

NEW YORK STATE ENGINEERING TECHNOLOGY ASSOCIATION

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WWW.NYSETA.ORG



Spring 2007 NEWSLETTER

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**The NYSETA Spring '07
Conference at
Niagara County
Community College
March 29th & 30th**



About the Coming Spring 2007 Conference at Niagara County Community College

The NYSETA Spring 2007 conference will be hosted by **Niagara County Community College**, Thursday and Friday, March 29th & 30th, 2007. Lodging will be at the nearby **Comfort Inn - The Pointe Hotel** in Niagara Falls. The hotel is located 400 yards from the foot of Niagara Falls.

The NYSETA Spring 2007 Conference at Niagara County Community College, Thursday and Friday, March 29th & 30th, 2007

Niagara County Community College is centrally located in Niagara County on a beautiful 287-acre rural campus in Sanburn, NY. NCCC has approximately 5,000 students enrolled in over 40 programs of study. Thousands of others take advantage of the College's extensive credit-free courses, short-term vocational programs, as well as many cultural and social events. NCCC plays an active role in economic development as the home of the Niagara Small Business Development Center, a business incubator, the Business Resource Center and the International Trade Resource Center.

Thursday's conference events will be on the Niagara County Community College campus in Sanborn, NY, just northeast of the City of Niagara Falls. Area and regional equipment manufacturers, as well as, text and software publishers will meet with the conferencees in a campus gathering area. Each exhibitor will have a display table with examples of their latest technological offerings and instruction goods.

Plenary Session:

A talk and presentation by **Dr. Wilson Greatbatch**, Inventor & Business Owner.

Dr. Greatbatch, formerly a Professor of Electrical Engineering at the University at Buffalo, is the inventor of the implantable pacemaker. He devoted his post-academic career in establishing a company that develops and manufactures implantable energy sources.

**Comfort Inn - The Pointe Hotel
in Niagara, NY,
is providing hotel rooms at a special
NYSETA rate of
\$65 per night (single or double).
Please call them by March 9th at:
716-284-6835**

Interest Group Sessions

At the time of this newsletter's release, the following Interest Group Sessions have been scheduled. Check the Conference website via the link on the NYSETA web page at

<http://www.nyseta.org/>

for any changes or updates.

Mechanical Engineering Technology Interest Group Sessions

- ***Computational Methods for MET*** - Ti Lin Lu, Professor at the Rochester Institute of Technology. This new course provides a fundamental introduction to computing methods for engineering technology students to produce the quantitative information in their design and analysis.
- ***Tech Wars*** - an event that pits multiple school districts against each other in several technical competitions such as drafting, robotics, and bridge building. NCCC has recently hosted their tenth annual event. The event is



About the Coming Spring 2007 Conference at Niagara County C. C.

Interest Group Sessions - continued

sponsored by "*Tech Prep*" and typically runs a full day.

Civil Engineering Technology Interest Group Sessions

- *The design for the new Public Safety Building* - The architectural firm Cannon Design will present this design for the new Public Safety building to be located in Buffalo.
- *Frank Lloyd Wright's many contributions to the Niagara Frontier region* - To be presented by an expert in the designs of Frank Lloyd Wright will present on his many contributions to the Niagara Frontier region.

Electrical Engineering Technology Interest Group Sessions

- *National Grid's Emergency Response to the October Storm* - A presentation will discuss that storm swept through much of Western New York and left many residents powerless.
- *Code Warrior* - Vincent Kassab of Erie Community College. Code Warrior is a student microcontroller project and the mobile robot project. Earlier presentations focused on Microchip PIC and Intel 8051, and this will provide exposure to the Freescale line of microcontrollers.

Thursday Night Networking Hour and Banquet

The conferencees will have their NYSETA Spring '07 Conference networking hour, and banquet at the Hard Rock Cafe, adjacent to Comfort Inn's The Pointe Hotel. The after-dinner presentation be a talk on the history of the NYSETA, by several of the founding members of our organization.

Friday Business Meeting

The NYSETA Business meeting will be held Friday Morning at Comfort Inn's The Pointe Hotel. A breakfast buffet will be served.

Friday Field Trips:

At this time, the Friday tours tentatively include a trip to the **Chevrolet Engine Plant** in the Town of Tonawanda and a trip to the **Darwin Martin House**, in Buffalo.

For the latest information on scheduled lectures and conference tours, or to download registration forms, driving directions or maps, follow the links to the Conference Website through:

WWW.NYSETA.ORG

Conference Fees

The conference registration fee for NYSETA members is ninety-five dollars (\$95 US) if postmarked by 3/15. The conference registration fee for non-members is one hundred and five dollars (\$105 US), and includes a complementary NYSETA membership for the rest of 2007. The conference fee for members and non-members registering after 3/15, is one hundred and five dollars (\$105 US). Walk-ins are very welcomed. Retired and emeritus NYSETA member can attend for forty-five dollars (\$45 US). A guest to the Thursday night networking hour and meal is forty-five dollars (\$45 US).

For more information or suggestions contact:

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About the Fall 2006 NYSETA Conference held at SUNY Canton

A Great Conference at SUNY Canton!! The NYSETA membership and executive committee would like to thank Conference Chairs Dave Hartle, of Canton's Electrical Engineering Technology Program and Matt Bullwinkel, of Canton's Mechanical Engineering Technology Program. We are also grateful to our patrons and conference exhibitors: Allegheny Educational Systems, Inc., Electronic Workbench, Haas Automation, National Instruments, McGraw-Hill Publishers, Pearson-Prentice Hall Publishers, The Write Source, Inc., and Z-Corporation – Great Lakes Sales.

Welcoming Remarks

The conference participants were greeted by Canton President Joseph Kennedy and David Wells, Dean of the Canino School of Engineering Technology.

The Plenary Session Lecture - "Architecture and LEED Implementation"

The Plenary section lecture was given by Brooks Washburn, an AIA and LEED certified architect.

LEED, the **Leadership in Energy and Environmental Design** Green Building Rating System is the nationally accepted criteria for the design, construction, and operation of high performance green buildings. LEED gives building owners and operators the tools and methodologies they need to evaluate and improve their buildings' "performance." For new buildings, and for refurbishment of existent buildings, LEED addresses the amount of energy and resources consumed, and waste produced during building construction. For new and existent buildings, LEED also addresses the amount of energy and resources, and waste associated operation of the occupied building.

Following the plenary session, interest group sessions were presented as follows: (Lectures marked with * had CEU credit available):

Electrical Interest Group

- *Lab Volt AC/DC Machines Data Acquisition* – Thomas McCusker
- *Teaching Circuits Using Electronics Workbench and the NI ELVIS System* – Evan Robinson, Electronic Workbench
- **3D-Prototyping for Building Design* – Brian Annicharico, C&S Engineers

Mechanical Interest Group

- *HAAS CNC Machining* – Ralph Bottini, Sales Engineer
- *Rapid Prototyping Machines* – Timothy McGrath, 3D prototype specials, Z Corporation
- **Geothermal Heat Pumps*– Hugh Henderson, CDH Energy Corporation

Architectural/Civil Interest Group

- *Bridge Team 2nd Place National Competition*
- **The Hearst Tower* – Ted Totten, Regional Vice President, CIVES Steel Manager Northern Division
- **Application of Geographic Information Systems* – Robert Blickwedehl, Faculty, SUNY Canton

The Evening Banquet & Networking Hour

The evening banquet was held at the Best Western in Canton. The guest speaker, Mr. Sal Pisani, gave a presentation on "The History of the Engineering and Development of the St. Lawrence Seaway".

