



Engineering Technologies & The Trades - Changing to Meet the Future Head-On

The single most relevant description of technology in today's world is that it is complex and changing rapidly. That complexity and change is clearly reflected in the Engineering Technologies & The Trades Department, where new programs, new courses and new equipment are the order of the day. The changes come in response to, and in some cases anticipation of, needs faced by employers.

A Wide Range of Programs

Engineering Technologies & The Trades offers a variety of programs. The key core programs are Mechanical Engineering Technology (A.A.S.), Electrical Engineering Technology (A.A.S.) and Civil Engineering Technology (A.A.S.). According to Professor Frank Przybycien, department head, many other programs are spin-offs of these three curricula.

The other programs include Air Conditioning Technology (A.O.S.), Building Management & Maintenance (A.A.S.), Computer Aided Drafting (A.O.S.), Electrical Services Technician (A.O.S.) with options in Fiber Optics, Electrical Maintenance, and Robotics, Manufacturing Production Technology (A.O.S.), Mechanical Technology: Aircraft Maintenance (A.A.S.), Semiconductor Manufacturing Technology (A.A.S.), Surveying Technology (A.A.S.), Telecommunications Technology (A.A.S.) including a program variation for Verizon employees, and Welding Technology (A.O.S.).

The Engineering Technology and Surveying Technology programs are accredited by the Technology Accreditation Commission of the Accreditation Board for Engineering & Technology (TAC-ABET).

Certificate programs include Appliance Repair, Refrigeration & Air Conditioning, Architectural/Civil Drafting, Carpentry & Masonry, CNC Machinist Technology, Electronic Technician, Engineering Drawing, Heating & Air Conditioning, Industrial/Commercial Electricity, Industrial Engineering Technician, Machinist Technology, Mechanical Drafting, Metallurgy Laboratory Technician, Production Planning, Refrigeration, Surveying, Tool Design, and Welding.



Diverse & Modern Labs A Strength of ET&T Programs

The variety of offerings reflects the College's comprehensive and ever-changing laboratory facilities. "Having a range of labs that can be used by sev-

continued on page 2

MVCC's 4th Annual Gala Event

"My Sinatra, The Songs and the Stories,"

Performed by
Cary Hoffman with the Stan Rubin Orchestra

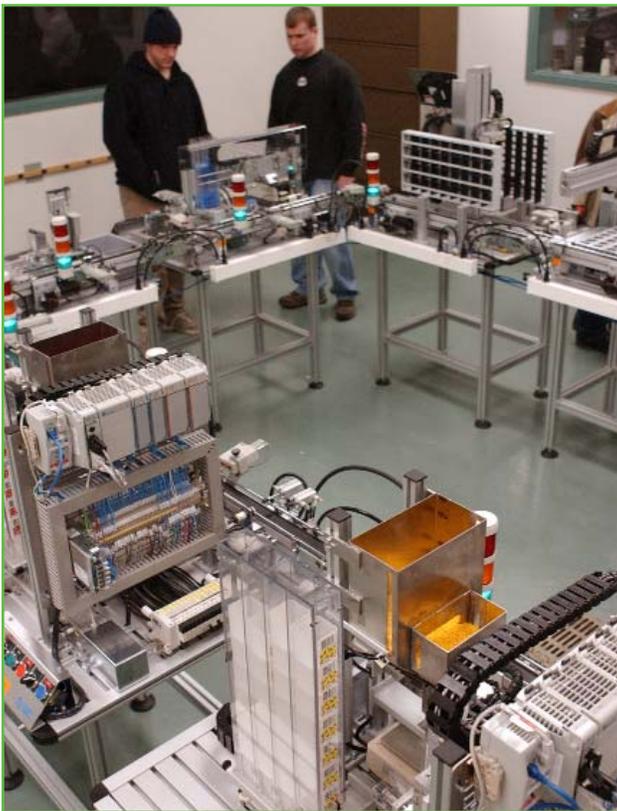
Saturday, October 29th

Faculty and staff can purchase two tickets at a reduced price of **\$35** each.

Tickets are now on sale through **Donna Yaghy** in the President's Office at ext 5486.

Information to come on the Pre-Gala Faculty/Staff After-Hours Party
October 28th

Engineering, Technology and the Trades, cont.



eral programs makes us highly efficient in our lab use," says Przybycien. Both the labs and the courses and programs are continually changing. Labs range from traditional machine tools to the newest one dealing with highly automated manufacturing, one of only 12 pilot sites in the country. Its acquisition at a comparatively low cost - a quarter of its current commercial value - was made possible by the College's partnership with the Maricopa Advanced Technology Education Center in Arizona.

