

**ETD Section Activities Report  
June 2005**

**Jerome Tapper  
Northeastern University  
Boston, MA**

**Northeastern University – School of Engineering Technology, Boston, Massachusetts**

To: Carol Richardson, ETD Chair  
From: Jerome Tapper  
Subject: ETD Section Activities Report

June,2005

Carol,

In preparation for the ETD section activities report to be given at 2005 ASEE conference meeting in Portland, Oregon, please find enclosed a copy of the activities material I have received to this point in time as of the last meeting at the CIEC conference in Savannah, Georgia.

Best regards,

Jerry Tapper

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# CALL FOR SECTION ACTIVITIES

## ETD Activities *Local - Regional - National - International*

“We want to know about it !!!”

### EXAMPLES:

#### **Conferences:**

- Local conferences hosted or will be hosted by your institution or any that your ETD colleagues from your institution have attended.
- Regional conferences hosted or will host by your institution or any that your ETD colleagues from your institution have attended.
- National conferences hosted or will host by your institution or any that your ETD colleagues from your institution have attended.
- International conferences hosted or will host by your institution or any that your ETD colleagues from your institution have attended.

#### **Events:**

- Educational events hosted or will be hosted by your institution or any that your ETD colleagues from your institution have attended.
- High school/vocational school events sponsored by, hosted or will host by your institution or any that your ETD colleagues from your institution have attended that helped to promote and further the theme of Engineering Technology. Such events as Science Fairs, Industry visits, are good examples.
- K-12 events sponsored, hosted, or will host by your institution or any that your ETD colleagues from your institution have attended that promoted the theme of Engineering Technology.
- Honor society (TAP) events locally, regionally, nationally or internationally that your institution has hosted or colleagues from you institution have attended.

No event is too small or too local. The purpose of letting us know this information is two fold. First, it allows all of your fellow ETD colleagues to know what is going on nationally within other ETD programs across the country. Secondly, it helps to promote your own institution by putting you institution's name in front of thousands of colleagues across the country. There's nothing like free advertising.

As byproducts of letting us know what you are doing, the ETD Newsletter will also be used to disseminate this information to ETD colleagues across the country. Again, more free program and institutional promotion.

Please let us know what you are doing. If your submitted information is not included in a current edition of our activities report or News Letter due to timing constraints, it will be included in the next edition of both informational instruments.

Sincerely,

Jerry Tapper & ETD Activities Colleagues  
ETD Board Member - Activities

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The following ACTIVITIES material was received:

**ASEE St. Lawrence Section**

ITEM #1

ETD Folks,

The 2005 Engineering Technology Leadership Institute will be held from October 1-4, 2005 at the Rochester Institute of Technology in Rochester, NY.

**The purpose of the institute is to bring together the community involved in two-year and four-year engineering technology education to address issues and challenges of common interests in an informal forum for open discussion:**

- To prepare leadership personnel through faculty and administrative development;
- To enable participants to broaden their knowledge of engineering technology leadership issues;
- To discuss problems of management in an engineering technology environment;
- To provide specific leadership training;
- To provide an opportunity to exchange ideas with fellow educators;
- To provide participants with an opportunity to share their successes in leadership areas;
- To provide an opportunity to exchange ideas with industrial leaders.

ETLI has some very special events this year, as well as one-day and first-timer pricing.

The date is very early for those who start school in September, with registration and hotel accommodations requested by September 15!

For preliminary details, please see <http://www.rit.edu/~castconf/etli/> or follow the trail from the ASEE conferences, ETD or ETLI websites.

John Stratton

ITEM #2

Jerry,

The New York State Engineering Technology Association had its Spring Meeting at the Rochester Institute of Technology on March 17 and 18. A near-record attendance of 100 people, 12 exhibitors, 20 speakers and a number of guests made this a meeting of interest. Further details can be found at [www.nyseta.org](http://www.nyseta.org).

The St. Lawrence Section of ASEE held its annual meeting at Binghamton University in April. Several ET people, faculty and students, made presentations at the meeting. I hear it was very well done.

Prof. Carol Richardson has been appointed Miller Chair and Vice-Dean for the College of Applied Science and Technology at RIT. Prof. Michael Eastman has been appointed as the Acting Chair of Electrical, Computer and Telecommunications Engineering Technology to replace Carol in that role. Congratulations to both of them for well deserved promotions.

Hope this helps,  
John Stratton

ITEM #3

ETr's,

It is time to think about the 2005-2006 year. The first meeting to occur during the year is:

Engineering Technology Leadership Institute

October 1-4, 2005

Rochester Institute of Technology

Rochester, NY

[www.rit.edu/~castconf/etli](http://www.rit.edu/~castconf/etli)

We have now placed the registration form on the website. The price is down a bit from last year, so come and take advantage of the one time we can focus on leadership – leadership of curriculum as well as administration.

John Stratton

ITEM #4

ET Folks,

The Tau Alpha Pi Student Leadership Conference will be held in conjunction with ETLI this fall. Student Leadership Conference September 30-October 2, 2005 (Students may then join the ETLI if they would like on October 2 and 3 without additional cost.)