Field Trip

The Friday Field trip was a tour to the Remington Museum in Ogdensburg.



About the Fall 2006 NYSETA Conference held at SUNY Canton – continued

In Attendance:

We were delighted to have the following individuals in attendance:

Stephen Frempong	SUNY Canton
Kathleen Gallagher	Nassau C. C.
David Hartle	SUNY Canton
Tony Hotchkiss	Buffalo State College
Atlas Hsie	SUNY Inst of Tech
Arthur Hurlbut	SUNY Canton
Naseem Ishaq	SUNY Inst of Tech
Robert Jennings	SUNY Canton
Raymond Jesaitis	SUNY Inst of Tech
Yogendra Jonchhe	Alfred State College
Vincent Kassab	Erie C. C.
Susan Kilgallon	Hudson Valley C. C.
George Kyanka	SUNY-Envir Sci/Forestry
David Lawrence	RIT - NTID
John Longwell	Corning C. Col
Michael Loudis	Morrisville State College
Jeff Marshall	Alfred State College
James Mayrose	Buffalo State College
Daniel Miller	SUNY Canton
Marguerite Newton	Niagara Cnty C. C.
Michael Newtown	SUNY Canton
Mark Oliver	Monroe CC
Peter Pawlik	Buffalo State College
Salahuddin Qazi	SUNY Inst of Tech
Joseph Reilly	SUNY Canton
Mohamed Rezk	SUNY Inst of Tech
Carmine Salvo	SUNY Inst of Tech
Maureen Valentine	Rochester Inst of Tech
Gerald Vance	Alfred State College
Mark Voisinet	Niagara Cnty C. C.
Don Voisinet	Niagara Cnty C. C.
Christie Waters	Cayuga Cnty. C. C.
Dave Wells	SUNY Canton
John Williams	Alfred State College

Once again the officers and members of the NYSETA thank Conference Chairs Dave Hartle, of Matt Bullwinkel of SUNY Canton for a great conference.

The Friday Morning NYSETA Business Meeting

Jayne Baran, NYSETA Secretary

The breakfast business meeting on Friday morning was held at the Best Western Hotel in Canton. The business meeting was called to order at 8:40 am by President John Campbell. John thanked Canton's Chairs Dave Hartle, of Matt Bullwinkel for hosting an excellent conference.

John Campbell reminded everyone that the NYSETA member at large offices and the interest group chairs are up for election in the spring of 2007. Bill Darling has been tasked to investigate how the NYSETA organization can become a CEU/PDH provider instead of having the individual institutions be the providers. The next NYSETA conference will be held on March 29th & 30th, 2007 at Niagara County Community College.

Minutes of the spring 2006 meeting at HVCC were approved with minor revisions. The next deadline for newsletter submissions is February 9th, 2007. Send submissions via e-mail to Michael Loudis Loudismj@morrisville.edu. Mike put together the fall 2006 newsletter, which is now online at <http://www.nyseta.org>. Newsletters will no longer be mailed; instead they will be posted on the web. If you are an institutional representative, consider printing out and distributing hard copies on your campus. The business meeting minutes are now online at <http://www.nyseta.org>

Vice-President Carmine Salvo noted the following schedule for future conferences and asked everyone to consider hosting a future conference.

Spring '07	Niagara County C. C.
Fall '07	Alfred State (11-12 Oct 07)
Spring '08	Open
Fall '08	Open

Carmine Salvo also noted that we have 6 listservs to make communication easier: electrical, mechanical, civil, general, executive board, and institutional representatives. Details can be found in the newsletter.



About the Fall 2006 NYSETA Conference held at SUNY Canton

The Friday Morning NYSETA Business Meeting - continued

Kathleen Gallagher, ETA Treasurer, reported a current balance of \$19,202.92. Of that total, the amount earmarked for the scholarship fund is \$5,431.15. Individual (339) and Institutional Member (42) letters for dues are being sent out this week. Members now have the option of paying the \$10 annual dues on their conference form.

Dave Lawrence, Tony Hotchkiss (for Slade Gellin) and Marguerite Newton summarized the interest group sessions.

Marguerite Newton noted that the scholarship award applications will be coming out in late January. The three main categories are scholarship, leadership and club activity. Provide enough details so that the scholarship committee can make well-informed decisions.

John Campbell discussed an initiative to try and document the history of the NYSETA organization, with a future goal of adding the information online. Retired members will be encouraged to attend the spring 2007 conference and all future conferences.

John Campbell lead a discussion as to whether NYSETA should be providing support letters and/or money for grants, proposals, etc. that might benefit NYSETA members. Currently, our constitution does not have any provision for doing so. Requests have been made in the last couple of years, but without procedures in place for consideration, the requests have been turned down. Carmine Salvo agreed to write a proposed change in bylaws to provide some guidance in considering these requests. Everyone gave thanks to the SUNY Canton crew for a wonderful conference.

The meeting was adjourned at approximately 10:00 am for a tour to the Remington Museum in Ogdensburg.

A Letter from the President, John Campbell

I hope everyone had a great holiday and good start to 2007. The great hockey that the Buffalo Sabres are playing reminds me to see if we can do something interesting at the next conference. By the time the conference takes place the Sabres should be playing playoff hockey and Syracuse University will win the Big East basketball tournament.

The spring conference will be held at Niagara County Community College in April. Marguerite Newton and Mark Voisinet are in the process of planning the conference. Mark can get playoff tickets for our next conference at Niagara in beautiful Buffalo "Sabres" New York! Just kidding you can even get a seat at a regular season game. I hope to see everyone at the next NYSETA Conference on March 29th and 30th. The conference is shaping up nicely. Rumor has it there is going to be some NYSETA members from the past at this conference.

The last conference at SUNY Canton was another first class conference. The plenary session on Green Energy and integrating engineering disciplines in building design is a great way to start a conference. The websites and resources presented with the U.S. Green building council shows the way engineers and technicians are improving our way of life. The conference had many interesting presentations like Hass machining, steel bridge design, electronics workbench, Hearst Tower in NYC, 3D rapid prototyping, geographic information systems, 3D Cad design for building structures, geothermal heat pumps and more. The timely topics and the Canton campus made this conference a nice time for all that attended. I want to thank Matt Bullwinkel, Micheal Newton, and David Hartle and the entire Canton crew for being a gracious host.

Those of you that attended the Remington museum were treated to an excellent tour. For me, the display of the process of producing the bronze castings was my highlight of this tour. Bringing my love of materials and processes combined with art works for me. The artwork and the action Remington captured



A Letter from the President - continued

in paintings, castings, and sketches really captured the Wild West. The classic art works of the Wild West captured by Frederic Remington was worth the trip up near the Canadian border. Please try to attend the Friday tours and explore New York State when you attend the conferences.

I am looking forward to see everyone in Buffalo on March 29th and 30th. Happy belated 50th birthday to Mike Loudis, let's see if he actually edits this out. (Ha!...with my AARP card I can get discounts at McD's – Mike) I would like to thank Mike for the great job he does editing the news letter.

Sincerely,
John Campbell
President, NYSETA

Letter from the Vice President, Carmine Salvo

Our Last Conference: The Fall 2006 Conference was at Canton, NY hosted by SUNY Canton. It is the first time we returned to Canton for a NYSETA Conference in about a decade. Hopefully we will be returning to their beautiful campus sooner next time. Once again we had several activities that carried CEU's for those that need to earn them for their professional licenses. Thanks to Conference Co-chairs Mike Newtown and David Hartle (also Secretary), and Matt Bullwinkel, Treasurer. Thanks also to our conference Interest Group Chairs: David Hartle, Electrical; Mike Newtown, Mechanical; and Robert Blickwedehl, Civil/Construction and to their colleagues, presenters our exhibitors for making this another successful conference.