Four years ago, the Department acquired a Haas Vertical Mill. More recently, it added a Hardinge CNC lathe.

Both acquisitions are part of an effort to keep pace with advancements in technology and with the skills needed by employers. Both CNC machines feature the latest programming software and tooling used by industry.

Similarly, the Department is constantly trying to integrate new computer software into its courses, including AutoCAD, MicroStation, ArcView and SolidWorks.

Program Development is Key

As technology advances, and the needs of employers change, the Engineering Technologies & The Trades Department keeps pace with new courses and programs.

The Department has created new courses in GIS (Geographic Information Systems) and has integrated GPS (Global Positioning Systems) into the Surveying curriculum. These apply satellite technology to land management and transportation.

The College also received a three-year \$326,000 National Science Foundation grant to develop new curricula using highly automated systems in "smart" manufacturing, in which computerized systems control the manufacturing process, allowing companies to dramatically increase manufacturing productivity. The system also has software that integrates manufacturing scheduling and management into the highly automated system. Associate Professor Robert Decker, Associate Professor D. Joseph Stadtmiller and Assistant Professor William Judycki have all given leadership to this effort.

Assistant Professor Alan Chace recently established a GPS datum point/base station on the roof of the Academic Building. This includes an antenna and software which provides any user of GPS technology in a 50-mile radius a reference point for use in determining their location, extremely important for surveying and mapping. Until this development, there had been no such station in our region.

Instructor Brian Judycki has developed two new courses in the area of

continued on page 3

October 18th Open House for New MVCC Nursing Lab - Program Expansion Aided by Funds from Rome Memorial Hospital

MVCC is inviting the community and area health care professionals to visit its new Rome Campus Nursing laboratory on Tuesday, October 18th. An open house from 4:00 p.m. to 6:00 p.m., will also give visitors an opportunity to learn about the new Nursing instruction which began this fall in Rome. The laboratory is located in PC240.

Joining with MVCC in conducting the open house is Rome Memorial Hospital, which has partnered with the College to make the Rome Nursing instruction a reality. The Hospital is providing approximately \$162,000 over five years to fund one of the program's instructors, and is providing clinical opportunities for students. The College renovated the classroom, Room 240 of the Plumley Complex, used as a comprehensive nursing lab at a cost of approximately \$25,000.

The open house will include explanations of the MVCC nursing curriculum, and tours of the new nursing laboratory. There will be demonstrations of SimMAN, a life-sized computer-based teaching mannequin used in both nursing and respiratory care classes at the College. SimMAN allows for simulation of realistic patient scenarios to expose students to a variety of clinical situations. SimMAN is used to teach, challenge and test student clinical skills and decision-making abilities. It simulates breathing and displays lung, heart and other sounds that can be altered. It has a blood pressure that can be measured, and can simulate cardiac rhythms. Students can also perform CPR and defibrillation.

First year Nursing students taking their classes at the Rome Campus will also offer free blood

continued on page 3

Rome Nursing Lab Open House, cont.

pressure screening for visitors, while Respiratory Care students will provide free pulmonary function screening.

MVCC's Nursing curriculum, in both Rome and Utica, leads to the Associate in Applied Science degree. Graduates are eligible for the New York State licensing



examination to become Registered Nurses. The program is approved by the New York State Board of Nursing and the National League for Nursing Accrediting Commission. Nursing courses include emphasis on fundamentals, maternity, mental health and medical surgical nursing. Students also complete courses in human anatomy and physiology, microbiology, and in psychology.

There are also opportunities in the program for Licensed Practical Nurses and Military Medical Technicians to upgrade their credentials.

Engineering, Technology and the Trades, cont.

GIS. One, CT265, Introduction to GIS, is running for the first time this semester. Another, CT266, is a capstone project that will be offered for the first time in Spring 2006.

Assistant Professor William Judycki is presently working on a Web based degree in partnership with CCED and the NYS Association for Superintendents of School Buildings and Grounds. This degree will be an AAS program in Facilities Management.

Professor James Fiore has developed a new course, ET163 Audio Technology, to introduce students to modern audio technologies. Assistant Professor Mario Restive has integrated his product design and global manufacturing experience into the Mechanical Engineering Technology and Manufacturing Production Technology curricula. Professor Restive holds eight U.S. patents, and one international patent, in the area of product design. Assistant Professor Tony Malagese has developed a Non-Destructive Testing Laboratory that has been integrated into the curriculum and has been used by CCED for corporate training.

