

**ETD Section Activities Report
June 2006**

**Jerome Tapper
Northeastern University
Boston, MA**

Northeastern University – School of Engineering Technology, Boston, Massachusetts

To: Ronald Rockland, ETD Chair
From: Jerome Tapper
Subject: ETD Section Activities Report

June 18, 2006

Ron,

In preparation for the ETD section activities report to be given at the 2006 ASEE annual conference in Chicago, Illinois, please find enclosed a copy of the activities material I have received to this point in time as of the last meeting, the ASEE/CIEC Conference in San Antonio, Texas in February

This particular report is very encouraging in that there were 9 of the 12 Sections reporting activities. It is really great to see that there are folks out there who are interested in spending the time to help promote their interests and those of ETD.

College of Engineering
School of Engineering Technology

Electrical Engineering Technology

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As you know, it was decided at our last board meeting to change the format for section activities to a smaller, more friendlier format. This format is best described as a quickie one or two sentence activities description-teaser in addition to a web-site address to allow readers to get a more in depth view of the activities of the person or persons at the particular institution submitting the materials. Although some of the data provided is somewhat lengthy, I feel that in coming announcements, folks will become better at providing smaller descriptive information bites.

I want to thank all of those who responded with section activities events and information. Keep up the good work!

Best regards,

Jerry Tapper

CALL FOR SECTION ACTIVITIES

E-MAIL POSTING

Colleagues,

The June ASEE National Conference is getting "Real Close" - only weeks away.. Now is the time to send me info related to your own or your institution's activities.

PLEASE DO IT NOW!!!!

This is my [third call](#) for section activities since the February CIEC meeting. At that meeting, the ETD board has decided, in an attempt to expedite the collection of section activities, to collect this information in a much simpler way. It will now be done as follows:

If you have any information about your school or any activity you would like to promote involving you, your students, your school, or the section you are in, please send me a one or two sentence (MAX) quickie description of that activity along with a web site address where more info might be found as related to this activity. It's that simple. Keep in mind that this short description method was created to make it easier for you to get materials to me and then in turn to the rest of the ETD world.

Thank you and I look forward to hearing from you all..
Best regards,

J. Tapper

The following ACTIVITIES material was received:

ASEE St. Lawrence Section

Item #1

Subject: RE: Section Activities & News
Date: Tue, 21 Mar 2006 20:43:48 -0500
Thread-Topic: Section Activities & News
From: "Mark Indelicato" <mjiiee@rit.edu>
To: <jtapper1@comcast.net>

Jerome,

RIT is holding a VoIP Symposium on May 5, 2006. There will be keynote and guest speakers from industry leaders in the field of converged networks as well as technical sessions and vendor booths. More information can be found at:

<http://www.casci.rit.edu/voip/index.html>

Item #2

From: "Peggie Weeks" <peggie.weeks@adelphia.net>
To: <jtapper1@comcast.net>
Subject: RE: Section Activities & News
Date: Tue, 21 Mar 2006 15:22:43 -0500

The New York State Professional Development Collaborative is a National Science Foundation funded consortium of 3 community colleges, a state university, and a private university. Our mission is to provide rich, engaging professional development opportunities to technology teachers throughout the state of New York. Our website: www.hofstra.edu/nyspcd

ASEE St. New England Section

Item #1

From: "Devdas Shetty" <shetty@hartford.edu>
To: <jtapper1@comcast.net>
Subject: RE: ETD Section Activities
Date: Fri, 5 May 2006 18:12:49 -0400

Prof. Tapper,

I have the following information from the University of Hartford.
Regards

D. Shetty

The Engineering Applications Center at the College of Engineering, Technology and Architecture (CETA) at the University of Hartford has strong relationship and affiliate structure with business and industry. Using an affiliation model, it carries out 45-50 projects annually. Companies that have used University of Hartford expertise through the Center include Pratt & Whitney, Hamilton Sundstrand, United Technology Research Center, OTIS Elevators, Sikorsky Aircraft, Carrier Corporation, Westinghouse, Wiremold Company, Gerber Systems, LEGO, General Electric Company, Jacobs, Loctite Corporation, Stanley Works, Kaman Aerospace. Well-established academic and research programs exist in mechatronics, measurement and product design, laser applications, laser-materials interaction, and surface diagnostics and measurement. This work has resulted in publications; patents and technology transfer to industries. Research programs

also exist in biomedical engineering, energy conservation, environmental engineering, acoustics, signal processing, neural network and design for manufacturing.

