

**ETD Section Activities Report
January 2004**

**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

January 15, 2004

Carol,

In preparation for the ETD section activities report to be given at the 2004 CIEC Conference in Biloxi, Mississippi, I recruited ETD activities representatives (data collecting agents) from all 12 ETD regional sections. I understand that it has been some time(years) since this many folks have been involved. Over the past several months, I have had all of these folks send out requests for activities information from their colleagues in their respective regional sections. A standard “request letter” has been designed and used for this purpose. It outlines all of the possible activity that ETD colleagues would be interested in hearing. The following is a current list of the activities as reported to me as of the last ETD meeting in Nashville.

College of Engineering
School of Engineering Technology

Electrical Engineering Technology

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Associate Academic Specialist

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E-mail:
jtapper@coe.neu.edu

Best regards,

Jerry Tapper

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

The following ACTIVITIES material was received:

ASEE St. Lawrence Section

John Stratton

ITEM -1

John,

Our NSF-funded ABET Technological Education Initiative (TEI) Workshops are being delivered across the country. We've conducted 8 workshops so far (in South Carolina, Washington, Indiana, New Jersey, Wisconsin, Arizona, Missouri and Pennsylvania) and plan at least 4 more in the coming year. We've had over 450 faculty attend the first 8 workshops, representing over 260 2- and 4-year institutions. A fact sheet is attached & provides further information.

Thanks, John!

Best regards,

Peggie

Peggie Weeks
Adjunct Program Manager
ABET, Inc.
607-292-6116

ITEM - 2

Professor Stratton –

Please use whatever news from *Alfred State College* you think appropriate for your newsletter.

Carol Melnyk (for Doug Barber)
Dean's Secretary
School of Management & Engr. Technology
Alfred State College

On September 20, 2003, William Dean, AIA, Assistant Professor in the Department of Computer Imaging and Architectural Engineering Technology and 23 seniors in the BS Architectural Technology program, participated in the "South Clinton Design Charrette" at the Baber A.M.E. Family Life Center in Rochester, New York. The event included short lectures by the chair of the American Institute of Architects Urban Design Committee, The Director of Zoning for the City of Rochester and local historians. The students were divided into groups that also included professional facilitators and other community representatives and were charged with exploring design opportunities for different parts of South Clinton Avenue and presenting their work to the entire group. On September 24, 2003, Assistant Professors Michael Chisamore and Alissa De Wit-Paul of the CIAET department gave the presentation "Industrial Design and the Education of an Architect" to attendees of the Rochester Tooling and Machining Association's annual convention. The presentation discussed the role of including industrial design building types in educational project scenarios. In fall 2002 the CIAET Architecture Program Studio I course asked the students to design a new production line for Rocon Manufacturing in Rochester, New York. This project was the basis for the discussion. Students Hillary Geiger and Melissa Zeh presented their solutions to the problems the project posed.

Dr Edward G. Tezak, Professor of Mechanical Engineering Technology, traveled to Rhodes State College in Lima, OH, November 1-4, 2003. Prof Tezak was the American Society of Mechanical Engineers, ASME, representative on the TAC/ABET evaluation team for a re-accreditation of the Rhodes MET AAS Program.

Dr. Ill-Seok, Civil Engineering Technology Department, had had two papers accepted for presentation and publication. His paper entitled "A Really Simple Performance Test" will be presented at the 2004 Annual Meeting and Technical Sessions of the Association of Asphalt Paving Technologist (AAPT) in Baton Rouge, LA, in March 8 - 10, 2004. The paper, "A Rapid Performance Test for Superpave Mixtures" will be presented at the International Symposium on Design and Construction of Long Lasting Asphalt Pavement (International Society of Asphalt Pavement) in Auburn, AL, in June 2004.

Dr. Karl Klee was recently chosen to be on a 10-member international ACM Task Force charged with assembling resources to support the use of the Java language in introductory computer science courses. The 18-month project is chaired by Eric Roberts,

Professor of Computer Science at Stanford University and is funded by matching grants from NSF and SIGCSE (ACM Special Interest Group on Computer Science Education). A final report is expected to be published in June 2005.

Professor Edward G. Tezak attended the Semi-Annual New York State Engineering Technology Association, NYSETA, Conference in New York City and Brooklyn on November 6-7, 2003, hosted by the New York City College of Technology. Dr Tezak serves on the Executive Committee of the ETA. Highlights included the Plenary Session by Professor Anthony Cioffi on "Project ExCEED" (Excellence in Civil Engineering Education), which is being expanded to other than the civil discipline. Also the group was escorted on a tour of Ground Zero at the World Trade Center. Alfred State is tentatively scheduled to host the ETA Conference in Fall 2006. In addition to the ETA Conference Dr Tezak attended the Nov 6, 2003, meeting of the Council for Engineering Technology of New York State, CETNYS, where he serves as the Secretary /Treasurer.

