

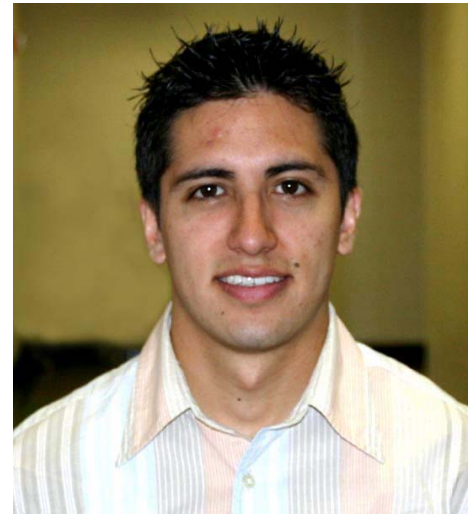
CFT NEWS

NEWSLETTER OF THE DIVISION OF ENGINEERING TECHNOLOGIES AND COMPUTER SCIENCES AT ESSEX COUNTY COLLEGE



Engineering Student Earns Top National Ranking

The Division has had some highly honored graduates in the past but we cannot remember when one of our students has received more awards than did Jose Medina in June 2006. For starters, he finished his engineering degree with a 4.0 GPA and was valedictorian of the Class of 2006. In addition, he was named to the All-USA Community College Academic First Team, a national honor co-sponsored by *USA Today*, the Phi Theta Kappa honor society and the American Association of Community Colleges. Then, in addition to other scholarships, Medina became the first ECC student to earn the Jack Kent Cooke Foundation Undergraduate Transfer Scholarship which was awarded to only 38 students nationally. With this scholarship, he will receive up to \$90,000 for three years of baccalaureate study.



Jose Medina

Medina came with his family to the U.S. from his native Ecuador when he was 14. He chose ECC because the family could not afford a four-year college.

At ECC, he kept busy tutoring students, serving as PTK vice president, Student

Government Association senator and Latino Student Union vice president. He also helped get the Technology Club up and running. After graduation, Medina transferred to Georgia Tech where he is majoring in Mechanical Engineering. So far, his ECC education is keeping him in good stead as he pursues his bachelor's degree.

NSF Grant Helps Students to Succeed

Essex County College has recently been awarded a grant from the National Science Foundation to help increase enrollment, retention, graduation and transfer rates in science, technology, engineering and mathematics (STEM) disciplines. The project, titled "Cultivating the STEM," will provide nearly \$1 million over a five-year period. Students from the divisions of Biology and Chemistry, Engineering Technologies & Computer Sciences and Mathematics and Physics will benefit from a variety of activities through the project.

The project team has already started working to help students. Six faculty members were recommended by the chairs as mentors and four students (current and recent grads) were selected as learning assistants. The faculty members are

Profs. Acquaye (MET), Asobayire (Biology), Assadipour (Engr), Doyle (Chem), Gribbin (CET), and Malandro (Math). The learning assistants are Christopher Earle, Wilson Garzon, Richard Mclean and Olumide Talabi. Ms. Carol Guthrie has been hired as an Academic Advisor to provide additional help to students and to make improvements to the Center.

The faculty members and learning assistants are working in the MESA Center to mentor and tutor students on a regularly scheduled basis. The schedule is posted on the door of the MESA Center, Room T206 in the CFT. The MESA Center is open Mondays through Fridays 8:00 am to 9:00 pm, Saturdays 9:00 am to 4:00 pm and Sundays 9:00 am to 1:00 pm.

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CFT NEWS

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News Brief

Prof. Yue Replaces Prof. Gribbin as Division Chair

After serving five years as Chair of the Division, Prof. John Gribbin has returned to the faculty ranks and Prof. Jianping Yue has taken the reigns. Prof. Yue joined the ECC faculty in 1996 and has served as coordinator of the MET program and has taught engineering courses in addition to MET courses. In 2003-2004, Prof. Yue took a one-year leave from the college to take part in the prestigious NASA Administrator's Fellowship Program.

Prof. Gribbin joined the ECC faculty in 1992 and has served as coordinator of the CET and Energy Utility Technology programs in addition to his service as chair. He now resumes as CET coordinator.

The faculty and staff wish Prof. Yue good luck as chair and are confident that he will guide the Division to new heights of success during his tenure.

