

CFT NEWS

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

Professor Tekel Retires After 35 Years

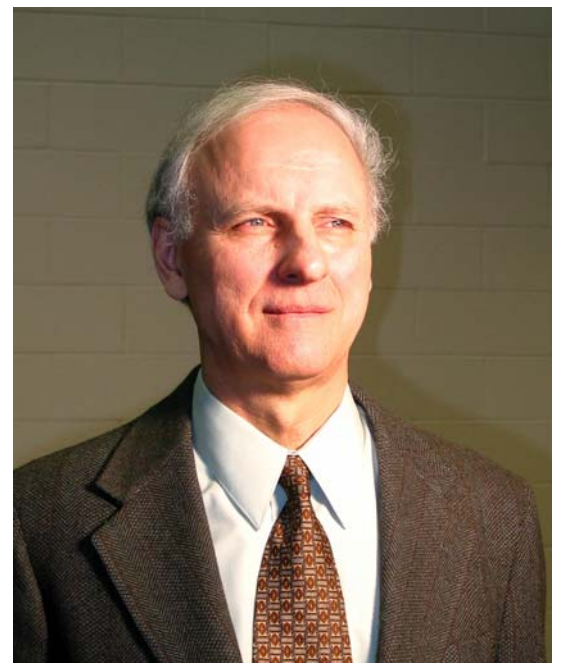
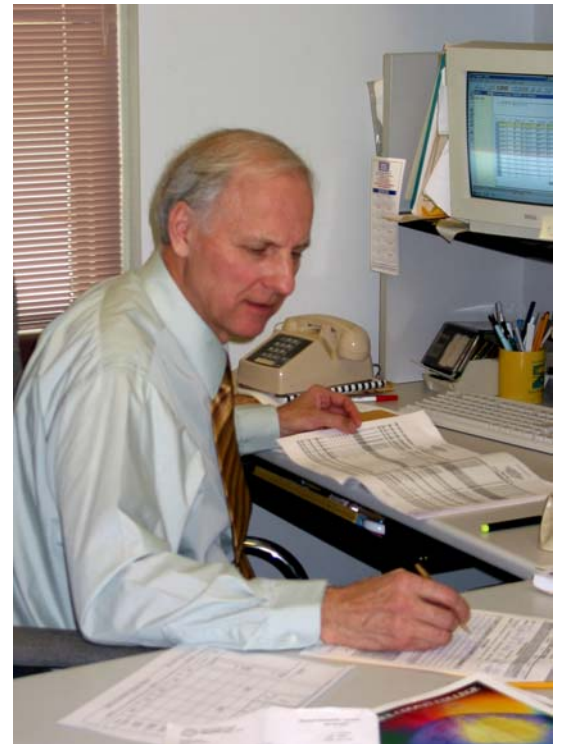
Prof. Kenneth Tekel was always willing to spend time with a student solving a problem related to the student's program or giving help on one of his courses. Prof. Tekel was a mainstay of the Division for over three decades and now that he has retired will be sorely missed.

Prof. Tekel arrived at ECC in 1968 as a professor of Mathematics and in 1970 became Chairperson of the Department of Mathematics. In 1971, he returned to faculty where he taught all the then existing Math courses and presented several more Math courses to the College for adoption. From 1982 to 1984, Prof. Tekel served as assistant Division Director for Engineering and Physics. During this time, he wrote and administered a grant for \$130,000 for a 50-station Math and Science Computer Lab.

In 1986, Prof. Tekel became Chair of the Engineering Department where he served until 1990. During this time, he created the CAD course, ENR105, and was the first instructor. In 1990, he once again returned to faculty where he taught many of the ENR, CIS and CSC courses. He became coordinator of the Engineering program in 1997 and diligently developed the program until his retirement this year. He authored the articulation agreement with NJIT and worked tirelessly to advise students in this complex program.

During his time here at ECC, Prof. Tekel worked on many projects in addition to his teaching assignments. He wrote many computer programs used by students as well as by the College for scheduling; he directed or was president of various educational organizations; and he even served as president of his home town Board of Education.

The Engineering Technologies & Computer Sciences Division is very proud to have had Professor Tekel as a member and we are grateful for his leadership and contributions to the Division and to ECC.