Professor Karl Klee, Information Technology, was one of three panelists for a presentation at the Fall 2003 NCATC Conference (National Coalition of Advanced Technology Centers) that was held October 2, 2003 in Portland, OR. The presentation dealt with Cybersecurity curricula at two-year colleges. Karl also was one of three facilitators at a roundtable discussion on the state of Cybersecurity curricula at two-year colleges. The session was held in conjunction with the NSF/AACC ATE National PI Conference held October 22-24, 2003 in Washington, DC. Invited participants were from NSF, Department of Defense, and select two-year colleges nationwide.

Professors Nick Reitter, Dave Hunt, Chris Tomasi, Mark Hardy, and Timothy Cochran traveled to SUNY Oswego for the 64th Annual New York State Technology Educators Association meeting on October 30 and 31. Dave and Mark presented a hands-on workshop on a network cable tester where Technology Teachers learned the electronic theory, assembled, and tested this project. WINS Club had its 11th Annual Women in the Field dinner on Wednesday, October 30. Cindy Mead Gotobed from Rochester, a 1995 graduate from AET, Jessica Boria from Hornell, industrial engineer at Alstom, Kathleen Engstrom from Avon, Registered Architect, and Dr. Gupta spoke of their work experiences and gave very helpful advice about school, career, and life. On October 17, several SMET faculty made presentations to 10th grade Allegany county girls during the "WINS Futurebound" program. Professor Timothy Cochran gave a presentation on energy and power entitled "What's a Watt?"

Dr. John Williams, Chair MET, and Craig Clark, Dean of Applied Technology, attended an award ceremony on October 25. The ceremony was part of the Society of Manufacturing Engineers Region Four meeting in London, Ontario. A ceremonial check was presented for \$255,478, the amount of the recently received SME Educational Program grant to develop and start the new Manufacturing Technology BT degree in MET.

On October 2-4, Professor Joy Carlson, Computing Imaging and Architectural Engineering Technology, attended the AIA NYS Conference.

She participated in several sessions including Existing Building Provisions in the 2002 NYS Codes, Working Your Way though the NYS Green Building Tax Program, Copper in Architecture, Moisture and Mold Control, CSI Trade Show, Code Provisions for Existing and Historic Buildings, Calculating Occupant Loads in A2 Assembly Space, and Landmark Revitalization: the Palace Theater in Albany. Joy received 16.5 continuing education credits, mostly in Health Safety and Welfare of which the state requires 12 for yearly licensure maintenance.

Dr. Il-Seok Oh, Civil Engineering Technology, attended the 5th Annual Fall Meeting of the NY Construction Materials Association in Albany, NY, on November 12 - 14, 2003.

Doug Barber, Dean SMET, and Dr. John Williams, Chair MET, attended the Engineering Technology Leadership Institute (ETLI) at Arizona State University in Mesa, Arizona from October 18 through October 21. The institute is a national forum to bring the community involved in two-year and four-year engineering technology education together to address issues and challenges of common interest.

ITEM - 3

Jerry,
This is a report from St. Lawrence Section.
The new chair is William Leonard from RIT, an MET faculty member. He takes office in June. The new vice-chair is from Cornell. We had no-one willing to be secretary or treasurer.
The meeting at Queens University in Kingston, ONT was a large success. We had about 50 delegates, 10 students and 20 guests. Many of the papers were from ET folks in the US, many from Canadian schools and many from US engineering schools. We had hoped to go to SUNYIT in Utica next year, but they are not able to have us. We are searching for a host university.
Thanks for your work,
John Stratton

ITEM – 4

St. Lawrence Section Members:

The Section meeting at Queens University was very rewarding. The topics of the papers were excellent, the student papers were very good, and the keynote speakers were both of excellent quality. Many thanks to Barrie Jackson and the Queens University hosts for a very well done meeting.

Congratulations to Prof. William Leonard from the Rochester Institute of Technology for being elected section chair and to Prof. David I. Schwartz from Cornell University for being elected section vice-chair. We are still looking for volunteers for the offices of secretary and treasurer. We hope that at least one member from Canada will come forward to accept either or both of these posts. A USA volunteer would also be very welcome.

We are also looking for hosts for the next several meetings. The next meeting should be in the fall of 2004 or the spring of 2005. Dean's, please volunteer your university!

It is hoped that we can have a zone meeting in the next 3 or 4 years. Are there any institutions willing to host a meeting of 200 to 250 attendees?