Several faculty members have developed workshops for CCED leading to Continuing Education Units for professional licensure, including Assistant Professor Margaret Reilly (Project Management), Assistant Professor Alan Chace (GPS), Instructor Brian Judycki (GIS), and Associate Professor John Siegenthaler (Hydronics).

Assistant Professor Bryan Alguire has redeveloped two certificate programs, Machinist Technology and CNC Machinist Technology. Each of these 35 credit hour programs now has multiple student entry points throughout the year, and are self-paced and assessment based, with students moving from one module to another as they document satisfactory mastery of each module. The department is developing a certificate program in Airframe & Powerplant to serve the aviation industry. A 1,900 hour program, it will require approval by the FAA. It will also require substantial facilities, something being discussed by the College and Oneida County.

continued on page 4

Health Center Sponsors Breast Cancer Awareness Events

Breast Cancer Awareness Day is Thursday, October 29th.

On behalf of the Student Health Center, please join us in an informative program on breast cancer on Oct. 29th from 10:00am-2:00pm in the ACC116.

At 11:00am, Mrs. Suzy Burns, RN, Coordinator of the Comprehensive Breast Care Center at Faxton-St. Luke's Healthcare will share information on early detection and the course of treatments for breast cancer. VP DiGiorgio will also speak on "Surviving Breast Cancer." A question and answer period will follow.

Hope to see you there!

On the Rome campus, a display dedicated to breast cancer awareness will be located in the Plumley Complex Atrium on Tuesday, October 18th from 10:00am - 2:00pm

Faculty and Staff in the News

As part of the MVCC Speakers Bureau, **Dr. Sandra Engel**, Head, Humanities, gave a presentation, "Do You Not Have Water Buffalo in Your Province?" at Acacia Village on October 6.

Upcoming Events

Monday, 10/17

~ Brown Bag Lunch Series, "Memorization Techniques," 11:00am and Noon, The Learning Center.
~ Volleyball vs. Hudson Valley CC, 7:00pm, Gym.

Tuesday, 10/18

~ Women's Soccer vs. Cayuga CC, 4:00pm.
~ Nursing Open House, 4:00pm-6:00pm, PC240, PC Atrium, Rome Campus.

Wednesday, 10/19

~ Hospitality Programs Luncheon, theme: "Luncheon in Pompeii: An Eruption of Fine Food," 11:45am, on the Rome campus. Price is \$9.50, call 334-7702 for reservations.
~ China Photo Exhibit by Mei-Hua Sinnott informal discussion, 3:30pm, IT first floor lobby.
~ CCED High School Dual Credit meeting, 3:30pm-5:00pm, PC Atrium, Rome Campus.

~ Lecture: "Ghost Hunter, John Zaffis," 8:00pm, MV Commons.

Thursday, 10/20

~ "Scenery for the Theater: A Critical Approach," by Gary Eckhart, 1:00pm, IT Theater.

Friday, 10/21

~ Banner training, 10:00am-10:50am and 1:00pm-1:50pm, PC205, Rome Campus.

Saturday, 10/22

~ Oneida County Court Judges Town and Justice Training, 8:00am-5:00pm, PCA10.

~ Volleyball vs. Adirondack CC, 1:00pm, Gym.

Monday, 10/24

~ Brown Bag Lunch Series, "Stress and Time Management," 11:00am and Noon, ACC 116.

Tuesday, 10/25

~ Engineering, Technologies and the Trades and Engineering, Computer and Physical Sciences Dept. Open House, 6:30pm-8:30pm, Utica Campus.

continued on page 5

Engineering, Technologies and the Trades, cont.

Associate Professor Tony Malagese, in partnership with the New York, Susquehanna & Western Railroad coordinates Railroad Maintenance Internships at the Railroad's facility on Water Street in Utica.

Faculty members in the Department received outstanding support from Laboratory Technicians Gregory Sydoriv and Paul Halko. They also teach for the Department. Greg teaches MT276 Welders Ornamental Iron & Blacksmithing, while Paul teaches VT133 Refrigeration & Air Conditioning 1. The Department secretaries are Mary Noti, who joined ET&T in August, and Carol Young, who is employed in a part-time position.