Item#2

Subject: ETD Section Activities

Thread-Topic: ETD Section Activities

From: "Simoneau, Robert" <rsimonea@keene.edu>

To: <jtapper1@comcast.net>

The NSF funded College of Technology Regional Center for Next Generation Manufacturing is hosting a regional two-day symposium on next generation manufacturing at the CT Convention Center in Hartford, CT on May 17th and 18th. The event is open to the general public from 2 to 4 on May 17th and from 2 to 7pm on May 18th.

Please go to www.nextgenmfg.org for more information

Thanks Jerome!

ASEE Middle Atlantic Section

Item #1

X-Envelope-From: noreply@middlesexcc.edu

Date: Tue, 9 May 2006 15:09:15 -0400 (EDT)

From: noreply@njcate.org

To: jtapper@coe.neu.edu

Subject: Conference Announcement: Advancing Innovations 2006



Advancing Innovations in Engineering Technology: Ideas for a New Age

Inspiring Creativity, Exploring Emerging Technologies, Attracting Students, and Marketing ET, Some of the Key Issues Examined at Joint Conference of ATE Resource Centers

Conference Website: www.njcate.org/advancinginnovations

NJCATE, A National Center for Advanced Technological Education and **NCME**, the National Center for Manufacturing Education, and **MATEC**, Maricopa Advanced Technological Education Center, with support from the **National Science Foundation**

Item #2

Subject: RE: ETD Section Activities
Date: Mon, 8 May 2006 17:42:35 -0400
Thread-Topic: ETD Section Activities
From: "Chatman, Lawrence" <LChatman@camdencc.edu>
To: <jtapper1@comcast.net>

Jerome,
Our College has two major initiatives involving Engineering:

1. K-12 initiative to promote National Engineers' Week. High School students in our county participate in a competition to build a Trebuchet to accurately deliver a bean bag to a target. Approximately 200 students participate in this event.
2. The College has participated in the SAE-sponsored Mini-Baja competition during the last two years. Each year the College has successfully designed and fabricated a vehicle that competed with those built by Colleges of Engineering with access to much greater resources. This is an interdisciplinary event with Engineering Science and Engineering Technology students participating.

Lawrence Chatman
Coordinator, Engineering Programs
Camden County College
P.O. Box 200
Blackwood, NJ 08012
856-227-7200 ext. 4523

ASEE Illinois-Indiana Section

Item #1

Subject: RE: ETD Section Activities
Date: Fri, 5 May 2006 12:59:04 -0400
Thread-Topic: ETD Section Activities
From: "Herrick, Robert J" <rherrick@purdue.edu>
To: <jtapper1@comcast.net>

Hi, Jerry. Here's an item for you. Not sure if I sent it to you before or not

Bob

Robert J. Herrick and J. Michael Jacob have been invited and are presenting "The Art and Technology of Teaching Workshop" at the 2006 IEE Irish Signals and Systems Conference in Dublin, Ireland on June 28, 2006. Professor Herrick is the ECET Department Head at Purdue University and the Robert A. Hoffer Distinguished Professor of EET. Professor J. Michael Jacob is the George W. McNelly Professor of Technology at Purdue University.

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Robert J. Herrick
ECET Department Head
The Robert A. Hoffer Distinguished Professor of EET
Purdue University
401 N. Grant St.
West Lafayette, IN 47907-2021
Email: rherrick@purdue.edu
Voice: 765-494-7484
Fax: 765-496-1354
=====

Item #2

From: krennels@iupui.edu
Subject: ETD Section News
Date: Mon, 1 May 2006 13:59:07 -0400
Thread-Topic: ETD Section News
From: "Rennels, Kenneth E" <krennels@iupui.edu>
To: <jtapper@coe.neu.edu>
Cc: "Fox, Patricia S" <psfox@iupui.edu>

Jerome,

Following are current ET activities at IUPUI.

