

CFT NEWS

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



The faculty and staff of the Engineering Technologies and Computer Sciences Division mourn the loss of our esteemed colleague, Dr. Jianping Yue. (Full story in next issue.)

ABET Accreditation Renewed for Engineering Technology Programs

At its summer meeting held in July 2011, the Technology Accreditation Commission (TAC) of ABET, Inc. granted continued accreditation to three Engineering Technology programs at Essex County College. The accredited programs are Civil Construction Engineering Technology (CET), Electronic Engineering Technology (EET) and Mechanical Engineering Technology (MET).

A team of evaluators from ABET visited the ECC campus in November 2010 and issued a preliminary statement of their findings. (See *CFT News* Spring 2011.) During their visit, the team reviewed curriculum and instructional materials as well as samples of student work. The team also interviewed faculty, students, alumni, Industrial Advisory Board members and key administrators.

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Division Welcomes New Chairman

The Division welcomes Prof. Ravi Manimaran as the new full-time chairman. Prof. Manimaran, who assumed his duties in August, succeeds Prof. John Gribbin who has returned to faculty.

Prof. Manimaran has expressed his pleasure with his new job here at ECC. "I am excited to be a part of a team of dedicated faculty and staff and look forward to contribute to the Division's success," he said. The faculty and staff of the CFT are very pleased to welcome Prof. Manimaran to the Division.

Following an exhaustive nationwide search, Prof. Manimaran was selected from a pool of six finalists. Faculty and staff are pleased that he has hit the ground running and look forward to a productive relationship in the future.

Prof. Manimaran earned a master of science degree in electrical engineering from West Virginia University and a master of science degree in electronics and control engineering from Birla Institute of Technology, Pilani, India.

Before arriving at ECC, Prof. Manimaran was responsible for the Electrical & Sustainability Energy track in the Engineering Technology Program at Black Hawk College at Moline, Illinois. He was also the principle investigator for the two-year NSF grant "Innovations in Engineering Technology Education."



Prof. Ravi Manimaran

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CFT NEWS

Editor : Prof. John Gribbin

Production: Prof. John Gribbin

Division of Engineering Technologies & Computer Sciences:

Division Chairman:

Prof. Ravi Manimaran

Faculty

Prof. Theo Acquaye -
Mechanical Engineering Technology
Prof. Hossein Assadipour - Engineering
Prof. Alkis Dimopoulos—Engineering
Technology
Prof. John Gribbin - Civil Construction
Engineering Technology
Prof. Ned Wilson - Computer Science
Prof. Jianping Yue -
Mechanical Engineering Technology

Staff

Ms. Kelly Coley - Office Manager
Ms. Staci Outerbridge - Lab Technician

Coordinators

Dr. Meimei Gao—MESA Center
Prof. Don Yee—STEM Program
Ms. Lei Shi—STEM Program

CFT Phone 973-877-4400

Essex County College
www.essex.edu

News Brief

Articulation Agreement

The Division successfully negotiated a new articulation agreement with New Jersey Institute of Technology for the Engineering program here. According to the agreement, graduates of our Engineering program can transfer to several engineering programs at NJIT including biomedical, chemical, civil & environmental, computer, electrical, mechanical and industrial. The agreement, which went into effect in May 2011, specifies the ECC courses that transfer directly to NJIT. As a result, the Division has been able to revise the Engineering program to reduce the total number of credits required. See next story.

Curriculum Changes

During the Fall 2011 semester, the Division made some significant changes to the Engineering program. Among the revisions is the elimination of two computer science courses, CSC 121 and CSC 122. In place of these courses, Engineering majors will take CSC 112 which is geared to engineering and not to computer science. Engineering majors interested in computer engineering will also take CSC 112.

Also, the elective courses have been made more clear so that students will be able to more easily choose electives suitable to their interests. The total number of credits has been reduced by two credits.

Summer Construction Camp

The Summer Construction Camp completed its seventh year this past summer. The program, directed by Betty Foster, is a joint venture of the Talent Search Program funded by the U.S. Dept. of Education and the Construction Industry Advancement Program (CIAP) of New Jersey.

Manufacturing EXPO

On June 7, 2011, seven MET students travelled to the Jacob Javits Convention Center in New York City to attend the Atlantic Design & Manufacturing Expo. Profs. Theo Acquaye, Robert Leone and Lab Technician Staci Outerbridge accompanied the students. At the expo, the students saw the latest developments in advanced manufac-

turing, product design and packaging. Everyone described the event as very informative.