Upcoming Conference: The Spring 2007 NYSETA Conference is at Niagara County Community College. The conference dates are March 29-30, 2007. We expect to be honored by the presence of several founding members and officers who we expect will bring us some highlights of the early history of NYSETA. Marguerite Newton and Mark

Voisinnet are spear-heading the planning. Information including conference announcement, hotel information, registration forms and directions will be posted on the web via a link on the NYSETA webpage at <http://www.nyseta.org>. A brief description of the conference may be found elsewhere in this newsletter. Note that Interest Group Chairs and 5 at-Large Representatives will be elected at this meeting.

Future Conferences: Please feel free to volunteer to host a conference. I will be most happy to assist you in any way I can. If you wish to have a conference at a time already planned for another host, I will attempt negotiating changes to fit in volunteers. I can be reached at carm@sunyit.edu or carmine@usadatanet.net.

Spring 2007	Niagara County C. C.
Fall 2007	Alfred State (11-12 Oct)
Spring 2008	Open
Fall 2008	RIT

Communications: To facilitate easy communications a number of new listservers have been setup:

etagen@list.sunyit.edu currently with 155 subscribers including members from **all interest groups**. Seven new subscribers have been added since the last newsletter. This is still way short of our total membership. Please consider subscribing (see below).

etaciv@list.sunyit.edu currently with 34 subscribers for Civil, Construction, and Architectural, etc. issues relevant to the **Civil Interest Group**

etaelec@list.sunyit.edu currently with 67 subscribers for Electrical, Electronics, Electro-mechanical, Telecomm, Computer Technology, etc. issues relevant to the **Electrical Interest Group**

etamech@list.sunyit.edu currently with 51 subscribers for Mechanical, Manufacturing, Industrial, etc. issues relevant to the **Mechanical Interest Group**



Letter from the Vice President, - continued

eta_irs@list.sunyit.edu for communicating with the Institutional Representatives

etaexec@list.sunyit.edu for communicating with the Executive Committee

For now the easiest way to become a subscriber is to email me at carm@sunyit.edu with you email address and which interest group you wish to be included in and I will subscribe you. I plan to post a list of current subscriber's names (without email addresses) on the NYSETA.ORG webpage for each interest group.

Newsletter: Mike Loudis continues to edit and post an online newsletter which appears at <http://www.nyseta.org> in addition to the hardcopy given to you at each spring and fall conference.

Thanks and Kudos: Thanks again to Canton for hosting our Fall 2006 Conference. Our thanks to all who assisted in running the conference and to our speakers and exhibitors. Nice to be back at Canton!!!

Carm

Treasurer's Report - Kathleen Gallagher

We're off to a great start for the Academic Year 2006-2007. Our scholarship fund has reached its maximum cap and since September 2006 we have recruited 8 new members but lost 4 to retirement or other endeavors.

Two of our institutional representatives (IR) have stepped down. Shawn Kennerson of Corning is working in a warm weather state and Vincent Kassab of Erie is retiring. We wish them all the best. If you're interested in becoming an IR please let Carm or I know so that we can keep an updated list. These reps are key to the success of this organization. They help us collect dues, keep our membership list up-to-date, and recruit new members. Please consider becoming more involved with NYSETA by volunteering to be an IR.

Below is NYSETA's current balance sheet ending February 9, 2007. The dues that were collected by SUNY Canton in the fall are not reflected below. It is customary to receive fall conference accounting reports and checks at the following spring conference.

INCOME:

\$22,078.78

Balance 8/31/2006:	\$19,483.96
Member dues collected (does not include dues collected by SUNY Canton):	490.00
Institutional dues collected:	2,100.00
Interest on Savings (9/1/06-1/31/07):	4.82



Treasurer's Report - continued

EXPENSES: **\$ 1,821.71**

Fall 2006 Executive Committee Meeting Expenses	1,046.71
Spring 2006 Conference Seed Money to Niagara	500.00
Adjustment to HVCC/Excelsior Conference Surplus	200.00
Plaque	75.00

ENDING BALANCE: February 19, 2007 **\$20,257.07**

8 month Certificate of Deposit (7/06-3/07)	\$15,504.28
Savings Account	3,614.39
Checking Account	1,138.40

The Scholarship fund has reached its maximum cap of \$6,000.00. In accordance with our by-laws any additional monies collected above \$6,000.00 go directly to the operating budget. The fund will be made available to the Scholarship Committee for disbursement to the student winners at the spring conference. Please look for the scholarship application form in the mail. Only NYSETA members can submit the scholarship application on behalf of a graduating student. In the past, individual awards have been \$300.00 to \$400.00!

A thank-you goes to these Institutional members who paid dues this academic year: Adirondack Community College, Alfred State, Bronx Community College, Broome Community College, Buffalo State College, Erie Community College, Excelsior College, Fingerlakes Community College, Jamestown Community College, Mohawk Valley Community College, Morrisville State College, Niagara Community College, Queensborough Community College, Rochester Institute of Technology, SUNY College of Environmental Science and Forestry, Technical Career Institute, Tompkins-Cortland Community College, SUNY-Institute of Technology, Vaughn College of Aeronautics and Technology, Vermont Technical College and Westchester Community College.

It's not too late to send in your dues. If you plan to attend the spring conference, our host, Niagara County Community College will collect membership dues (still \$10.00 per academic year) along with their conference fee. I'm looking forward to seeing you in Niagara on March 29 & 30. Those waterproof hiking boots I had to buy during the fall conference in Canton will sure come in handy. Brrrr!

Respectfully Submitted,
Kathleen Gallagher, PE, Asst. Prof.
Nassau Community College

News from around the State

Alfred State

Alfred to Host the Fall 2007 NYSETA Conference

Alfred State is please to announce that it will host the NYSETA Fall 2007 Conference on the 11th and 12th of October. It is not to early to start thinking about conference presentation or exhibitions, feel free to contact Alfred's Edward Tezak via email at tezakeg@alfredstate.edu , or his work phone, 607-587-4661.



Alfred State - continued

WINS (Women in Non-traditional Studies)

by Joy Carlson, WINS Club Advisor

In September, the WINS (Women in Non-traditional Studies) Club had its kick off pizza membership meeting in the fairly new Student Lounge which we hope many of you will see in the fall. There was some residual fundraising money from pop cans so members decided that it would go toward "Backpack Buddies." This is a program begun by our former president to provide weekend food for students who need this supplement. A different school district is chosen each year in Allegany County. Every Thursday a group of students or club members go to our food services office and pack up fruit, drink boxes, pudding, crackers etc. to be delivered to the school on Friday for the students. It costs about \$100.00/week to support the program, and the campus as a whole has been very supportive of it.



Women in the Field WINS Dinner

November 2, WINS Dinner - Women in the Field Dinner was held in the Allegany Room. Sheri Sullivan, AAS(AET), '99, BSET(CMT), '01, and Jamie Cortis, AAS(AET), '99, BS(AT), '02 ate dinner in the Allegany Room with the students and spoke about their careers. Sheri started out in the architectural field and ended up in construction and now works for Pride Signs in Rochester. Jamie started on the Wellsville campus in construction and switched into architectural engineering technology and subsequently finished her four year degree. She works for the Thomas Group in Ithaca. Discussion

centered around job satisfaction and the Intern Development Program for qualification for the Architect Registration Examination.

