ayo Abatan, Gary Drigel, Ron Earley, Vipul Ranatunga, Ron Earley

1. Old Business: We started our MET AS & BS concentration session at about 2:30 PM on March 28<sup>th</sup>.
2. TAC/ABET Accreditation & Program Review: Advisory council members were briefed about the outcomes of 2007 TAC/ABET and Program Review visits for both the AS and BS. The MET faculty thanked the students and council members for their participation and the vital role they played in the process. Ayo pointed out that the TAC/ABET group specifically mentioned the attendance and the impact on curriculum development by MET advisory group. Ayo noted that the MET Advisory Minutes documented good attendance and active participation of MET advisory council members that positively impacted syllabi and lab content and overall MET curriculum development.

Gary reviewed the direction given by program review committee and provost concerning 'online' course offerings and MET action plan developed to meet these requirements. To quote from the action plan "Engineering Technology programs are not well-suited for a fully online delivery model. This is due to accreditation requirements and that it is essential for engineering technology programs to require hands-on labs. As such, most of the ENT courses will be **hybrid** meaning that some material will be delivered on campus as is done today and some will be delivered electronically. We do not see our programs being delivered completely electronically such as the University of Phoenix programs." Also discussed was the provost's positive response to the submitted hybrid action plan. The MET advisory council members were in unanimous support of the position and direction of both AS and BS programs.

Vipul highlighted the initiatives taken to implement hybrid delivery of courses, mentioned that the ENT 355 has been offered as a pilot-test course during spring and ENT 407 will be offered as a hybrid course during summer. Gary also discussed Ron's pilot work creating course CDs for 310, 312 and 415.

3. Additional Degree Programs:  
Discussed in detail the State of Ohio mandate for regional campuses and the possibilities for offering additional BS degree completion programs on the regional campuses. Gary highlighted some of the associate degrees and their enrolments at potential local partners such as Sinclair Community College. The committee discussed the various BS degree options to couple with Sinclair's associate degree programs. Potential staffing issues could include offering classes at both sites using faculty from both Sinclair and Miami. This could provide several synergies including the establishment of a "pipeline" of students between the two institutions. This could help resolve some of the laboratory needs as Sinclair is well-equipped with lab equipment through numerous grants and support from industry.

Advisory council requested that Miami obtain the details about students who complete associate degree programs especially in the mechanical areas. Specifically, it should be ascertained what percentage of students may plan on pursuing BS degrees after graduating from Sinclair. This could include a survey with current students at Sinclair about their interests and plans of further studies beyond the associate degrees.

Discussed in detail the architectural and civil engineering associate degree program at Sinclair and highlighted the possibility of adding a BS-completion for these students. Also discussed were the potential needs to introduce such degree programs, as environmental, surveying and transportation. It was also pointed out that there is a great potential in introducing additional degree programs but it is necessary to find what the university would gain by introducing these additional programs. Direction from advisory Council members was the need to add faculty members in order to facilitate the development of additional BS degree programs. It was agreed that at least one new faculty member with expertise in the degree concentration would be necessary to and an addition program.

4. MET-specific meeting adjourned at 4PM by briefly highlighting other businesses including recruiting efforts, the need to visit area industries for recruiting, etc.
5. Adjourned the program session and presented the summary of things we discussed.

**Miami University**  
**Department of Engineering Technology**  
**Advisory Council Meeting 03/27/09**  
**ECET Breakout Session Agenda**

1. Review minutes of the fall 2008 meeting.
2. Progress in preparing and presenting courses in Hybrid form.
3. Top down review of the ECET curriculum.
4. Other topics from the council.

**Advisory Council Minutes – ECET**  
**March 27, 2009**

Attending were:

Industry: Donald Meineke, Jr., Rick Adams

Faculty and staff: Nizar Tayem, Don Becker, Roger Seifried

Welcome to our new member Rick Adams from Valeo.

Minutes:

The minutes from the previous meeting were reviewed.

Hybrid courses:

We plan to do all of our courses in a hybrid format, meaning that the lectures will be recorded and put online along with course material. Labs, Q&A, and testing will be done on campus. We have the material online and are currently working to get the lectures on line.

Curriculum review:

We started a top-down curriculum review looking at all the courses in the program and a review of the content of all the ENT courses. This will be continued in the next meeting.

Recommendations:

- Assign members for team projects by considering capabilities and personalities as done in industry.
- Give more emphasis to project management in team projects.
- Add A/D and D/A running a VFD to the PLC course.

Prepared by Roger Seifried 3/28/09

**Miami University**  
**Department of Engineering Technology**  
**Advisory Council Meeting 03/27/09**  
**EMET Breakout Session Agenda**

1. Report on minutes from last meeting.
2. Description of new course ENT 402 Industrial Automation.
3. Results of TAC/ABET visit.
4. Expansion of EMET distance program to new sites.
5. EMET Senior Design projects for 2009.

**Miami University**  
**Department of Engineering Technology**  
**Advisory Council Meeting 03/27/09**  
**EMET Breakout Session Minutes**

Greg Gibbs described his duties as distance coordinator and some of the projects he has been working on.

Dave provided a description of a new course: ENT 402 Industrial Automation. It will be offered for the first time in Spring 2010. The course will include robotics, PLCs, microcontrollers, and SQL data mining. Jesse and Greg both suggested we also include topics in safety (OSHA) and Ethernet.

Dave discussed the outcome of the ABET visit to distance sites last November. EMET got a 6 year accreditation. Concerns included assessing two year students entering the B.S. program, and assessing distance courses separately to ensure students are getting an equal education. In the future, all distance courses will undergo a Quality Matters assessment, and there will be at least one proctored in-class test for each distance course.

Rob and Greg discussed new distance sites including Terra and Northwest. They had information sessions at both schools with a large attendance. Rob showed an Ohio map with all of our distance partners. We are close to covering the entire state excluding the lower southeast corner. Rob noted the EMET distance program has made great progress in its connectivity in the last few years. We know offer multiple modes of simultaneous delivery, including the use of Elluminate.

Dave noted that distance education technology is continually evolving. The EMET program is making some forays into mobile computing, podcasting, and the use of an iPhone to receive data from a sensor.

Greg led a general discussion on what determines if a distance program is in good standing. Members of the advisory council noted that there needs to be a champion for the department at each campus who also helps with recruitment. Jesse made the comment that two year associate programs should be "ABET accreditable". Greg gave a handout showing students in different phases of the program at each campus.

Dave invited everyone to be a judge at Senior Design Presentation Day on April 24, 2009.