

SEAS Advisory Council Meeting Miami University Middletown April 20, 2007

Status Report on Engineering Technology

**Ayo Abatan
Professor and Chair**

Seas

School of
Engineering &
Applied Science



**MIAMI
UNIVERSITY**
OXFORD OHIO

ENT VISION

- Engineering Technology at Miami strives to be a statewide leader in Engineering Technology education and recognized locally for its leadership and commitment to delivering high-quality, technically relevant courses and workshops for area businesses and industry.
- Produce well trained graduates for the technology workforce.
- Produce leaders.

The logo for the School of Engineering & Applied Science, featuring the letters 'Seas' in a stylized, overlapping font.

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Engineering &
Applied Science



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ENT Degree Programs

- Associate Degrees:
 - Electrical and Computer Engineering Technology (ECET)
 - Mechanical Engineering Technology (MET)
- BS Completion Degrees:
 - Electromechanical Engineering Technology (EMET)
 - Mechanical Engineering Technology (MET)

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ENT Degree Programs

- Certificate Programs
 - CAD/CAM
 - Computer Maintenance

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ENT INFRASTRUCTURE

Housed on the regional campuses in Hamilton and Middletown (commuter campuses)

Lab Facilities

Computers (CAD, engineering analysis, simulations, etc.)

Electrical/electronic/microprocessors/PLC's

Networking

Manufacturing/CNC/Robots

Materials (analysis and testing)

Process control

Fluids—including a wind tunnel

Thermodynamics/Heat transfer

Vibrations

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PROGRAM UPDATE TAC/ABET RESULTS

- All Associate and Bachelors Degree Programs are TAC/ABET Accredited
- New Accreditation Review in 2007-08
- Personnel

Faculty ==> 9

Technical Staff ==> 2

Administrative Staff ==> 2

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FACULTY

Professors

Rob Speckert

Dave Hergert

Ayo Abatan

Associate Professors

Ron Earley

Mysore Narayanan

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FACULTY

Assistant Professors

Gary Drigel

Roger Seifried

Vipul Ranatunga

Suguna Bommaraju

We usually employ two to three adjunct faculty per semester.


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Faculty Areas and Campus

Hamilton	Middletown
<p>Ayo Abatan, Professor and Chair Rob Speckert, Professor</p>	
<p>Gary Drigel, Assistant Professor, Mechanical</p>	<p>Suguna Bommaraju, Assistant Professor, Electrical and Computer</p>
<p>Dave Hergert, Professor, Electro- Mechanical</p>	<p>Ron Earley, Associate Professor, Mechanical</p>
<p>Mysore Narayan, Associate Professor, Electro-Mechanical</p>	<p>Vipul Ranatunga, Assistant Professor, Mechanical</p>
<p>Roger Seifried, Visiting Assistant Professor, Electrical and Computer</p>	 <p>MIAMI UNIVERSITY</p>

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STAFF

Technical

Frank Tonner (Hamilton Campus)

Don Becker (Middletown Campus)

Administrative

Pam Webb (Hamilton Campus)

Debbie Smith (Middletown Campus)

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ENT STUDENTS

- Most of our students are part time.
- Approximately 150+ majors in four degree programs.
- More and more students are choosing the co-op experience.
- We deliver our BS Completion degree by distance learning (IVDL, web, DVD, etc.) to five college partners—and growing—across Ohio. New articulation agreements signed.

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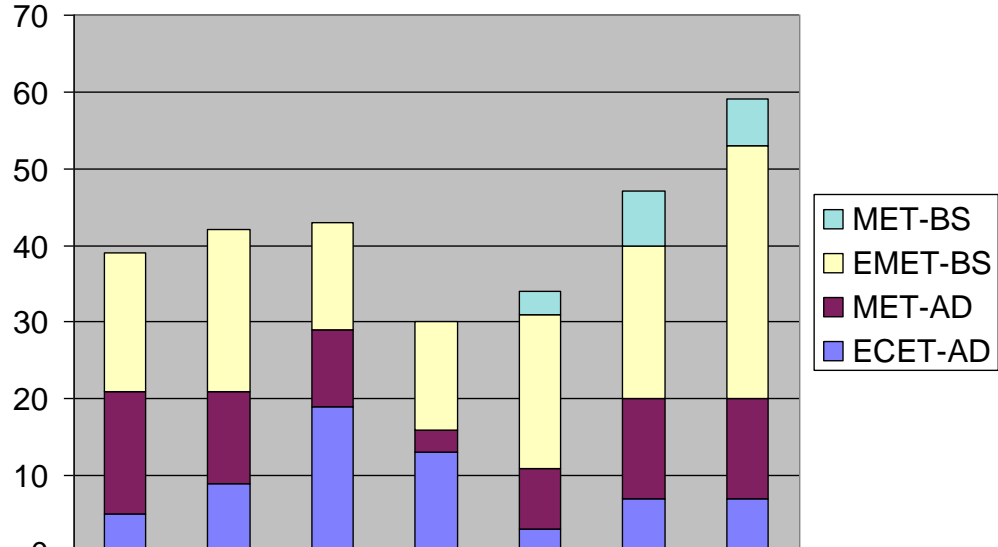
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Graduates



	Total 2000	Total 2001	Total 2002	Total 2003	Total 2004	Total 2005	Total 2006
MET-BS	0	0	0	0	3	7	6
EMET-BS	18	21	14	14	20	20	33
MET-AD	16	12	10	3	8	13	13
ECET-AD	5	9	19	13	3	7	7

RECENT ACHIEVEMENTS

- ABET Accreditation.
- Expansion of Articulation Agreements.
- Students take FE and PE Exams.
- Restructuring of Several Labs.
- MET Students won National Design Competition in 2005.
- Professors are presenting key papers at conferences and publishing key papers.



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RECENT DEVELOPMENTS

- Continuous Improvement and Assessment Plans almost completed
- Initiating new Recruitment Plans
- Initiating the process for offering a pre-engineering degree program
- Initiating collaborative projects
- Epsilon Pi Tau Chapter Reactivated

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STRENGTHS AND OPPORTUNITIES

- Highly dedicated faculty and Staff
- Support of Leadership at Miami (SEAS and Regional Campuses)
- Collaboration with Industry Partners
- Highly Motivated Students
- The Access Initiative by President Hodge
- Improved Documentation of Service



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FUTURE OF ENT

Strategic Goals

- broaden experiential learning through improved lab and field experiences
- enhance industry collaborations on design and scholarships
- expand distance education that promotes the development of Ohio citizens

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ENT FUTURE OBJECTIVES

- Assess development and use of effective, on-line delivery system for engineering technology distance education
- foster entrepreneurial spirit
- develop engineering technology leaders

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