Rochester Institute of Technology Rochester, NY Students will be housed 3 to a room (2 beds and a cot) and faculty advisors will be housed two to a room. Total cost for the conference, two nights, and meals will be at or less than \$ 120. If institutions will be able to help their students and advisors with some of the cost of transportation and registration, students will have an affordable cost. The program is being planned by the RIT students and their advisor George Zion. Please plan this in your budgets and start thinking about which students and advisors might be able to come. Registration will be announced early in the summer, with a deposit due by September 15. Questions can be directed to John Stratton at [jasite@rit.edu](mailto:jasite@rit.edu) or 585-475-2017.

John Stratton

### **Mid-Atlantic Section**

ITEM #1

## **ASEE MID-ATLANTIC SECTION**

### **FALL 2005 CONFERENCE**

### **STONY BROOK UNIVERSITY**

**Stony Brook , NY October 28-29, 2005**

### **Reinventing Undergraduate Curricula: Impact on Primary, Secondary, and Higher Education**

On October 28-29, Stony Brook University is hosting the Mid- Atlantic Fall American Society for Engineering Education Meeting. We are currently accepting abstracts/papers for the following sessions:

#### **Session 1: Intel/ Siemens Science Competition Experience: How to Achieve Success**

*College Faculty and High School Teachers are encouraged to submit papers describing their experiences in mentoring science students. Undergraduates and High School Students are encouraged to submit papers describing their experiences with being mentored by faculty/ teachers.*

## **Session 2: The Role of College Professors in Primary and Secondary Education**

*Engineering Faculty and Primary/ Secondary School teachers are encouraged to submit papers discussing their experiences with collaborative programs designed to enhance math, science and technology teaching practice or curricula.*

## **Session 3: Minorities and Women in Engineering & Applied Sciences: Success Stories**

*College Faculty and Administrators are encouraged to submit papers describing best practices for recruitment and retention of minorities and women in science and engineering.*

## **Session 4: Entrepreneurship and Engineering Education**

*Faculty and graduate/ undergraduate students are encouraged to submit papers discussing involvement in projects that may lead to commercialization and the impact of the activity on engineering education.*

## **Session 5: Models for Integration of Multilevel Research Groups (Affinity Group Models)**

*We are soliciting papers that describe models for integration of multi-level (secondary school – collegiate) research groups.*

The conference will be held in our newly opened 120, 000 sq. ft. Charles Wang Center and a tour of the Relativistic Heavy Ion Collider (RHIC) at Brookhaven National Laboratory will be included as part of the conference fee.

For more information see

<http://mpg.matscieng.sunysb.edu/asee>

or contact

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ITEM #2

From: "Lawrence Fryda" <lfryda@pct.edu>  
To: <jtapper@coe.neu.edu>  
Cc: <VFUENTES@ccm.edu>  
Subject: Mid Atlantic update

Jerome,  
The following items were all that were self reported in May.  
I hope it meets your needs.  
Larry Fryda

From:  
Hong Li, PH.D.  
Department of Computer System Technology

New York City College of Technology  
(718)260-5546

Connecting professional organizations such as ASEE with New York City College of Technology ( City Tech) engineering technology students is A primary goal for a new federally funded grant on City Tech's campus, the Adjunct Academy. On June 1 , 2005, the Adjunct Academy hosts a half day symposium bringing together departments in the school's technology and design division. Professional organization representatives will be on hand to assist departments in planning future efforts to include students in outreach experiences such as participation in exhibitions, conferences, and scholarship competitions. Professor Hong Li of ASEE will consult with technology departments such as computer engineering technology and electrical engineering technology in planning a set of benchmarks to support involvement of professional societies and help students develop their professional identities.

### **North Central Section**

Jerry

I submit the following for inclusion in the ETD annual activities report.

Thanks for making this opportunity available to us.

Robert L. Mott, P.E.  
National Center for Manufacturing Education  
Sinclair Community College, Dayton, Ohio  
Professor Emeritus of Engineering Technology, University of Dayton  
Dayton, OH 45449  
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The National Center for Manufacturing Education (NCME) in Dayton, Ohio is a partnership between Sinclair Community College and the University of Dayton, working closely with the engineering technology programs at each institution. The past year has seen the establishment and growth of the Manufacturing Education Resource Center (MERC) through a clearinghouse of manufacturing education materials and a variety of services to assist in faculty development and program improvement. Recently, the NCME has begun offering free web-based seminars including Teaching Lean Manufacturing and Future Needs in Manufacturing Education. Five other webinars are to be offered in the next three years. The NCME maintains collaboration with the ASEE Manufacturing Division, the Society of Manufacturing Engineers, and the CIM in Higher Education group. See the website [www.ncmeresource.org](http://www.ncmeresource.org).

### **Midwest Section**

Jerry:

We have some exciting events/projects going at the Uni Arkansas at Little Rock. Please promote our activities through ETD publications and or at ASEE Conference.