Summer Construction Camp Completes Second Year

For four weeks this summer, seventh and eighth graders from the Newark school system learned about the construction trades and civil engineering in the Center for Technology. This was the second year that Prof. Mustapha Sandi led the students in problem solving techniques and lab experiments. Class work was supplemented by on-site visits to construction professionals including the Carpenters, Operating Engineers and Laborers unions. The experience was divided into two parts: for the first two weeks, 20 eighth graders learned the construction trades and for the second two weeks, 40 seventh and eighth graders explored the world of engineering as a career in a multi-disciplinary class titled "Those Amazing Engineers."

The program, directed by Betty Foster, is a joint venture of the Minority Science & Engineering Program funded by the U. S. Department of Education and the Construction Industry Advancement Program (CIAP) of New Jersey. CIAP provides curricula, materials and coordination with the trade

unions.



Dr. Lee Pisauro, CIAP Education Director, supervises a group of eighth graders during the summer engineering camp.

Seminar Series

On March 28, 2006, Prof. Jonathan Weissman presented a seminar titled "Web Page Design" in the lower atrium of the CFT. Prof. Weissman, who was an adjunct instructor in the Math & Physics Division at the time, is an expert in web page design. He addressed an audience of students and faculty from the ECC community.



Prof. Weissman is now a full-time faculty member in the Computer Science Department at Finger Lakes Community College in upstate New York.

On October 18, 2006, Mr. Jeffrey Chien of Lucent Technologies presented a seminar in the CFT called "How to Prosper in the Age of Internet."

Attention Students!
Use the MESA Center
to study and
to get tutoring.

MESA Center Open 7 Days per Week

68 CFT Students Graduate in 2005-2006 Academic Year

When Essex County College held its thirty-seventh annual commencement on June 4, 2006, students in the Engineering Technologies & Computer Sciences Division proudly went to the podium to receive their degrees and certificates. Others received degrees and certificates in August and December 2005 for a total of 68 students. Following is a list of those students.

Applied Computer Science AS:

Sherry Hampton, Joel Walcott

Architectural Technology AAS:

Sharif Abdou, Taiwo Adelani, Miguel Diaz, Jenifer Hiraldo, Carine Sow, Djony Defendre, Dara Piepoli

Civil Const. Engr. Tech. AAS:

Jean David Lochard, Cesar Costales, Ahmed Salaheldin

Computer Aided Design Tech. Cert:

Patrick Codjoe, Djony Defendre, Arnold Sharif

Computer Information Systems AS:

Rosanne Chastanet, Luis Molina, Loise Muita, Jean Remy, Aaron Cervas, Claudia Gonzalez, Mariusz Grzyb, Marlando Hall, Eric Mwambaji, Ramon D'Aguiar, Ritesh Shasti

Computer Science AS:

David Hreben, Jean Laurier, Christina Navarez, Seung Jeong, Charles Lukoba

Electronic Engineering Technology AAS:

Carlton Brown, Todd Hood, Jose Claire, Mario Lima, Oluwaseyi Odewade, Junior Saltibus, Edward Ulerio, Yetunde Adelekan, Lincoln Black, Luis Yupangrui

Energy Utility Technology AAS:

Jean Pierre, Monique Wade, Patrick Codjoe, Kodjo Agbenou, Sheldon George, Javier Solis, Jameel Black, Brenda Broadnax

Engineering AS:

Gitau Irungu, Renato Sunga, Ahmed-Tijani Agwedicham, Andres Ceron, Thuan Duong, Eraclis Eracleous, Pier Gamboa, Joshua Henry, Nelton Lewis, Jose Medina, Jose Quepuy, Hanyu Zhang, Alvaro Hernandez, Gladys Durand

Mechanical Engineering Tech. AAS:

Marc Sullivan, Emmanuel Ntim, Andrew Otto, Donovan Holtz, De-jerson Jean-Charles

These students persevered through several semesters of academics combined in many cases with the rigors of full time employment and other responsibilities and their hard work paid off. We extend our congratulations to them and wish them success in their further education and in their careers

CFT Students Earn Awards

Academic year 2005-2006 was a good one for students in the CFT. In addition to Jose Medina, several other students received awards of various kinds.