Thanks,

Ken

IUPUI Engineering Technology Activities

GO GREEN

For the fourth year, the Purdue School of Engineering and Technology, IUPUI is offering a multidisciplinary short study abroad course titled "GO GREEN" which stands for Green Organizations: Global Responsibility for Environmental and Economic Necessity. This three credit hour course uses German businesses and industries to demonstrate sustainable development, globalization, and German culture to engineering and technology students. No German language skills are needed to take the course. Undergraduate students can earn another three credit hours by conducting research on a sustainable topic in Germany with a German mentor after completing the GO GREEN course. Students are eligible to apply for undergraduate research funds to assist with funding needs. More information about GO GREEN can be found at www.engr.iupui.edu/gogreen/.

Motorsports Engineering Technology Certificate

The Mechanical Engineering Technology Department is pleased to announce a new certificate program with a focus on motorsports. The motorsports industry in central Indiana is a competitive economic cluster with more than 400 motorsports related companies; up to 8,800 individuals working full time in jobs directly related to motorsports; and a total estimated motorsports-related wages of more than \$425 million annually. This 26 credit hour certificate is configured to enhance the engineering skill of individuals interested in or involved in the motorsports industry and taken as a stand alone certificate or can easily be integrated into the B.S. program. Major topics in the curriculum include an introductory course covering careers in the motorsports industry; courses in mechanics, thermodynamics and automotive engineering; and a required project focused at an automotive related topic.

Computer Graphics Technology Study Abroad

The Computer Graphics Technology (CGT) program sponsors Study Abroad opportunities for students who wish to participate in internships at 2 different Polish universities. Up to 6 credit hours may be earned in this post-secondary technical teaching experience. Student interns participate daily as laboratory tutors, conduct technical demonstration sessions, lead question and answer sessions, and team-teach with professors in the month long program. Students selected to participate in this program are required to attend cultural orientation seminars prior to their departure. While a knowledge of Polish is not needed in this program, Polish language lessons are available free of charge to all participants prior to the internship.

Professor Ken Rennels, P.E.
Associate Dean for Undergraduate Programs
Purdue School of Engineering and Technology, IUPUI
799 West Michigan Street, ET 215B
Indianapolis, IN 46202
317.274.0829 (voice)
317.274.4567 (fax)
krennels@iupui.edu

Item #3

Subject: RE: Section Activities & News
Date: Tue, 21 Mar 2006 14:35:47 -0500
Topic: Section Activities & News
From: "O' Hair, Michael T" <mtohair@purdue.edu>
To: <jtapper1@comcast.net>

Jerome,

The Purdue College of Technology received a national award.

Project Lead the Way Indiana receives national award

WEST LAFAYETTE, Ind. – A national educational program has honored Purdue and the state of Indiana for working together to address the shortage of U.S. engineering and engineering technology students. The national award recognizes the [Indiana State Partnership of Project Lead the Way](#), administered by the Purdue College of Technology and the state's Department of Education and Department of Workforce Development. Project Lead the Way seeks to increase the number and quality of engineers and engineering technologists in the United States through collaborations among K-12 education, higher education and industry. Program participants, who often are enrolled in college preparatory math and science classes, are introduced to the rigors of the engineering field through hands-on projects such as computer-aided design, robotics, electronics and engineering design.

Educators and employers have identified a pressing need for programs like Project Lead the Way.