November 30, - WINS members attended a presentation by Christine Hennessey, a Rochester architect who discussed some of her recent commissions and then ate pizza with CIAET dept. chair, Bill Dean and the WINS Club. Money was counted from the November fundraiser and plans were made to shop for a family in need.

December, 2007 - WINS shopped for a family of six who had recently experienced a devastating fire in which they lost almost everything. With \$260.00, the students bought each family member a new outfit, pajamas, and toys. Wrapping was done at advisor Joy Carlson's house and presents were later delivered to Steuben Rural Ministries who sponsored the family. After realizing that there was no extra money for household items, Joy asked the college community to donate sheets, towels, blankets, kitchen items and clothing. An incredible overwhelming response filled Joy's living room, much to the chagrin of her dogs but the family was extremely grateful.

On an academic note, in the Historic Preservation/Adaptive Reuse Studio which I am teaching, the students are measuring and documenting the Andover, NY library which is a Carnegie library. They are also proposing an ADA accessible addition of any elevator, conference room and HC restroom. The designs will be presented to the library board in March. Of interest to Susan Kilgallon (and thanks!) and colleagues at HVCC, one of my students used the Lofts at Harmony Mills in Cohoes as the subject of his adaptive reuse project. One of the ETA field trips last spring was to this famous cotton mill which has become a really nice housing complex: "Manhattan-style living on the Mohawk!"



Buffalo State

By David Kukulka and Mark A. Durlak

Important Changes in the Mechanical Engineering Technology Program at Buffalo State College

This past year at Buffalo State has been very exciting. Finally, after years of proposals and meetings, the program has changed its degree program to a Bachelor of Science. This was an important change for students that relocate to different geographic areas. In certain areas, the old BT degree was not well understood.

Another very important event took place over the summer when Peter Pawlik, chair of the Technology Department, received a grant from New York State to hire new faculty and increase enrollment. Buffalo's Mechanical Engineering Technology (MET) Program was identified as a high needs area. The grant received is ongoing and allowed the department to hire a new tenure track faculty member and develop a student recruitment plan. Under the recruitment plan, the department hopes to increase the number of students in the program by 30, bring the total number of majors to 130. Demand for Buffalo State MET graduates is high with most graduates getting job offers by the time they graduate. MET faculty are visiting high schools and community colleges trying to attract students. In addition the program coordinator is also in the process of reworking articulation agreements with several community colleges. Contact David Kukulka (kukulkdj@buffalostate.edu) if you have questions.

The new MET faculty member hired was Dr. James Mayrose. Jim is an Assistant Professor for the Department of Technology in the School of the Professions at Buffalo State College. He is an outstanding instructor, teaching both MET courses and a couple of introductory service courses. His primary research fields involve the biomechanics of traumatic injury and the development of virtual environments for medical and educational applications. Dr. Mayrose has published 25 original research manuscripts. He has also received a U.S. patent (No. 6,752,770) for the development of a data glove which is used to enhance the diagnostic ability of a palpation exam by physicians. For this invention he was awarded the 2004 "Inventor of the Year" by the Niagara Frontier Intellectual Property Law Association and Technical Societies Council. Dr. Mayrose can be reached via email at mayrosj@buffalostate.edu.

Engineered for Success



Graduates of the mechanical engineering technology (MET) program "get jobs—good jobs," according to Dave Kukulka, technology professor and coordinator of the mechanical engineering technology program. Those jobs range from applications engineer to field technician to senior product designer. Ed Czechowski, '95, '97, is the supervisor of new product development engineering at Cameron Compression Systems. He got his start at Cameron with an associate's degree that qualified him to work as a drafter. "I had an intuitive sense of mechanics," he said. "I understood the principles, but I didn't have the theory." He decided to return to Buffalo State to earn a four-year degree. Today, he serves on the MET Advisory Board representing area industry.

Engineering Technology

Buffalo State's MET program gives students a broad education that encompasses mechanical design, mechanics, stress analysis, thermosciences, and manufacturing. It is accredited by the Accreditation Board for Engineering and Technology. thermosciences, and manufacturing. It is accredited by the Accreditation Board for Engineering and Technology.



Buffalo State- continued

The major difference between an engineering degree and the engineering technology degrees offered at Buffalo State is a matter of emphasis, according to Peter Pawlik, chair of the Technology Department. Engineering technology focuses on application. MET graduates acquire scientific and engineering knowledge and learn how to combine that knowledge with technical skills to solve a given problem. “The placement rate for MET graduates is one hundred percent,” noted Pawlik.

“A big part of the job,” said Czechowski, “is acting as a liaison and an interpreter, explaining the idea for the solution to the people who will implement it.” Buffalo State graduates excel in their ability to interface with management and the technicians on the shop floor, according to Czechowski. “In class, you have to present your work to the other students,” he said, “so you learn how to explain what people should do with the information you give them.”

Multiple Labs

Students engage in hands-on learning in a number of labs. In the materials processing lab, for instance, students become familiar with lathes and milling machines. In the materials science and testing labs, students learn the properties of materials. One piece of equipment can exert up to 120,000 pounds of pressure pulling apart different metals and alloys. “Students have to understand what material to use for different applications,” explained Pawlik.

In the thermal science lab, students learn the principles of thermodynamics and fluid dynamics and how to apply them. The lab is also the site for creating vehicles for this year’s Mini Baja competition. The Society of Automotive Engineers (SAE) sponsors the annual engineering design competition to “provide SAE student members with a challenging project that involves the planning and manufacturing tasks found when introducing a new product to the consumer industrial market,” according to SAE’s Web site. Some students participate in the Mini Baja to fulfill the program requirement of completing a major design project in their senior year. Others work with a local company to solve a particular problem. For example, when Eric Barton, ’04, did his senior design project, Fisher-Price presented the team with three challenges related to its popular Bubble Mower toy. “We were able to redesign one component,” said Barton, “and they used it.” Barton, now a senior model maker with the company, said, “We bring the engineers’ ideas to life.”

From Lab to Labor

The projects are real. A few years ago, Czechowski and Cameron Compression Systems sponsored a senior design team and charged them with designing and building major subsystems for a new air compressor from scratch in time for an April trade show. The students, who started in November, completed the project successfully. “Three of the team members work for me now,” said

SUNY Canton

By Stephen E. Frempong

NARTE Certification at SUNY Canton

The State University of New York at Canton is now a certified testing center for the National Association of Radio and Telecommunication Engineers (NARTE). Under NARTE certification programs, candidates at both



SUNY Canton - continued

Technician and Engineer levels can register with **NARTE**, and take the test at **SUNY** Canton. Qualified candidates may register to take an examination for the following certifications:

- Electromagnetic Compatibility (EMC) Certification
- Electromagnetic Compatibility (EMC) Test Lab Personnel Certification
- Product Safety Certification
- Electrostatic Discharge (ESD) Control Certification
- Telecommunications Certification
- FCC License Examinations
- Marine Radio Operator Permit
- General Radiotelephone Operator
- The Ship Radar endorsement

The NARTE Certification is recognized worldwide as well as in many US courts as proof of expertise and professional competence. For more information and examination registration go to www.narte.org or call 1800-89-NARTE.

Candidates can also contact (Stephen Frempong) at SUNY Canton to take the test with a short notice.