Thanks, Midturi Chair of ET at UALR

### **Sponsored Research by Engineering Technology Faculty at the University of Arkansas at Little Rock (UALR), Arkansas during 2004-2005**

1. **'Ivory-Billed Woodpecker (*Campephilus principalis*) Persists in Continental North America'** an article by Fourteen Authors including David Luneau of ET faculty at UALR in Science NOW April 28, 2005, Copy right by the American Association for the Advancement of Science.

David Juneau, Associate Professor in Electronics and Computer Engineering Technology was involved in a multi-agency science project that discovered ivory-billed Woodpecker. This was a sensational news last month and was referenced by the U.S. Senators, Arkansas State legislators, CNN News, and several other news papers and magazines. David has put UALR and engineering technology on the science map. He videotaped the Woodpecker and worked with Cornell Laboratory of Ornithology, Cornell University to process images to decide the discovery.

The Ivory-billed Woodpecker has been thought to be extinct in the U.S. for many years. On April 25, 2004, long believed to be extinct, a magnificent bird--the Ivory-billed Woodpecker--has been rediscovered in the Big Woods of eastern Arkansas. More than 60 years after the last confirmed sighting of the species in the United States, a research team announced that at least one male ivory-bill still survives in vast areas of bottomland swamp forest. The Nature Conservancy and the Cornell Lab of Ornithology lead the Partnership.

**2. Development of an Interactive Energy Management Tool (IEMT) for Arkansas Companies**

This interactive web based software is designed to help small and medium size Arkansas companies reduce their energy consumption. The IEMT unlike the Department of Energy tools includes several energy modules and determines dollar savings. The tool is user friendly and provides industrial users with specific customized recommendations to save energy.

Funded by the Arkansas Department of Economic Development, Energy Office

**Dr. Steve Menhart** (Professor, Electronics and Computer Engineering Technology, **Dr. S. Pidugu**, Assistant Professor, Mechanical Engineering Technology, and **Dr. S. Midturi**, Chair and Professor, Mechanical Engineering Technology are the investigators.

**3. Arkansas Industrial Workforce Energy Education Initiative**

This initiative involves recruitment, education, and training of students from trade schools, high schools and two-year institutions to prepare them for energy related careers in every sector of manufacturing. In addition, specialized short courses dealing with energy equipment, energy use, and energy reduction methodologies will be offered to benefit technicians and engineers in industry. Pulaski County Special School District, Pulaski Technical College, Energy, and Arkansas Department of Economic Development are the collaborators in this project.

Funded by the U.S. Department of Energy.

**Midturi, S., and Pidugu, S., are the investigators.**

**4. Assisted Night Vision for Motorists in Highway Construction Zones: Phase I** This project

investigates the idea of providing some form of

illumination along the side of the concrete barrier walls, along interstate highways, similar to driveway lighting at homes or runway lights at airports. Funded in cooperation with the US Department of Transportation, Federal Highway Administration, Mack Blackwell Transportation Center and Arkansas Highway Transportation Department under grant number MBTC 2050.

**Patangia, H., Professor and Program Coordinator of Electronics and Computer Engineering Technology is the Principal Investigator.**

**5. Development of a Software Radar Receiver for Remote Sensing**

The main thrust of this project is to develop a prototype of software radar receiver where the primary signal processing is all performed on general-purpose computers. This would enable easy configuration of the receiver and allow customization of the receiver to observational tasks such as high rate global meteor flux monitoring. This type of software radar has multiple advantages such as their performance, flexibility, and lower cost.

Funded by the University of Arkansas at Little Rock Cyber College Seed Grant. The proposed activities will support the PI's initiative to seek funding from NSF under the Coupling, Energetics, and Dynamics of Atmospheric Regions (CEDAR) program.

**Dr. Urbina Assistant Professor of Electronics and Computer Engineering Technology at UALR, and J. V., Finley, C., and Seifert, C., undergraduate students in ECET Program are the investigators in this project.**

**New England Section**

The ASEE New England Section 2005 Annual Conference will be hosted by Fairfield University in Fairfield, CT, April 8-9, 2005. The theme of this meeting will be *The Value of Engineering Education and Practice*. Several events are planned around this theme, including a panel discussion with academic and industrial engineers. Original R&D papers will be delivered, a student paper competition will be held, and the ASEE New England Section will sponsor the Outstanding Teacher award. The conference banquet will take place on Friday evening, April 8. Proceedings will be distributed on CD.

The New England Section Conference was held at Fairfield University in Fairfield Connecticut on April 8-9, 2005. As usual, there was great attendance and with participation from students representing institutions from all over the New England Section area. Many fine papers were also presented at this conference.

**Summary:**

By the activities reported for this reporting period it can be seen that there were responses from only 5 of the 12 sections. In my opinion, this is a very poor showing. More institutions need to participate and not be complacent.

I find it a real stretch of the imagination that there were “actually” no activities going on at any of the institutions within the non-reporting regions. I really doubt if they are not interested in their own promotion, but it seems that they are passing up a great opportunity to be heard nationally.

Respectfully submitted,

Jerome Tapper, Northeastern University, Boston, MA