According to the American Association of Engineering Societies, the number of collegebound students who planned to study engineering declined by more than 30 percent between 1992 and 2002. The number of U.S. engineering graduates also declined by 20 percent to fewer than 60,000. At the same time, more than half of the U.S. work force in these engineering-related disciplines is approaching retirement. If current trends continue, by 2010 more than 90 percent of the world's scientists and engineers will live in Asia. Michael T. O'Hair, the associate dean for statewide technology and engagement who oversees Purdue's Project Lead the Way involvement, said the program is but one of several examples of how Purdue works with the state to increase the number of students who study science, technology, engineering and math. "This is a partnership that reaps great benefits for both Purdue and the state of Indiana," O'Hair said. "Programs like Project Lead the Way are demonstrated to be highly successful in getting students interested in math and science at an early age. Students with high-tech skills secure good paying jobs, which benefit the economy." Ronald L. Stiver, Department of Workforce Development commissioner, said the state considers Project Lead the Way to be a sound investment in Indiana's future. "We are committed to ensuring that every Hoosier has access to the education and training programs that will give them the knowledge, experience and confidence to build better careers, lives and communities," Stiver said. "We are equally committed to ensuring our state's employers have access to the world's premier work force and innovative programs. Project Lead the Way is a fantastic program that helps us meet both goals." Project Lead the Way reaches more than 14,000 students each year in 135 middle and high schools throughout Indiana, which leads all other states except New York in student participation. Suellen Reed, Indiana superintendent of public instruction, said she would like to see the program grow even more. "We have heard nothing but praise for this program, and Indiana schools have done a wonderful job of encouraging student participation," Reed said. "This program is a great opportunity for students and schools, and we would like to see more schools across the state take advantage of the curriculum. We also would like to encourage more involvement from businesses and see more engineers work with our schools." Niel Tebbano, vice president of Project Lead The Way, said, "The state of Indiana has built a model partnership that is unique in this country. The Indiana partnership is recognized for its selfless and effective approach to working collaboratively for the benefit of its students and the state's continued prosperity. It is a model for the nation."

Project Lead the Way operates in 44 states. Purdue is among 24 state universities that administer the program for their respective states.

Writer: Marydell Forbes (765) 496-7704, mforbes@purdue.edu

Sources: Michael O'Hair, (765) 494-2554, mtohair@purdue.edu

Joe DiLaura, Department of Workforce Development press secretary, (317) 232-3396, jdilaura@dwd.in.gov

Mary Jane Michalak, Department of Education press secretary, (317) 232-6616, michalak@doe.state.in.us

Niel Tebbano, (518) 877-6491, ntebbano@pltw.org

Purdue News Service: (765) 494-2096; purduenews@purdue.edu

Item #4

Subject: RE: Section Activities & News
Date: Tue, 21 Mar 2006 14:35:50 -0500
Thread-Topic: Section Activities & News
From: "Herrick, Robert J" <rherrick@purdue.edu>
To: <jtapper1@comcast.net>
Cc: "Jacob, James M" <jacobm@purdue.edu>

Hi, Jerry,

News.

Professors Bob Herrick and Mike Jacob have been invited and are being sponsored by the IEE Irish Signals and Systems Conference to do a 2-day workshop on the "Art and Technology of Teaching" in Dublin, Ireland at the end of June. Bob Herrick is the Robert A. Hoffer Distinguished Professor of Electrical Engineering Technology and Mike Jacob is the named George W. McNelly Professor of Technology from Purdue University.

Hope this is newsworthy.

Thanks,
Bob

=====
Robert J. Herrick
ECET Department Head
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ASEE Mid-West Section

NO DATA PROVIDED

ASEE North Mid-West Section

Item #1

Date: Mon, 01 May 2006 14:41:57 -0500
From: Pecen <r.pecen@uni.edu>
Subject: Third call for EngTechDivision Activities Info
To: jtapper1@comcast.net
Cc: "Dr. M F Fahmy Head " <Mohammed.Fahmy@uni.edu>

Hello Dr. Tapper,

Here at the University of Northern Iowa (UNI), Cedar Falls:
We have been working on (1) Solar Electric Boat (eBoat) Design and Development for brighter Iowa Lakes and Rivers, please check project website for more info: <http://www.cns.uni.edu/eboat> web site is just updated recently.

(2) Design and Implementation of 5 kW Wind-Solar-Hydro Renewable Energy Station in a state park- Hickory Hills Park to provide green electricity to park cabins and RV outlets. A web site is being established. I would provide the URL address soon!

Both projects included state grants, private grants, and local sponsors, "excellent PR for the Engineering Technology in Cedar Valley, Iowa area" more than 30 undergraduate and 2 graduate students in the last 3 years and turned out to be excellent engineering technology applied research in alternative energy areas. Both projects were part of the required Senior design I and II classes at the Electrical and Information Engineering Technology major in the Department of Industrial Technology at UNI.