Stephen E. Frempong, Ph.D., NCE, CET
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Erie Community College

by Vincent Kassab and Nathan N. Witkowski

Electrical Engineering Technology at ECC

The new Overhead Electric Line Worker Program was successfully launched this year. Paid internships with local utilities should be available for all graduates. The recruitment effort for the next class is well under way. There is strong interest in this program. A two-year energy worker option from EET is in the planning stages. Grants from National Grid and Perkins III are funding the capital expenses. An indoor distribution lab is near completion. An outdoor pole yard is planned for next year.

Both full-time and part-time teaching positions will be available in EET for the next academic year (2007-08). Interested faculty should request an application from the Human Resources Department at the South Campus.

NYSETA's Alvin Ashman and Vincent Kassab to Join the Leisure Class

Two full-time faculty will be retiring at the end of this semester. Alvin Ashman has been with the EET Department for 30 years. Vincent Kassab, yours truly, has been with the Department for 36 years. We are both looking forward to retirement. You may see some new faces at next year's NYSETA Conferences.



Erie Community College - continued

On a personal note, I have enjoyed my long-term relationship with Erie Community College and NYSETA. I carry with me many fond memories of the people I have worked with, the students I have served, and the experiences that I shared. My future plans are not firm yet but I will most likely be participating at NYSETA events.

Industrial Technology at Erie Community College

The Industrial Technology Department at Erie Community College has successfully built; and is currently running, a 15 Week CNC Machining and Programming sequence of courses. Students attend college full time for one semester and receive a letter of completion. The courses; all of which apply towards an Industrial Technology Degree are: CNC Programming, CNC Operation, Machine Tools I, Technical Graphics / CAD, and Industrial Inspection / Metrology. This program is offered both day and evening and has been filling to capacity quickly.

With this in mind we are looking toward the future to offer a more advanced one year New York State Certificate Program in Machining. Preliminary work on this process has already begun, and we are looking forward to being able to offer a series of hands-on machining pathways which will culminate in an AOS Degree in Industrial Technology.

The Industrial Technology Department has formed an alliance with machining/manufacturing companies in Western New York in order to prepare individuals for employment in the precision machining and manufacturing industry. We recognize that the strength of any program is dependant upon the demand and support of local business, thus the creation of the Alliance. ECC, working together with the Machining/Manufacturing Alliance, will prepare students for an industry experiencing a severe shortage of skilled CNC machinists. The alliance we have with local industry has been a huge success for our program and our students. We have more job opportunities streaming in for our students than we can fill. Every student that finishes our program that wants a job has one.

We don't know what the future holds for our young people so with this in mind we feel it's our obligation to do more than provide our students with short term training and a job. We want to encourage our students to continue their education if possible. If they continue their training with another semester we plan to offer them a NYS certificate and from this point they are half way toward earning a two-year degree. We believe this additional training and education will open doors and allow them to advance plus provide them with additional employment security and a brighter future.

Both the 15 Week course offering and the one year certificate being evaluated reside in the Industrial Technology Department. Uniquely, our department has the flexibility to offer AOS degrees custom designed to meet student's particular needs / interests. Machine tool skill training is evolving as a special capability area but we also have a cluster of courses in plastic injection molding, courses in general manufacturing and are looking at course additions such as: quality, lean manufacturing, and 6 sigma which will complement existing courses and form a quality/lean specialty area.

Movement in new directions has been assisted by an alliance with local manufacturing companies. This alliance includes representatives from local businesses, government economic development agencies, ECC faculty, ECC administrators and ECC corporate training. The intent is to utilize effective communication between all involved parties to enable the development of effective and efficient learning experiences that match student interests and



Erie Community College - continued

abilities with workplace needs. It is expected that this approach will ultimately provide the students with the maximum benefit. We are interested in your thoughts and comments; contact us at (716) 270 – 5895.

Hudson Valley Community College

by Sue Kilgallon

A great deal has been happening at the school. We are very proud of the new programs we will be offering:

Electrical Technology: Semiconductor Manufacturing Technology Degree

- In April 2005, the college announced the creation of its [Electrical Technology: Semiconductor Manufacturing Technology associate's degree program](#), offered through its School of Engineering and Industrial Technologies.
- The college collaborated with educators at the University at Albany and Rensselaer Polytechnic Institute to develop the program. The program is designed to provide students with a combination of classroom education and hands-on instruction, which is taught in the clean room labs at UAlbany's College of Nanoscale Science and Engineering.
- Hudson Valley also has received a \$525,000 federal grant to construct a Semiconductor Manufacturing Lab in Amstuz Hall on campus; the lab will simulate a clean room environment, and will be operational for the spring 2008 semester.
- The first year of the Semiconductor program mirrors the first-year curriculum of the college's Electrical Engineering Technology program. Four, semiconductor-specific courses are offered during the second year: Semiconductor and Nanotech Overview and Vacuum and Power RF in the fall semester, and Semiconductor Manufacturing and Nanotechnology Fabrication Processes and Semiconductor Metrology and Process Control, in the spring semester.
- The first class of semiconductor-trained students will graduate with associate degrees in applied science in 2007. Upon graduation, students will be qualified for jobs as "work station operators" in clean room environments. The program prepares students either to enter the workforce or transfer to a bachelor's degree program.
- For the fall 2006 semester, 31 first-year students are enrolled in the Electrical Engineering Technology program, and 14 first-year students are enrolled in the Semiconductor Manufacturing Technology program. These students are scheduled to graduate with associate's degrees in 2008. In addition, graduates of the college's Electrical Engineering Technology also could enroll in the four, semiconductor-specific courses to enhance their skills.

Photovoltaic Installation Certificate

- In September 2006, the college received state approval to offer a five-course, 21-credit certificate program in Photovoltaic (PV) Installation. This certificate is offered through the college's School of Engineering and Industrial Technologies and is part of its Electrical Construction and Maintenance program. Students will begin enrolling in the certificate program in fall 2007.



Hudson Valley Community College - continued

- The certificate program combines three courses from the college's long-standing Electrical Construction and Maintenance program – Electricity; Residential Construction Wiring; and Commercial Construction Wiring – with two courses – Photovoltaic Systems Theory and Design and Photovoltaic Systems Installation – which the college has offered since fall 2005.
- Hudson Valley was awarded a \$148,000 competitive grant from the New York State Energy Research and Development Authority to create the two photovoltaic-specific courses, as well as a photovoltaic lab on the college's campus. The photovoltaic lab has both roof-mounted and post-mounted solar panels, providing students hands-on experience in installation and maintenance of PV systems.

Future Cities Competition:



On Jan. 13, 2007, Hudson Valley Community College for the first time hosted the Capital District regional qualifier of the Future City Competition, a national competition involving more than 30,000 students from 1,100 middle schools. Nearly 250 seventh- and eighth-grade students from 24 area middle schools competed in the Capital District event, while hundreds of family members and friends watched and cheered them on.

Working together in teams, students designed and built cities of tomorrow. Students had the opportunity to also work with professional engineers, who mentored each team. This year's focus was fuel cells, requiring students to incorporate the technology into their future cities and discuss it in accompanying essays. Panels of judges rated each team on their designs and an oral presentation. The winning team was Farnsworth Middle School from Guilderland in Albany County.

Working together in teams, students designed and built cities of tomorrow. Students had the opportunity to also work with professional engineers, who mentored each team.



