

CFT NEWS

Newsletter of the Division of Engineering Technologies and Computer Sciences at Essex County College

Professor Zivotofsky Retires After 34 Years

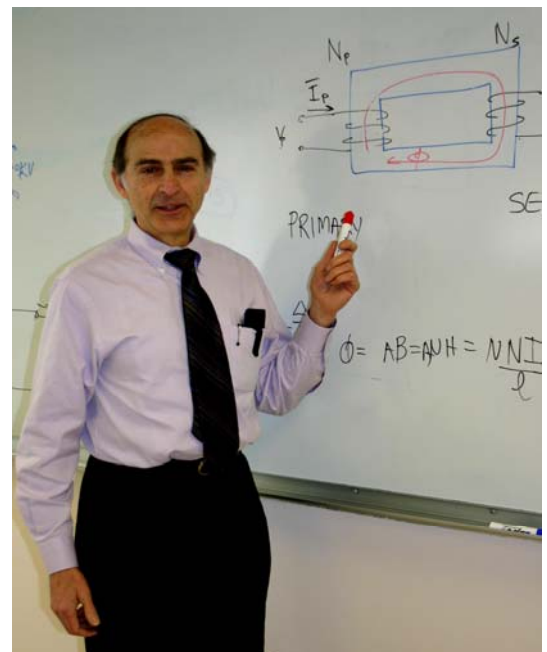


Following on the heels of Prof. Tekel who retired in 2004, Prof. Bernard Zivotofsky has become the second long-time member of the Division to depart. Prof. Zivotofsky created the Electronic Engineering program in 1971 and has been at its helm ever since, a period of over three decades. His departure leaves a gaping hole in the program and in the Division as well.

When Essex County College was only about three years old, the Physics Department was asked to begin a program in electronic engineering technology that would prepare students for immediate employment or for transfer to a baccalaureate program. Prof. Zivotofsky, who had 12 years experience as an engineer in the aerospace industry, was brought on board to develop the program. He immediately set out to do just that, designing eight courses covering the basic principles of electrical and electronics theory and their applications, including electric power, computational electronics and communications electronics. Each course featured a lab component with equipment furnished by grants, primarily NSF, and internal college funding.

Prof. Zivotofsky continued his studies and in 1985 earned a doctorate in Electrical Engineering from NJIT. From 1988 to 1990, he served, on a part-time basis, as assistant chair of the Bachelor's degree program in Electrical Engineering Technology at NJIT into which many ECC graduates transfer. At Essex County College, in addition to coordinating the Electronic Engineering Technology program, he served on college-wide committees including Curriculum and Academic Standards.

The Engineering Technologies & Computer Sciences Division recognizes the contributions Prof. Zivotofsky has made over the years. We will miss him and we wish him happiness in his new life in retirement.



Inside this issue:

News Brief	2
78 CFT Students Graduate in 2004-2005 Academic Year	3
ABET Grants Accreditation to Three Programs	3
Seminar Series	3
MET Students Participate in NASA Related Research	4
CFT Welcomes New Faculty Member	4



303 University Avenue
Newark, NJ 07102

CFT NEWS

Editor : Prof. Prof. Veronica Zhang

Production: Prof. Prof. Veronica Zhang

Committee: Prof. Jianping Yue
Prof. Ned Wilson
Prof. Mark Galit
Prof. Judy Glina
Prof. Veronica Zhang

Division Chairman:
Prof. John Gribbin

Engineering Technologies & Computer Sciences Division:

Faculty

Prof. Theo Acquaye - Mechanical Engineering
Prof. Hossein Assadipour - Engineering
Prof. Mark Galit - Computer Science
Prof. John Gribbin - Civil Construction
Prof. Mustapha Sandi - Civil Construction
Prof. Judy Glina - Architecture
Prof. Karen Scourzo - Computer Science
Prof. Alvin Williams - Computer Science
Prof. Ned Wilson - Computer Science
Prof. Jianping Yue - Mechanical Engineering
Prof. Veronica Zhang - Computer Science

Staff

Ms. Kelly Coley - Office Manager
Ms. Staci Outerbridge - Lab Coordinator
CFT Phone 973-877-4400