We will have a newsletter in a few weeks, with more details.

John Stratton

ITEM - 5

The fall meeting of the ASEE St. Lawrence Section will be held at Queens University in Kingston, Ontario on October 24 and 25, 2003. This will be an exciting meeting, with several announcements from Barrie Jackson, the organizer.

Barrie says that quite a few abstracts have already been submitted and they look very interesting.

Barrie e-mailed that he is quite excited about that he has lined up Tim Patterson from Carleton University as a dinner speaker. Dr. Tim Patterson, a professor in the Department of Earth Sciences at Carleton University, specializes in Paleoclimatology.

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Tim is a most entertaining speaker and his message is quite topical, simply that there is such an enormous amount of uncertainty in the who issue of climate that rushing into horrendously expensive bumper sticker CO2 solutions are probably not warranted.

We have extended the date for abstracts for members until September 1, 2003, and for students until October 1, 2003.

Please plan to submit an abstract if you can, and by all means attend the meeting.

Further information can be found at the website:

<http://appsci.queensu.ca/asee/>

John Stratton, Section Chair

ASEE New England Section

Jerome Tapper

ITEM - 1

The New England Section will hold its annual conference at Northeastern University in Boston on April 2-3. It is expected to be an exceptional local conference with excellent speakers, superior colleague papers and wonderful student papers. All are urged to attend this event. For more information, please contact either Walter Buchan or myself. See you in Boston...

ITEM -2

CAD Camp 2003 was another success! We're already preparing for CAD Camp 2004! If you link your web page to CAD Camp we ask you to please update the address:

<http://www.umaine.edu/ofm/cjdirectory/CADCAMP/Camp2004.htm>

Of course you're welcome to take a look at what's posted for next year.

Karen

Karen J. Horton, P.E.
Assistant Professor, Mechanical Engineering Technology
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University of Maine, Orono ME 04469-5711
(207) 581-2136 karen.horton@umit.maine.edu

ASEE Middle Atlantic Section

Lawrence Fryda
Venancio fuentes

ITEM -1

Raymond Spilsbury III, Clinton Community College
136 Clinton Point Drive
Plattsburgh, NY 12901

We are hosting an exhibition of the history of women in engineering. This exhibition will be here February, March, and April. In addition we are hoisting the regional Math Counts Contest, a meeting of the Society of Women Engineers. I would welcome the possibility of hosting a meeting during Engineers week 22-28 Feb, possibly one or more chapters in the northern areas on NY and VT are interested. See the attached power point presentation.

ITEM - 2

Dear Colleague

The ASEE Mid Atlantic section spring conference at RVCC is approaching and preparations for it are well underway. Since we know it is a busy time of year (end of the semester, final examinations, and perhaps Christmas shopping), the deadline for the submission of abstracts has been extended to January 15.

You will soon receive a tentative program with all the necessary information regarding registration, directions & accommodations. The program for the conference is shaping up as follows:

A Friday afternoon workshop on the two-year to four year connection will be organized by Professor Jack Waintraub, Chairperson of Electrical Engineering Technology at Middlesex County College.

On Friday evening, the guest speaker will be Dr. Andrew Jackson, Senior Scientific Advisor and Section Head of Advanced Lube Sciences, Corporate Strategic Research, at Exxon Mobil Research and Engineering in Annandale, NJ.

Saturday morning's keynote speaker will be Professor David Billington, Professor and Gordon Y.S. Wu Professor of Engineering in the Department of Civil and Environmental Engineering at Princeton University and a 2003 recipient of the NSF Director's Award for Distinguished Teaching Scholars. Professor Billington will also conduct a seminar on his plans to develop teaching materials for beginning engineering students for which he won this award.

The Saturday lunch Guest speaker will be Dr. Robert Altenkirch, the new President of the New Jersey Institute of Technology. Dr. Altenkirch is the Author of over 50 publications and nearly 100 presentations in combustion and heat transfer and served as principal investigator for ten Space Shuttle experiments investigating the spread of fire in reduced gravity. He is a Fellow of the American Society of Mechanical Engineers.

The remainder of the program will consist of parallel sessions of presentations from various participants.

On Saturday there will also be special programs for spouses.

Have a happy holiday season and a happy New Year.

Sincerely,

Osman Ahmed, Ph.D. Professor of Engineering.