The Winning Team, Farnsworth Middle School

The Future City Competition is now in its 15th year. It is sponsored by the nation's professional engineering community. Hudson Valley Community College was one of 38 regional sites held across the country in January. Regional winners travel to Washington, D.C. for the national finals held Feb. 19 through Feb. 21, 2007.



Jamestown Community College

by Larry Straight

Full-time, Tenure-Track Faculty Position in Manufacturing/Mechanical Technology

Jamestown Community College is a comprehensive community college with degree granting campuses in Jamestown and Olean in southwestern New York State. We are a technologically progressive, open access institution that meets regional education needs by providing transfer degree programs, career programs, community service, developmental education, and training for business and industry. These positions are entry level and will be filled at the instructor or assistant professor level. Additional opportunities exist for interested faculty to do summer teaching, conduct teaching/learning projects, volunteer for administrative leadership assignments, and coach a team sport. Guided by principles that emphasize student success and continuous improvement, we welcome qualified candidates who:

- Integrate learning outcomes assessment techniques in their instructional planning, curriculum design, and teaching activities.
- Apply informational technology to the teaching and learning process.
- Deliver daytime and evening instruction in various locations and a variety of formats such as lecture, distance learning, and via the Internet.
- Participate in activities designed to recruit and retain students, such as academic advisement.
- Make assessment-driven decisions.
- Collaborate in flexible, imaginative problem solving.
- Integrate interdisciplinary and global perspectives into their methodology.

The successful candidate will demonstrate skills as both a teacher and a leader. The job includes teaching credit courses in established programs, such as Mechanical Technology and Machine Tool Technology, providing leadership for current engineering and technology programs, and new program development at the Manufacturing Technology Institute (MTI). A Bachelor of Science degree in Mechanical Engineering, Mechanical Technology, or related field is required; a master's degree is preferred and will be required for tenure. Three years of experience in a hands-on manufacturing environment is required. Teaching experience is preferred, along with a demonstrated ability to assume a leadership role.

Please send resume, college transcripts, and three professional references with addresses and telephone numbers to humanresources@mail.sunyjcc.edu or mail to Jamestown Community College, Human Resources Office, P.O. Box 20, Jamestown, NY 14702-0020. Review of applications will begin immediately and continue until position is filled. For more information about JCC and a complete job description visit our website at www.sunyjcc.edu.

JCC is firmly and fully committed to the principles of Affirmative Action and Equal Opportunity and will extend itself to see that these policies are fulfilled.

Mohawk Valley Community College

by Assorted contributors

MVCC, Bartell, partners collaborate to train new CNC workers Students learn to become employees

Trying to fill a shortage of Computer Numerical Control (CNC) machinists, Bartell Machinery Systems has developed a unique paid training program in conjunction with Mohawk Valley Community College and Working Solutions.



Mohawk Valley Community College - continued

Eight participants in the program are working a half a day for Bartell, and attending MVCC's CNC Machinist Technology Certificate program the other half of the day, while being paid \$10 per hour for the entire day.

"Manufacturing is the ultimate team sport because it takes many constituent groups both internal and external to the company to make it work," said Bartell President Jerry L. Eisenhart. "It is successful only when there is excellent teamwork between the company and state and local officials. We here at Bartell are indeed fortunate to be part of that kind of team."

"Our most valuable resource within the company is our associates," Mr. Eisenhart continued. Speaking to the young people and educators in the region, he noted, "If you want a career in the skilled trades, the opportunities are here now. Working in the skilled trades you can realize the American dream – to own a nice home, enjoy the comforts of life, and educate your children. Further, your country, this state, your local community and Bartell need you. The program we are announcing today is aimed directly at helping you accomplish this and it is so powerful we fully expect it to become the model for the way many employers across the state interact with their local communities."

Assemblywoman RoAnn M. Destito helped coordinate state assistance for a building expansion at Bartell last year and helped bring all the parties together to develop this CNC machinist training program.

This project is an outstanding model of how to help meet the needs of one of our area's major employers," said Assemblywoman Destito. "This training program benefits Bartell Machinery by providing the company with the specialized employees it needs, and it strengthens the Mohawk Valley's economy by increasing the number of full-time jobs in our region."

Mohawk Valley EDGE worked with all of the parties to help bring this training program to fruition. EDGE has previously worked with Bartell through the multi-manufacturers consortia to provide skills training to employees.

"A skilled work force is vital to the success of any business, and to the strength of a region's economy," said Steven J. DiMeo, Mohawk Valley EDGE president. "EDGE is proud to have played a role in this unprecedented partnership and training program. We hope this type of program can be adopted by other employers with similar employee training needs."

The program began with MVCC's spring semester. "This innovative partnership between EDGE, Bartell, Working Solutions, and MVCC created an enrollment model which combines the financial aid of TAP/PELL, financial support of the DOL/WIB, and direct employer support in the form of wages to the participants of the program," said MVCC President Michael I. Schafer. "The program is substantially underwritten by Mohawk Valley Community College, reflecting its commitment to economic development and to helping local business and industry. Students in the program are hired as Bartell employees and will be paid during their training time at MVCC as well as during their time at Bartell."

"To our knowledge this is the first time a model such as this has been used within New York State and this is evidence of how education, government, employers, and economic development agencies are working together to create jobs in the region," Mr. Schafer continued. "This is also evidence that manufacturing is not dead in the Mohawk Valley, but instead is redefining itself. There is a need for a skilled and trained manufacturing work force here in the Mohawk Valley."



Mohawk Valley Community College - continued

Those enrolled were recruited by Working Solutions. “Working Solutions has been pleased to work in partnership with one of Oneida County’s outstanding employers to help Bartell find the best, most-qualified people possible so that the company can continue its track record of excellence and growth. We hope that the success of this project spurs more employers to work with us to further develop the skills of their workers,” said Alice Savino, Executive Director of the Workforce Investment Board. “We also appreciate Assemblywoman Destito’s efforts to help connect employers and our system. This project is a great step forward for our collaborative efforts.”

“There has been an outstanding level of cooperation to make the Working Solutions Rome office function in partnership with Bartell and MVCC,” said David Mathis, Director of Oneida County Workforce Development, which operates the Rome center. “I want to salute the many staff of Oneida County Workforce Development, the Workforce Investment Board, Mohawk Valley EDGE and Mohawk Valley Community College who have worked with Bartell and with one another to make this project a reality.”

After completing the program, participants will have the opportunity to secure a full-time job at Bartell, and double their hourly pay rate.

Bartell has about 150 employees at its 110,000-square-foot facility, which includes a 27,000-square-foot addition completed in 2006.

Contact: Rob Duchow (EDGE) 338-0393
Peter Maio (Bartell) 336-7600
John Stemen (Assemblywoman Destito) 732-1055
MVCC
Alice Savino (Working Solutions) 793-6037

Morrisville State College

by assorted contributors

MSC Observatory’s Telescope Restored

Jay Caretti, an instructor in Morrisville’s School of Science and Technology, and his astronomy students have spent several years restoring an antique telescope made in the early 1900s. The Schelter 12.5 inch Newtonian telescope was donated to the college in 1967, and many of the steel and iron components of the handmade instrument had rusted significantly. The restored telescope, now a glistening showpiece with hardware of polished brass, is now housed in an observatory atop one of the Town of Eaton’s highest peaks. It is used by students taking Morrisville’s Solar and Stellar Astronomy courses.

High Tech Marketing Line

HTML will soon stand for High-Tech Marketing Line for New York’s agricultural producers and processors. With funding from the New York Farm Viability Institute, Inc., Morrisville State College’s Computing and Information Technologies Professor, Kim Mills, Agricultural Business Assistant Professor Sheila Marshman, and 20 producers and processors are developing a model for farmer-to-consumer selling via the internet.