Essex County College
www.essex.edu

News Brief

CFT Students Earn Scholarships

Several Division students received scholarships to help further their college education during the 2004-05 academic year. Paul DeRobertis (*Civil Construction*) and Kathryn Spittle (*Computer Science*) were the winners of the Charles A. Jones Memorial Scholarship (formerly the ETCS Division Scholarship) and received \$500 each. Also, Renato Sunga (*Engineering*) won a Construction Roundtable scholarship worth \$2,500 and Andrew Otto (*Mechanical Technology*) won a scholarship from the Research & Development Council of New Jersey and received \$1,500. Winners of the Fifth Annual CAD Contest were: Ramon Landestory (First Place \$200), Innocent Andy (Second Place \$100), Ricardo Zarate and Christian Alvarado (Honorable Mention).

Energy Utility Technology Program Begins Third Year

In 2003, Essex County College developed, in partnership with Public Service Electric & Gas Co. (PSE&G), a new A.A.S. degree program titled "Energy Utility Technology." A cohort of sixteen students started the program in Spring 2004 and a second cohort of twelve started in Fall 2004. The third cohort will begin courses in Fall 2005. Among the first cohort were several ECC students already majoring in other programs such as Electronic Engineering Technology. These students had a head start toward their degrees in EUT and consequently two students graduated in June 2005. But in addition to the graduates, five students from the first cohort were hired by PSE&G in Fall 2004 and Spring 2005. The new hires represent the fulfillment of the primary attraction of the program: employment as a technician at PSE&G.

In Spring 2005, the program expanded to two Newark high schools, Technology High School and the Essex County Vocational Schools. Also, an agreement was made

between ECC and PSE&G to transfer training credits of current PSE&G employees to the EUT program so that they can earn the Associate degree. So far, three PSE&G employees have transferred their credits and started the program.

Seventh and Eighth Graders Learn Construction Trades & Engineering

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. Led by Prof. Mustapha Sandi, the students participated in problem solving techniques and lab experiments in class 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 was a joint venture of the Minority Science & Engineering Program funded by the U. S. Department of Education and directed by Betty Foster and the Construction Industry Advancement Program (CIAP) of New Jersey. CIAP provided curricula, materials and coordination with the trade unions.



78 CFT Students Graduate in 2004-2005 Academic Year

When Essex County College held its thirty-sixth annual commencement on June 5, 2005, 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 2004 for a total of 78 students. Following is a list of those students.

Applied Computer Science AS:

Brian Woodward

Architectural Technology AAS:

Jefte Chavarria, Jacob Loucks, Brent Murphy, Jozef Szarlej, Cecilia Cano, Nikisha Powder

Civil Const. Engr. Tech. AAS:

Andrew Bliss, Judes Belony, Paul DeRobertis, Gustavo Luna, Keisha Thomas, Ramazan Uzulmez

Computer Aided Design Tech. Cert:

John Corleone, James Mora, Adebayo Atunrase, Bill Karp, Garth King, Dmitry Melitchkin, Judes Belony, Baba Beye, Karla Gallardo, Eduardo Garcia, Alvaro Hernandez

Computer Information Systems AS:

Damaris Mercado, Dalton Oscar, Melih Artar, Qesi Hubbard, Obika Mgbemena, Lupe Moya, Juana Ramos, Louis Shaw, Rosa Fajardo,

Kahleela Gordon, Jean Laguerre, Jamar Melton, Jannae Sykes

Computer Science AS:

David Arce, Gisella Arista, Turgut Kolcalar, Miguel Layme, Arlette Santana, Ilker Tanli, Muharrem Aker, Devon Facey, Kathryn Spittle, Wandy Romain

Electronic Engineering Technology AAS:

Lilian Mwangangi, Moses Ndelek wute, Massah Sorsor, Ricardo Tilus

Energy Utility Technology AAS:

Patrick Codjoe, Jean Pierre

Engineering AS:

Manuel Fernandes, Kuntalkumar Patel, Asif Alli, Esteban Perez, Robert Aferri, Adebayo Atunrase, Jean Belcourt, Laura Cabreja, Michael Davila, Christopher Earle, Maria Erazo, Milton Flores, Mike Loiseau, Wendy Paredes, Olumide Talabi, Olufunso Talabi, Gbenga Oyawusi, Joanna Powdhar

Manufacturing Engineering Tech. AAS:

Cristian Alvarado, Wayne Crosse, Carl Diaz

Mechanical Engineering Tech. AAS:

Andy Innocent, Donald Paul, Floyd Bristol, Paul Haro

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

ABET Grants Accreditation to Three Programs

In July 2005, three Engineering Technology programs in the Division received accreditation from the Accreditation Board for Engineering and Technology (ABET). Civil Construction Engineering Technology (CET) and Manufacturing Engineering Technology (MET) received re-accreditation while Electronic Engineering Technology (EET) was accredited for the first time. Accreditation, which is effective through the year 2007, is based on self-study reports prepared for each program and a campus visit in Fall 2004 by a team of evaluators from the Technology Accreditation Commission of ABET. In Fall 2006, the Division will be visited again to resolve any problems resulting from the visit in 2004.

ABET accreditation is a nationally known and accepted accreditation of college engineering technology programs. Programs at NJIT which accept graduates of ECC's CET, MET and EET programs are also ABET accredited.

Seminar Series

On 3/24/05, a seminar was presented in the lower atrium of the CFT. The seminar, presented by Ms. Usha Change, and titled "internet Technology" explored the interaction between new technologies and current internet policy issues. The seminar was arranged by Prof. Veronica Zhang.

MET Students Participate in NASA Related Research



Two students in the Manufacturing/Mechanical Technology Program participated in NASA related research in the summer.

After one year resident research at NASA Langley Research Center as a NASA Administrator's Fellow, Professor Jianping Yue received a \$25,000 NASA Administrator's Fellowship Program (NAFP) research award last year. He has used the grant to continue the NASA related research, improve the curriculum, and get students involved in the research at Essex County College (ECC).

The research topic, "optimum machining parameters," is part of a NASA research project, "lights-out manufacturing," at Langley Research Center. The unattended automatic machining will efficiently produce high precision one-of-a-kind aerodynamic models for wind tunnel experiments. Professor Yue and his students worked in ECC's computer-integrated manufacturing laboratory using computer numerical control (CNC) lathe and milling machines to collect data on cutting speed, feed rate, and depth of cut. The two students who participated in the project as research assistants are Cristian

Alvarado and Carl Diaz. They were excited about the opportunity of participating in a NASA related research project, and glad that they were able to use the knowledge and

skills they learned from the manufacturing and CNC courses at ECC to conduct the experiments. They reported the research better prepared them for advanced level engineering education and inspired them to pursue a career in the field. As one of the students wrote, "[through] this project, I have learned new things [such as] taking data and pictures in details to ensure the accuracy of our final statements. Doing this research project has greatly improved my studies in manufacturing engineering."

The NAFP program is administrated by the United Negro College Fund Special Programs (UNCFSP) Corporation. During a recent visit to ECC, Mr. Gilbert Knowles, NAFP Program Manager, praised ECC's effort to recruit minority students into science, technology, engineering, and mathematics programs, and engage them in NASA related research.

(An article submitted to the *CFT News* on July 14, 2005. Revised on October 18, 2005)

CFT Welcomes New Faculty Member



Prof. Judy Glina became the newest full-time faculty member of the Division in September 2005 replacing Prof. Rosa Otero who resigned last year. Prof. Glina, who has taught architecture courses as an adjunct professor, becomes an assistant professor of Architectural Technology and will continue the work started by Prof. Otero in overhauling that program. Prof. Glina holds a Master of Architecture degree from New Jersey Insti-

tute of Technology and a Bachelor of Arts in Mathematics from Boston University. Her experience includes positions at various architectural firms such as the Liebman Partnership where she was project architect. She also worked at the Hillier Group in Newark and Gensler Architects in Parsippany. The faculty and staff of the CFT are very pleased to welcome Prof. Glina to the Division.