Challenges

One of the greatest challenges facing the Department, according to Prof. Przybycien, is that many young people don't think that areas like manufacturing, machining and the trades have a future. "Yet, we receive calls every week from companies, often small and medium-sized employers, looking for people to hire. The truth is that manufacturing is reinventing itself using CNC technology, and automated systems. Traditional machine operators are rapidly being replaced with technicians employed to keep systems running smoothly. Another challenge is the introduction of new materials and processes, in each area of technology. For instance, civil engineering technicians are learning to work with new laboratory procedures to successfully design, construct and maintain highway pavements. New non-destructive testing procedures are being used to measure quality, strength and flexibility. MVCC is involved with a unique partnership with the Department of Transportation to establish a lab using these procedures. Similarly, manufacturers are working with new composite materials, and quickly going from design to testing to manufacturing using computer-based approaches.

In the electrical engineering technology area, programmable logic controllers (PLC's) are being introduced in a wide range of domestic and industrial products. New heating and cooling "smart" systems are using PLC's to adjust themselves in anticipation of changing demands, including weather trends, rather than reacting to them. Today's manufacturing facilities use many PLC's. MVCC students are being prepared in outstanding PLC laboratories. Students in the trades are using technology to such a degree that they are becoming technicians, and are learning how in MVCC's labs. There is a serious shortage of technicians, a challenge for both industry and society.

As 911 and recent hurricanes have shown, reliable communications that don't fail in emergency situations is vital. The communications industry is addressing that need, and will welcome students from our Telecommunications Technology program.

Each of the technologies may have something to contribute to overcoming our over-reliance on fossil fuels, with their cost and pollution challenges.

Changing Education to Meet a Changing World

The world is changing in many ways. Many of those changes are based in technology as it strives to become more effective and efficient. The traditional ways of doing things are being replaced with new technology-based approaches, including entrepreneurship. Graduates of the programs offered in MVCC's Engineering Technologies & The Trades Department will certainly play a role in finding the answers.



SUNY Board to Hold Public Hearing

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518-443-5311

www.suny.edu

For Immediate Release: Tuesday Oct. 11, 2005

Albany – The State University of New York Board of Trustees will hold a public hearing on Nov. 9, 2005 in the Federal Court Room, Third Floor, Federal Building, State University Plaza, Albany at 3:00 p.m. The Public Hearing will be held in conjunction with the Board's Nov. 9 meeting.

The purpose of the State University of New York Board of Trustees Public Hearing is to receive testimony and statements from concerned individuals about university issues.

Persons wishing to present prepared testimony to the Board are requested to write to John J. O'Connor, Vice Chancellor and Secretary of the University, State University Plaza, Albany, New York 12246; such communication to be received no later than noon on Friday, November 4, 2005.

Interested persons are directed to identify in a brief fashion the subject of their testimony and to provide a telephone number, as well as an address, so that the University can confirm a reserved place on the agenda. Such testimony will be limited to five minutes, and speakers are requested to provide six copies of their written testimony to the Hearing Registration Officer on the day of the Hearing.

Those wishing to make brief extemporaneous comments of no more than three minutes are requested to file their names with the Hearing Registration Officer on the day of the Hearing, in advance of the beginning of the Hearing.

Time for such comments will be set aside at the end of the Hearing, and such persons will be called upon in the order in which they register with the Hearing Registration Officer.

The official notice of the Board hearing follows this news release.

The State University of New York is the largest comprehensive university system in the United States, educating more than 412,000 students in 6,688 degree and certificate programs on 64 campuses. To learn more about how SUNY creates opportunity, visit www.suny.edu

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Events

Wednesday, 10/26

~ Hospitality Programs Luncheon, theme: "Auguste Escoffier's Birthday: A Salute to the King of Chefs and the Chef of Kings," 11:45am, on the Rome campus. Price is \$9.50, call 334-7702 for reservations.

~ Movie "What the #*\$! Do We Know?" 7:00pm, IT Theater.

Thursday, 10/27

~ Lecture: "American Cemetery Art," by Frank Calidonna, 7:00pm, Plumley Complex Aud.

Friday, 10/28

~ Murder Mystery Dinner Theater, 7:00pm, ACC 116.

Saturday, 10/29

~ NYSIAAS/MVTI 1948-1960 Grads weekend, 10:00am- after 5:30pm, Utica Campus.

~Gala, with "My Sinatra- The Songs and the Stories," by Cary Hoffman and the Stan Rubin Orchestra, 6:30pm, IT Lobbies and Theater.