<http://www.uni.edu/indtech/eiet>

I am also including a brochure showing our other Eng Tech projects here at UNI. Let me know if you have any question. Thank you,

R. Pecen

Recayi Pecen, Ph.D., Associate Professor & Coordinator

University of Northern Iowa Department of Industrial Technology

Electrical & Information Engineering Technology ITC 39 Cedar Falls Iowa 50614-0178 V. (319)273-2598

F.(319)273-5818 e-mail: pecen@uni.edu

<http://www.uni.edu/~pecen> or <http://www.uni.edu/indtech/eiet> Solar Boats for brighter Iowa lakes & rivers <http://www.cns.uni.edu/eboat>

ASEE Gulf Southwest Section

Item #1

Subject: RE: Section Activities & News

Date: Tue, 21 Mar 2006 14:35:32 -0600

Thread-Topic: Section Activities & News

From: "Franz, Harry" <FranzH@uhd.edu>

To: <jtapper1@comcast.net>

The University of Houston Downtown(UHD) has an excellent Safety and Fire Engineering Technology program.

The students have built fire alarm system trainer boards through the use of conventional hardware, programmable logic , and LabVIEW software. The opportunities for employment of the program graduates is excellent.

Contact Prof. Franz, P.E. at franzh@uhd.edu

ASEE Southeastern Section

NO DATA PROVIDED

ASEE North Central Section

Item #1

To: jtapper1@comcast.net

Subject: Re: Section Activities & News

From: GaryOvans@ferris.edu

Date: Tue, 21 Mar 2006 14:43:01 -0500

Ferris State University industry collaboration. Amerikam Inc. of Grand Rapids, MI supplies part specifications, with order quantities stated at 3 different levels. Manufacturing Engineering Technology students in the winter semester of their junior year process the parts and present process/quality/manufacturing cost estimate solutions to Amerikam personnel. This requires the development of extensive

process, quality (AIAG/QS-9000), and cost estimate documentation that is provided in portfolio form. The Manufacturing teams defend their solution, and the team with the best solution is recognized.
<http://www.ferris.edu/htmls/colleges/technolo/mfgt/mfget/photos/Amerikam.html>

Gary L. Ovans, Dept. Chair, Manufacturing Dept.
Ferris State University
Swan 108
915 Campus Dr.
Big Rapids, MI 49307-2291
Ph.: 231 591-2971
FAX: 231 591-2407

Item #2

Date: Fri, 05 May 2006 11:02:44 -0400
From: Harvey Lyons <hlyons@emich.edu>
Subject: Re: ETD Section Activities
To: jtapper1@comcast.net

I researched the current and future practices in engineering programs and will present my findings at the June ASEE meetings in Chicago. Those practices will undoubtedly influence equivalent changes in engineering technology programs.

Harvey Lyons, Ph.D., P.E.
Associate Professor
Mechanical Engineering Technology
School of Engineering Technology

ASEE Pacific Southwest Section

Item #1

From: Fred Julian <fjulian@sdccd.edu>
To: "jtapper1@comcast.net" <jtapper1@comcast.net>

San Diego City College students plan to enter this year's Autonomous Underwater Vehicle (AUV) contest with Team Pacific Nautilus.

They have been supported, in part, by Seabotix <http://www.seabotix.com/>, the Center for Applied Competitive Technologies (CACT) <http://www.cact-sd.org/CACT-SD/cact-sd.html>, the School of math, engineering and technologies <http://www.sdcc.edu/academic/Engineering/default.asp> and their own hard work and effort.

ASEE Pacific Northwest Section

Item #1

Subject: RE: Section Activities & News
Date: Thu, 23 Mar 2006 15:41:00 -0800
From: "Marilyn Dyrud" <Marilyn.Dyrud@oit.edu>
To: <jtapper1@comcast.net>

Hi, Jerry. OIT is hosting the Pacific Northwest Section meeting this year, scheduled for May 11-13. Our keynote speaker is Gerald Galloway, from the ASCE committee on policy 465. And, so far, we are doing well with collecting abstracts for presentations.

I hope three sentences are okay. :-)

Marilyn Dyrud

ASEE Rocky Mountain Section

NO DATA PROVIDED