Conference Co-Chair

ASEE Mid Atlantic Section Spring 2004 Conference

Raritan Valley Community College
North Branch, New Jersey 08876
April 23 - 24, 2004

Call for Papers

Engineering Student Retention in the 21st Century in Both Community and Four Year Colleges

Abstracts are requested on topics related to engineering and engineering technology education. The format of the conference will consist of technical sessions for presentation of papers, workshops, and a keynote speaker. In accordance with the conference theme, abstracts related to the following topic areas are requested:

Pathways to better learning and success

Understanding and strengthening the first year engineering curriculum

Participation of K-12 Teachers of Math & Science in college settings

Dual admission and transfer programs

What employers want engineering students to know?

Distance education for undergraduate engineering

Ethics & social responsibility in Engineering & Technology

Gender differences in preparation for engineering education

The role of research in the physical sciences at undergraduate institutions

Aligning curriculum goals and students aspirations

Models for undergraduate retention

Partnerships between two-year colleges and four-year colleges

Abstracts and papers should be submitted via email in MS Word format. Abstracts should be 500 words or less. After peer review, authors will be notified of acceptance and invited to submit a full paper to be included in the proceedings. Abstract

Submission Deadline: January 15, 2004.

Email Submission: dwalke@raritanval.edu

Conference Co-chair: Professor D. Walke: (908) 526-1200 ext. 8420

The Department Web page may be found at <http://www.raritanval.edu/departments/Science/index.html>

ITEM – 3

From: Michael Hacker [<mailto:mhacker@nycap.rr.com>]

Sent: Monday, November 10, 2003 10:12 AM

To: J STRATTON

Cc: MDB; Weeks Peggie; John Jablonksi

Subject: Re: Engineering Technology Activities

Hi John,

Just to let you know that Hofstra University has been the recipient of two NSF grants that advance HS and Community College technology education. The first, New York State Curriculum for Advanced Technological Education (NYSCATE) has developed 13 grades 9-14 five to ten week curriculum modules in areas of bio and chemical technology; materials technology; and information technology. Hofstra has partnered with 3 community/technical colleges: Fulton Montgomery CC; NYC Technical College; and Finger Lakes CC. See [www. NYSCATE.net](http://www.NYSCATE.net)

The second project, the New York State Professional Development Collaborative (NYSPDC) is directed by former NSF Program Officer Peggie Weeks and involves four community colleges: FMCC, Alfred, Dutchess, and Mohawk Valley in a collaboration with the NYS Technology Education Association to provide contemporary professional development to HS technology teachers throughout NYS.

Let me know if you would like further details.

Best regards,

Mike

Michael Hacker, Co-director

The Center for Technological Literacy, Hofstra University, Hempstead, NY 11549-1330, Albany NY Office: 31 Turner Lane
Loudonville, NY 12211

518-434-6783

ITEM -4

October 29, 2003

ETD Colleagues in the Middle Atlantic Section

1)

We are in the process of organizing our second annual Technology Showcase Day at Oakton for March 2004. (Our first event was in May 2003.) This event is an all-day activity which includes high school projects and presentations in

electronic/electromechanical and/or wireless technology.

Majid M. Ghadiri
Electronics & Computer Technologies
Division II
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Des Plaines, IL 60016
Phone:(847) 635-1909
Fax: (847) 635-1691
mghadiri@oakton.edu

2)

The 8th ABET/TEI Regional Faculty Workshop held in Greensburg (Pittsburg suburb), Pa. was attended October 10 - 12, 2003 by Tom McHugh, Chairperson, Broadcast Communications/Journalism and Joe De Santo, Chairperson, Engineering Technology. The TEI workshop motivated by ABET's commitment to improving two-year college technological programs allowed participants to gain insight into developing program objectives and outcome assessment plans needed to monitor continuous improvement in the Technology programs at Luzerne County Community College, Nanticoke, Pa.

3)

New York City College of Technology of the City University of New York will host the Fall 2003 conference of the New York State Engineering Technology Association. The conference will be holding on November 6 and 7, 2003 in Brooklyn, NY.

Dr. Djafar Mynbaev
Associate Professor and Telecommunications Coordinator
Department of Electrical Engineering Technology and Telecommunications
New York City College of Technology
of the City University of New York
300 Jay Street, V-733
Brooklyn, NY 11201
Phone: 718.260.5304
Fax: 718.254.8643

ASEE Illinois/Indiana Section

Michelle Summers
Youakim Kalaani

Activities of Engineering Technology Faculty at
Indiana Purdue University, Fort Wayne, IN (IPFW)
for Calendar Year-2002

Department of Civil and Architectural Engineering Technology:

1. Mathew Kubik, Whitley County, Indiana, Architectural Engineering Design Development Project for Animal Shelter, Spring 2002
2. Mathew Kubik, Indiana University-Purdue University Fort Wayne, Design proposal for Walb Union Cafeteria, Fall 2002
3. Matthew Kubik, Habitat for Humanity, Architectural Engineering Construction I Problem, Spring 2002
4. Dennis J. Marshall, awarded two (2) U.S. Design Copyrights on the development of "three-dimensional labyrinths" that are currently put forward as contemplative memorial structures.
5. Dennis J. Marshall, presented paper to ASEE-IL/IN Sectional Conference on "Professional Development and Service Learning"-April 2002 at Illinois Institute of Technology, Chicago, IL.