Morrisville State College- continued

The new online farmers' market aims to increase the profitability of each participating farm by at least ten percent in the first year with a four year cumulative profit in excess of \$4 million for more than 500 participating farmers from across New York State.

MSC's Technology & Energy Literacy Day Workshop

On March 29th, Morrisville State College is having a Technology & Energy Literacy Day Workshop for middle and high School Teachers. The event is sponsored by the New York Energy Smart Students program, a professional development program in energy education for classroom teachers.

Workshop participants will learn about the New York State, national, and, global energy picture by exploring topics including: *Energy Farms and Sources; Energy End Uses; Environmental Impacts of Energy Use;* and, *the Latest Research on Climate Change*. Hands-on group activities will reinforce and expand upon the concepts learned, giving participants the opportunity to directly experience content included in the curriculum, provided free to attendees.

For more information on the workshop, visit: www.GetEnergySmart.org.

Morrisville finds that Suites are good for you!

Morrisville State College officials are considering building a second suite-style residence hall, after the construction of a similar dorm built last year have elicited rave reviews from students. Morrisville Commons opened in July, housing 200 students in apartment-style suites featuring four single bedrooms, two bathrooms, a kitchen and a common living area furnished with couches, lamps and coffee tables. The building has been popular with students because it combines the convenience of campus living with the feel of an off campus residence.

College officials are in talks with the Madison County Industrial Development Agency to fund the construction of a second suite style dorm with tax exempt municipal bonds. The building would likely be the same size as the current suite-style dorm, built on campus.

Onondaga Community College by assorted contributors

OCC's James Delaney to Retire

Professor James Delaney plans to retire at the end of spring semester, 2007. He has been a faculty member in our department since 1981, and taught almost all the courses in our Electrical and Computer Engineering Technology programs. In the last fifteen years, he has been teaching primarily in the areas of computers and networking, and he kept our courses at the cutting edge of technology. He has become the Computer Guru on our and Syracuse University campuses.

Jim is really a success story of the concept of Community Colleges. He finished his high school in our area, served in Navy, married his high school sweet heart came to OCC as a student in Electrical Technology, and graduated



Onondaga Community College - continued

with honors in 1976. He worked as a technician at OCC and Carrier Corporation and completed his Bachelor's degree on a part-time basis from SUNY College of Technology.

The college and the department will miss him.

OCC's Professor Gaonkar, publishes third Electrical Engineering Technology Textbook

Onondaga Community College Professor of Electrical Engineering Technology Ramesh Gaonkar, Ph.D. recently published his third textbook titled, "Fundamentals of Microcontrollers and Applications in Embedded Systems with PIC18 Microcontroller." The textbook is designed for use with 2nd or 3rd year college students and published by Thomson/Delmar Learning.

Dr. Gaonkar is the author of two internationally acclaimed textbooks on the subject of microprocessors: *Microprocessor Architecture, Programming, and Applications with the 8085*, and *The Z80 Microprocessor: Architecture, Interfacing, Programming and Design*.

His two textbooks on the subject have been published and reprinted in the United States and abroad; the 8085 book is in its fifth edition and the Z80 is in its third edition.

Ramesh Gaonkar, a Physics graduate from Bombay University, India, has a degree in Electrical Engineering from Rensselaer Polytechnic Institute, and Ph.D. from Syracuse University. He joined the teaching profession at Onondaga Community College, State University of New York after working as an engineer in various industries. At present, he serves as a Professor and Chair of Electrical Technology at the college. He is a recipient of SUNY Chancellor's award, ASEE Outstanding Teacher Award (St. Lawrence Section), and Technology Educator of the Year Award from Technology Alliance of Central New York. He has also served as the Director of NSF project dealing with underprepared students in technology.

Rochester Institute of Technology

by Carol Richardson

RIT's College of Applied Science and Technology is growing!

Rochester Institute of Technology's (RIT's) College of Applied Science and Technology (CAST) is currently seeking qualified applicants for two current tenure-track, instructional faculty positions and one anticipated tenure-track, instructional faculty position in its engineering technology area.

The first opening is in CAST's computer engineering technology program. Successful applicants for this current opening will meet these minimum requirements:

- Three years relevant industrial experience
- Current technical background
- MS in electrical, computer or a related engineering technology or engineering discipline
- Experience in VHDL/Verilog design
- Experience in FPGA or ASIC design



Rochester Institute of Technology – continued

The second opening is in CAST's civil engineering technology program. Successful applicants for this current opening will meet these minimum requirements:

- Bachelor's degree in civil engineering or civil engineering technology discipline
- Master's degree in civil or related engineering or engineering technology discipline
- Three years industrial experience in the civil/construction field
- Demonstrated knowledge in transportation and land/municipal planning design

The final opening is an anticipated opening in CAST's electrical engineering technology program. Successful applicants for the anticipated EET opening will meet these minimum requirements:

- Three years relevant industrial experience
- Current technical background
- MS in electrical, computer or a related engineering technology or engineering discipline
- Design expertise in one or more of the following areas:
 - Analog & Digital Systems
 - Opto-Electronics
 - Power Systems
 - Analog & Digital Control Systems

All qualified and interested candidates should visit the RIT CAST website at www.rit.edu/cast for complete job postings and application information.

Louis B. Gennaro, Professor Emeritus, named as the Associate Editor of the Journal of Applied Science and Engineering Technology.

Louis B. Gennaro, Professor Emeritus of the Rochester Institute of Technology, has been named as the Associate Editor of the Journal of Applied Science and Engineering Technology. Prof. Gennaro brings his enormous experience and expertise in the field of technology and in the world of academia to the JASET as we prepare to launch our inaugural edition in the Spring of 2007. Please join us in welcoming Prof. Gennaro to the JASET team.

The Journal of Applied Science and Engineering Technology is a peer reviewed publication published by The Rochester Institute of Technology's University Press and the Wallace Library.

<http://wally.rit.edu/oajournals/index.php/jaset> .

SUNY Institute of Technology (SUNYIT), Utica, NY

Compiled by Jayne Baran from various sources

State grant to fund anti-DWI program

The New York Governor's Traffic Safety Committee has awarded a \$144,000 grant to the Lewis Henry Morgan Institute at SUNYIT to fund a program aimed at educating high school students about the dangers of drinking and



SUNY Institute of Technology –continued



driving. The grant, according to Andrew Wolfe, assistant professor of civil engineering technology, will fund the development, construction and exhibition of a museum-quality traveling exhibit for high schools across the state.

“These exhibits would target youth at risk and binge drinking, and would also emphasize the role of drinking in athletics,” Wolfe said. “Both visual and hands-on materials would be used to reach the students who experience the exhibit.” Wolfe said the exhibit, “Last Call: the Youth Alcohol Culture,” would be similar in scope to the acclaimed “Friends” exhibit, which the Morgan Institute has offered to colleges and other public venues across the state since 2003.

According to the National Highway Traffic Safety Administration, nearly 42,000 people die in motor vehicle crashes every year in New York State, 40 percent of which are alcohol-related. One person is killed every 33 minutes and one person is injured every two minutes from alcohol-related crashes. Wolfe said more than a third of adults with alcohol problems develop symptoms by age 19, making educational outreach in high school critical to prevention of substance abuse and its consequences.