Summer Bridge Program

Led by MESA Center coordinator Dr. Meimei Gao, sixteen first-year STEM students visited NJIT to learn about the engineering programs there and to tour some of the labs. The trip, held on June 2, 2011, was part of the NSF Summer Bridge Program. Representatives from four programs, Electrical and Computer Engineering, Engineering Technology, and Civil and Environmental Engineering, introduced their programs. Students asked questions about transfer and career planning.

CFT Gets Wireless Internet

During the summer the Information Technology Department installed a secure, top of the line wireless internet service in the CFT. The installation, which is part of a campus-wide upgrade, has been completed and is available for students and staff. Thanks to the upgrade, students have access to ECC network resources and internet by connecting their mobile devices (laptops, etc.) to ECCWIRELESS using the same credentials as they use to access the ECC portal (myecc.essex.edu).

Stickley Design Invitational

On April 16, 2011, Fred Sotelo (Architecture) attended the Stickley Design Invitational, a one-day program of lecture and competition in which architecture students from eleven New Jersey county colleges and high schools worked on a design problem involving sketches and a 3-D model. The event, sponsored by the Stickley Museum and the Robert Busch School of Design at Kean University, took place at the museum in Morris Plains, New Jersey.



Fred Sotelo working on his model

99 CFT Students Graduate in 2010-2011 Academic Year

When Essex County College held its forty-second annual commencement on May 20, 2011, 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 December 2010 and August 2010 for a total of 99 students. Following is a list of those students.

Applied Computer Science AS:

Allan Goncalves, Sada Regtounda

Architectural Technology AAS:

Moustafa Abouelmagd, Sebastian De Leon, Na'Shawn Jordan, Serge Laforest, Sebastian Medina, Belen Neira, Wadler Georges

Civil Const. Engr. Tech. AAS:

Matias Alicata, Michael Cervas, Shaka Deane, Camila Grillo, Juan Hincapie, Kennedy Myers, Jean Pierre SaintJean

Computer Aided Design Tech. Cert:

Robert Bijak, Trahern Jeffrey, Na'Shawn Jordan, Liverache Perez, Rafael Polanco, Ricardo Rodriguez, Yolán Scott, Edgar Trindale, Marthinus Van Ramshorst, Nnbuchi Weli

Computer Information Systems AS:

Olubukola Abayomi, Qudus Anjolaiya, Alex Davila, Ashaad Evans, Kemoy Gorousingh, John Harris, Rudolph Inniss Jr. , Marlyn Lizama-Blanco

Computer Science AS:

Aland Chang, Anthony Enriquez, Melvin Fernandez, Jose Garcia, Hector Men-

doza, Ajaykumar Patel, Rahul Patel, Pamela Pena, Supritkumar Shah, Karn Tongaree, Alayna Whitten, Jayson Young

Electronic Engineering Technology AAS:

Rogers Akombe, Richard Akuaku, Wilfred Alexander, Dario Barzola, Marlon Celi, Luis Fernandez, Hugh Forbes, Eric Johnson, Saibou Kaba, Jean Lucien, Michael Meggo, Oboima Okafor, Daniel Olaya, Yannick Pilgrim, Curren White, Juluadweh Wren, Mathieu Zida

Energy Utility Technology AAS:

Raul Camacho, Odner Lapaix, Moses Famakinwa, Johnson Olanrewaju, Troy Purcell , Ezequiel Velez

Engineering AS:

Gideon Adediji, David Aviles, Abdullah Benjelloun, Ketler Cajuste, Mahamadi Compore, Jessica Coronel, Eduardo Cristofolli, Douglas Matoke, Douglas Nascimento, Ronald Ortega, Chandreshkumar Parsana, Liverache Perez, Katherine Ramos, Vinicio Sulca, Immanuel Sunga, Koffi Trenou, Edgar Trindale, David Valdez, Jason Williams

Mechanical Engr. Tech. AAS:

Maria Barragan, Melanie Brown, Sachinkumar Dave, Manuel Galindo, Luciano Meireles, Geordan Smith, Raphael Tavares

Renewable Energy Tech. Cert:

Alexander Cortes, Ezequiel Velez

Technical Studies/Uniform Construction Code AAS:

Joseph Doll, Girard Ford

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

Computer Science major, Ajaykumar Patel, was selected to be the Salutatorian of the Class of 2011.