Two students were named Assistant Marshals for the Class of 2006. They are Christina Narvaez (Computer Science) and Jose Quepuy (Engineering). The same two students were the winners of the Charles A. Jones Memorial Scholarship (Division Scholarship) and received \$500 each.

The winners of the Sixth Annual CAD Contest were James Schack (Engineering) - First Place (\$200), Chris Gudderni (CET) - Second Place (\$100), Yoon Ho Nam (EET) - Third Place (\$50) and Gabriel Guzman (CET) - Honorable Mention.

Five students were selected to the Stevens-

ECC NASA summer research program for summer 2006. The students are: John Lin (Computer Science), Larisa Kudeliuviene (Engineering), Ouefae Alloul (Engineering), Ahmed Agwedicham (Engineering) and Yves Nguewa (Engineering).

Eleven students were accepted to the NJIT Albert Dorman Honors College for Fall 2006. The students are:

Yetunde Adelekan (EET)
Ahmed Agwedicham (Engineering)
Ouafae Alloul (Engineering)
Fritz Aly (Engineering)
Andres Ceron (Engineering)
Thuan Duong (Engineering)
Gladys Durand (Engineering)
Farrah LaFortune (Engineering)
Nelton Lewis (Engineering)
Mario Lima (EET)
Jose Quepuy (Engineering)

CFT Welcomes New Faculty Member



Prof. Jinsoo Park

Prof. Jinsoo Park became the newest full-time faculty member of the Division in September 2006 replacing Prof. Bernard Zivotofsky who retired last year. Prof. Park is an assistant professor of Electronic Engineering Technology and will also be the coordinator of that program. He holds a Ph.D. degree in electrical engineering from Polytechnic University, Brooklyn, New York. His bachelors and masters degrees were earned in Korea which is his native country.

Prof. Park was an adjunct professor of physics at ECC before becoming a full time faculty member. He also taught mathematics at area high schools. He has worked as a telecommunications engineer and

researcher both here and in Korea.

Prof. Park has authored and co-authored several journal articles and many conference publications. He has reviewed more than twenty technical papers submitted to journals. His principle area of research has been in the design and analysis of electronic switches. Together with a colleague, he holds several patents related to his research.

Prof. Park has developed several college courses involving switching systems and telecommunications.

The faculty and staff of the CFT are very pleased to welcome Prof. Park to the Division.

GIS Certificate and Seminars Offered

In the Spring 2006 semester, a new certificate program called Geographic Information Systems (GIS) was approved by the college. The program, coordinated by Mr. Keith Hollman, is based in the CFT. GIS deals with the use of mapping to aid such activities as homeland security, law enforcement, economic development and engineering.

In addition to academic courses, the program offers non-credit seminars to interested people in industry. Five public safety agencies from the area attended the first GIS seminar on Homeland Security. The agencies included the Newark Police Department and the Essex County Sheriff's Office. The training centered on the application of

GIS software for map creation and critical analysis for the five missions of Homeland Security strategic planning, namely, risk assessment, mitigation, preparedness, response and recovery.

Mr. Hollman said that GIS training (coupled with the appropriate GIS industry certification) enables people to enter this new multi-billion dollar industry in both the public and private sectors. GIS is used as part of the mapping and surveying process in such areas as groundwater remediation, market research, regional planning, site preparation prior to construction and ecosystem analysis.

ABET Team Visits CFT

In October 2006, a team of evaluators from the Technology Accreditation Commission (TAC) of the Accreditation Board for Engineering and Technology (ABET) visited the CFT to continue the accreditation process that was started in 2005. Three programs are being accredited: Civil Construction Engineering Technology (CET), Electronic Engineering Technology (EET) and Manufacturing Engineering Technology (MET).

The team consisted of Carol Richardson, team chair, from Rochester Institute of Technology, Albert Wahle, CET, from Sinclair Community College, Branislav Rosul, EET, and Wilson Liang, MET, from

Indiana University.

The team met with faculty, administration and selected graduates and reviewed displays of student work supporting outcomes assessments by the Division. They issued a preliminary report of their findings which outlines additional measures for the Division to take to assure full accreditation in July 2007.

ABET is the sole agency in the United States responsible for accreditation of educational programs leading to associate and baccalaureate degrees in Engineering Technology.