In January, 2007, Wolfe spent 5 days at the Transportation Research Board annual meeting in Washington, DC. He serves on the Highway Capacity and Quality of Service committee. He also chairs the Planning and Preliminary Engineering subcommittee, which is working on adding planning applications to the next Highway Capacity Manual.

Student Club News

In June 2007, SUNYIT’s SAE student chapter will travel to Rochester for the regional Baja competition. The club, which started in September 2004 under the advisement of Dr. Daniel Jones, Associate Professor, has completed several iterations of the frame, suspension, power-train, and controls. Students have raised over \$10,000 from sponsors, and they’ll be competing with heavily-funded universities with many years of experience. For details, check out <http://clubs.sunyit.edu/sae/>



Professor Receives Issue Notification for Patent

Dr. Daniel Benincasa, SUNYIT assistant professor of electrical engineering and electrical engineering technology received an Issue Notification for a patent application on work he did while at the Air Force Research Laboratory in Rome. The U.S. Patent Number is 7,177,808; the issue date is 2/13/07. Dr. Benincasa is the 2nd inventor. The other three inventors are from Temple University (2) and from the Air Force Research Laboratory in Rome, New York.





SUNY Institute of Technology -continued

Abstract

Method for improving speaker identification by determining usable speech. Degraded speech is preprocessed in speaker identification (SID) process to produce SID usable and SID unusable segments. Features are extracted and analyzed so as to produce a matrix of optimum classifiers for the detection of SID usable and SID unusable speech segments. Optimum classifiers possess a minimum distance from a speaker model. A decision tree based upon fixed thresholds indicates the presence of a speech feature in a given speech segment. Following preprocessing, degraded speech is measured in one or more time, frequency, cepstral or SID usable/unusable domains. The results of the measurements are multiplied by a weighting factor whose value is proportional to the reliability of the corresponding time, frequency, or cepstral measurements performed. The measurements are fused as information, and usable speech segments are extracted for further processing. Such further processing of co-channel speech may include speaker identification where a segment-by-segment decision is made on each usable speech segment to determine whether they correspond to speaker #1 or speaker #2. Further processing of co-channel speech may also include constructing the complete utterance of speaker #1 or speaker #2. Speech features such as pitch and formants may be extended back into the unusable segments to form a complete utterance from each speaker.

Inventors: Yantorno, Robert E.; (Havertown, PA) ; Benincasa, Daniel S.; (Barneveld, NY) ; Wenndt, Stanley J.; (Rome, NY) ; Smolenski, Brett Y.; (Schwenksville, PA)

NYSETA Institutional Representatives

The NYSETA Institutional Representatives (IR's) listed below, have each agreed to collect dues and to distribute ETA information, meeting announcements, and newsletters to their institution's engineering technology faculty and staff, especially to those who are not on the ETA's mailing list. Each fall, ETA treasurer Kathleen Gallagher sends each Institutional Rep dues collection material to be used for his or her institution. The following is a summary of Institutional Representatives. If there is no listed IR for your institution, it indicates that no response was received for the latest inquiry sent by the ETA secretary.

If you would like to take over as IR for your institution send an Email with a statement to that effect to Jayne Baran, ETA Secretary at: W: 315.792.7542, Fax: 315.792.7800, or E-mail: barans@sunyit.edu

Institution	Institutional Representative
Adirondack Community College.....	Diane Dalto
Alfred, SUNY College of Technology.....	Ron Nichols
Bronx Community College.....	Nasser Abdellatif
Broome Community College.....	Arthur Haas
Buffalo State, SUNY College	Peter Pawlik, Anthony Hotchkiss
Canton, SUNY College of Technology....	David Hartle
Cayuga Community College.....	John Campbell
Clinton Community College	Al Cordes
Corning Community College.....	Shawn Kennerson
Delhi, SUNY College of Tech.....	?
DeVry Institute of Technology.....	Robert Brunson
Dutchess Community College.....	James Braazee
Erie Community College North.....	Vincent Kassab
Excelsior College.....	Bob Moore
Farmingdale, SUNY College of Tech....	Jeff Hartman



NYSETA Institutional Representatives – continued

Institution	Institutional Representative
Finger Lakes Community College.....	Marsha Walton
Fulton-Montgomery Community Coll.....	Richard Prestopnik
Herkimer County Community College.....	?
Hudson Valley Community College.....	Susan Kilgallon
ITT Technical Institute (Getzville).....	Fran Olgetree
Jamestown Community College.....	Charles Rondeau
Mohawk Valley Community College.....	Bryan Alguire
Monroe County Community College.....	Mark Oliver
Morrisville State College.....	Ms. Christine Cring,
Nassau County Community College.....	Fred Schoenfeld
New York City Technical College.....	Gerada Shields
Niagara County Community College.....	Charles Fowle
Onondaga County Community College.....	Ramesh Gaonkar
Orange County Community College.....	Arlin Bartlett
Queensborough Community College.....	Stuart Asser.
Rochester Institute of Technology.....	Martin Gordon
Rockland Community College	Morton Leifer
Schenectady County Community College..	Ruth McEvoy
Suffolk County Community College.....	Peter Maritato
SUNY Environ Sci/ Forestry at Syracuse..	George Kyanka
SUNY Institute Of Technology @ Utica – Rome.....	Mme. Jayne Baran
Technical Career Institutes Inc.....	Jerome Zornesky
Tompkins Cortland Community College...	Charles Bechtold
US Merchant Marine Academy	Charles Hubert
Vaughn College of Aeronautics (Flushing)..	Andrew Grossfield
Vermont Technical College.....	Ken Vandermark
Westchester Community College	Raymond Mignogna

About Our Next Newsletter....

Our Next Newsletter will be distributed the second week of September 2007. Articles received prior to September 7th, will be included. You'll notice that more space is being allotted to colleges in "News from around the State," even allowing the inclusion of modestly sized photographs or diagrams. In as much as the newsletter is to be downloaded from the web and not mailed (at great cost), I welcome the opportunity for the newsletter be the NYS Engineering Technology educator's journal of record. Your articles are welcome, and greatly appreciated.

Your NYSETA Colleagues and I would be delighted to hear of anything of special interest happening on your campus such as:

1. New curricula being considered,
2. Changes in your staff,
3. Grant activities, successful or not,
4. New technology authors on your staff,
5. Engineering Technology teaching positions open at your college,



About Our Next Newsletter - continued

6. New Technical facilities planned or under construction on your campus
7. Recent retirements, promotions, or other staff changes on your campus,
8. T AC-ABET accreditation visits, and,
9. Noteworthy awards to personnel or students.

You may email articles to the editor at: Loudismj@morrisville.edu

I receive lots of spam and lots of other unwanted e-mail, and delete most of it immediately, so be sure to type "NYSETA NEWSLETTER" as the subject of your e-mail.

You are also welcomed to send paper copies of your articles to:

Michael J. Loudis
NYSETA Newsletter,
Morrisville State College,
Galbreath Hall,
Morrisville, NY 13408



The NYSETA Spring '07 Conference at Niagara County Community College, March 29th & 30th, 2007

Visit the Spring '07 Conference Website!
Follow the links to the Conference Website through:

WWW.NYSETA.ORG

The conference website includes registration forms for the conference, driving directions to the campus and the Comfort Inn's The Point Hotel, and other information and updates.

Comfort Inn's The Point Hotel,
in Niagara, NY, is providing hotel rooms at a special NYSETA Conference rate of
\$65 per night, (single or double),
for the evenings/nights of March 28th & 29th.

**Make your reservations by March 9th by calling:
1-716-284-6835**