The winners of the Division Scholarship were Ajaykumar Patel (Computer Science), Camila Grillo (CET) and Moustafa Abouelmagd (Architecture) who each received \$500.

The winner of the twelfth annual CAD Contest was Rafael Polanco who received \$200 supplied by the Construction Industry Advancement Program of New Jersey.

Two students received scholarships valued

at \$1,500 each from the Construction Industry Advancement Program (CIAP) of New Jersey. The students, majoring in CET, are Daniela Navarro and Chris Kidangan. The awards are intended to help the students further their education in Civil Construction Engineering Technology.

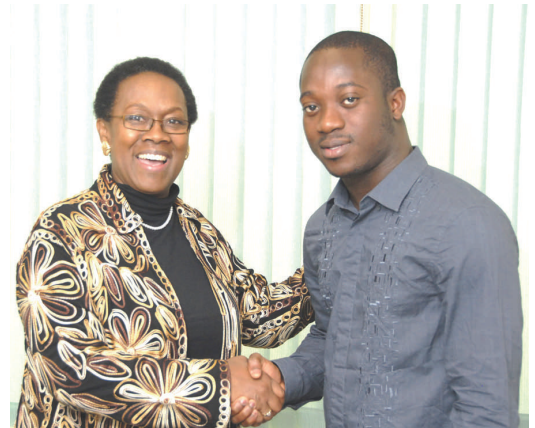
One Engineering student, Teuguia Kouam, was a winner of the ECCFA scholarship.

Juan Hincapie (CET) was selected to participate in the CIAP Internship Program in Summer 2011. He also received a scholarship of \$3,500.

Academic year 2010-2011 proved to be a typically good one for awards won by our students in the CFT. Several graduating students won awards of varying types.

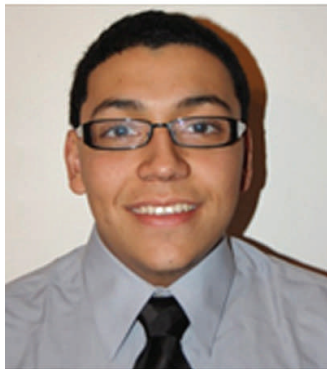
Engineering Student Earns Trip to NASA

Engineering major Koffi Trenou was selected as one of 48 two-year college students to participate in the National Community College Aerospace Scholars program in NASA's Johnson Space Center in Houston, Texas. The three-day event was held in May 2011. Mr. Trenou's mission in Houston was to work with other team members to form fictitious companies pursuing Mars exploration and developing a prototype rover. The rover was then tested on a Mars simulative course. He did an excellent job and was a great team member to his team. Mr. Trenou, a member of Phi Theta Kappa at ECC, is now attending Stevens Institute of Technology.



President Abdullah congratulates Koffi Trenou

CET Student Completes Internship



Juan Hincapie

In Spring 2011, Juan Hincapie was awarded the Edward O. Davis Memorial scholarship and internship by the Construction Industry Advancement Program (CIAP) of New Jersey. For his internship experience, Mr. Hincapie worked for Perrello, Inc., a heavy construction contracting company located in Lake Hopatcong. The amount of his scholarship was \$3,500.

For twelve weeks during Summer 2011, he was in charge of putting together material take-offs, checking the quality of materials and filling out bids for several jobs. Towards the end of the internship, he was put in charge of a project in New York City involv-

ing the sweeping of highways including the Staten Island Expressway, Prospect Parkway and the Bronx-Queens Expressway.

Mr. Hincapie is now pursuing his bachelor's degree in Civil Construction Engineering Technology at NJIT and expects to graduate in Spring 2013. He expects to start a masters degree program after spending a few years working in industry.

He is currently working at AA Richards, an HVAC firm in Hazlet. He is in the solar energy division. One of his colleagues there is Angela Balsamo who also attended the CET program at ECC.

ABET Accreditation Renewed

(Continued from Page 1)

After receiving the final ABET statement, the Division submitted a response including additional materials and student samples. Each of the three programs received full accreditation.

The ABET committee consisted of Profs. Theo Acquaye, Hossein Assadipour, Alkis Dimopoulos, Jinsoo Park and John Gribbin. The committee wishes to extend thanks to

all those in the ECC community who helped the Division obtain the accreditation

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