Department of Electrical and Computer Engineering Technology:

6. "Lectures for Internet Courses", Hal Broberg and Paul Lin, 2002 American Society for Engineering Education (ASEE) Annual Conference Proceedings [CD-ROM], Montreal, Canada, June 15-19, 2002; also at the nation's online resource http://www.asee.org/conferences/caps/document2/2002-47_Paper.pdf
7. Broberg, "Student Evaluation of On-Line vs. In-Class Technical Courses", presented at the Teaching Online in Higher Education (TOHE) Online Conference, presented online Nov. 2002.
8. Broberg, Author of CD lectures for CS/EET114, EET205, and EET302 Web Courses. Sold in Follett's.
9. Broberg, "EET107/CPET101/EET101 Lab Manual," 76 pages sold in Follett's.

10. Broberg, "EET 152/EET207 Lab Manual," 105 pages sold in Follett's .
11. Broberg and Predina (ITT-Aerospace), United States and European Patents Pending (result of NSF grant): "Tuned Open Loop Switched to Closed Loop Method for Rapid Point-to-Point Movement of a Periodic Motion Control System."
12. "Internet-Based Monitoring and Controls for HVAC Applications," Paul Lin and Hal Broberg, published in IEEE Industry Applications Magazine, Jan/Feb 2002 Issue, pp. 49-54.
13. "Web-based Lab for Distance Learning," Paul Lin, Hal Broberg, and Aik Mon (GE Industrial Systems), 2002 American Society for Engineering Education (ASEE) Annual Conference Proceedings [CD-ROM], Montreal, Canada, June 15-19, 2002; also at the nation's online resource http://www.asee.org/conferences/caps/document2/2002-1758_Paper.pdf.
14. "Developing a Web-Enabled Database System: An Academic Project," Paul Lin, Melissa Lin (University of Florida), and Aik Mon, 2002 ASEE Annual Conference Proceedings [CD-ROM], Montreal, Canada, June 15-19, 2002; also at the nation's online resource http://www.asee.org/conferences/caps/document2/2002-1754_Paper.pdf.
15. Lin and Broberg, "Internet-Based Monitoring and Controls for HVAC Applications," IEEE Industry Applications Magazine, Jan/Feb 02, pp. 49-54.
16. Lin, "Java Applications for C/C++ Programmers", a 272-page course workbook, contains 11 chapters for use in CS 492 and CPET 499 courses, January 2002.
17. Lin, "The Linux/Unix Environment and Applications", a 100-page workbook containing 8 chapters for use in CPET 181 Operating Systems Basics, January 1, 2002.

ASEE North MidWest Section

*Ann Goebel
Gary Godfrey*

NO REPORT

ASEE Gulf SouthWest Section

Mitty Plummer

NO REPORT

ASEE Southeastern Section

*John Blake
Richard Monroe*

NO REPORT

ASEE North Central Section

*Jim Rumpf
Salame Amr*

NO REPORT

ASEE Midwest Section

Aaron Cowin

NO REPORT

ASEE Pacific Northwest Section

*Marilyn Dyrud
Bertin Koala*

NO REPORT

ASEE Pacific Southwest

Scott Danielson

NO REPORT

ASEE Rocky Mountain

Dee Martin

NO REPORT

Summary:

It would appear that there is in deed interest in reporting section activities as seen by the people who have stepped up to the plate and volunteered to be ETD section data collection representatives. As you can see, there is a volunteer from all 12 sections and some with two. By the activities reported for this reporting period it can be seen that responses were received from only 4 of the 12 sections. This is very disheartening in that, as you can see from what was reported, there is a great deal that is going on among the sections listing activities. I know that these listed sections cannot be the only ones in ETD with activities going on.

So, what have I accomplished this past year? On the up-side, I have managed to recruit ETD members from all regional sections of the country -and some with two. One the down side, two-thirds of these folks did not have any activities to report –even with many e-mails coaxing and reminding them to request data from their respective regional colleagues That is SAD! I would very much like to be put on the agenda and speak during our business meeting at the CIEC conference about these issues.

Respectfully submitted,

Jerome Tapper, Northeastern University, Boston, MA