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CFT NEWS

Editor & Production: Prof. Rosa D. Otero

Committee: Prof. Mark Galit
Prof. Rosa Otero
Prof. Ned Wilson
Prof. Jianping Yue
Prof. Veronica Zhang

Division Chairman:
Prof. John Gribbin

**Engineering Technologies & Computer
Sciences Division:**

Faculty

Prof. Theo Acquaye–
Mechanical Engineering
Prof. Houssein Assadipour– Engineering
Prof. Mark Galit– Computer Science
Prof. John Gribbin–Civil Construction
Prof. Charles Jones– Computer Science
Prof. Rosa Otero– Architecture
Prof. Karen Scurozo– Computer Science
Prof. Kenneth Tekel– Engineering
Prof. Alvin Williams– Computer Science
Prof. Ned Wilson– Computer Science
Prof. Jianping Yue– Mechanical Engineering
Prof. Veronica Zhang– Computer Science
Prof. Bernard Zivotofsky–
Electronic Engineering

Staff

Ms. Kelly Coley- Office Manager
Ms. Staci Outerbridge– Lab Coordinator

CFT Phone 973-877-4400

Essex County College
www.essex.edu



News Brief

FIRST STUDENTS ENROLL IN ENERGY UTILITY TECHNOLOGY PROGRAM

On Friday, January 23, 2004, sixteen students attended the first class meeting of UTI 101 "Introduction to the Energy Utility Industry" at the PSE&G Training Center in Edison, New Jersey. All of these students then moved on to the next course, UTI 102. In May, they will participate in an apprenticeship course with PSE&G and in the summer, they will enroll in a ten-week internship. PSE&G instructors report that so far everyone is doing very well in their course work.

In September, 2004, UTI 101 and the other UTI courses will be offered again for another cohort of students who wish to enroll in the program. All interested potential students should inquire at the CFT to find out how to get started in the program. Call 973-877-4400 or 973-877-3454.

NEW EQUIPMENT

Architecture students are now able to display their projects on the recently installed bulletin board located on the second floor between rooms T205 and T204. In addition, a large tackable surface is going to be installed on the walls of the architecture studio (room T205) later this semester.

MUSIC AND ARCHITECTURE

Last semester, architecture students enrolled in ARC 101 (Architectural Design I) designed a project for a hypothetical exposition in Branch Brook Park. The theme of the event was music. As part of the project students visited the park in order to capture its essence by means of drawings and photographs. (See picture on page 4.)

HP WIRELESS MOBILE CLASSROOM—UPDATE

Last Spring, the CFT received a Hewlett-Packard Grant which provided the CFT with a Wireless Mobil Classroom, consisting of 35 laptop computers and a mobile instructor's station. This new technology is currently used in courses such as architectural history and engineering graphics by Professor Otero and Professor Acquaye respectively. Both professors attended a two-day training session on the use of Discourse software which is an intrinsic tool in the use of the system. This new modality seems to be very well received by students.

The Power Behind
a Better Career

Associate
Degree Program
in Energy Utility
Technology

ECC Essex County College PSEG We make things work for you.

Get started on a career in
one of New Jersey's most
essential industries and
earn money for college
during the summer.

ECC Essex County College PSEG We make things work for you.

ENERGY UTILITY TECHNOLOGY

This exciting new two-year program which features
a partnership between ECC and PSE&G
is moving into its second year.

If you are interested,
please plan to attend the
INFORMATION MEETING

**THURSDAY, APRIL 22, 2004
2:30 PM**
here in the CFT.

People from PSE&G will be here
to explain the program and to answer questions.

ECC Essex County College PSEG We make things work for you.

Letter from Jianping Yue at NASA

February 28, 2004

Dear Colleagues:

Six months have passed since I started my one-year NASA Administrator's Fellowship Program (NAFP) tenure at NASA Langley Research Center (LaRC) in September last year.

My research at LaRC is going well. We have made some progress in the optimization of machining parameters using state-of-the-art equipment. We are able to utilize the potential power of the machining center to achieve the maximum spindle speed, feed rate, and depth of cut, but at the same time avoid chattering. I hope that in the near future, these techniques will help NASA to make more efficient aerodynamic models for wind tunnel experiments.

There are many other professional development opportunities at NASA. The ones that I enjoy a lot are the LaRC colloquiums and the National Institute of Aerospace (NIA) seminars. LaRC and NIA frequently invite famous experts and researchers to give lectures on the progress in and development of their research fields. To name a few, Dr. Steven Vogel of Duke University gave a lecture on natural structures, such as flower stems and feather shafts, which allow twisting in the wind without getting bent out of shape. Dr. Srinidhi Varadarajan of Virginia Tech talked about building the world's third-fastest supercomputer (10.28 teraflops) by connecting 1,100 Apple G5 desktop computers. Dr. Ilhan Aksay of Princeton University explored biological self-healing nanocomposite materials. Dr. Duncan Watts of Columbia University explained the small world phenomenon that each one of us can be connected to everyone else through no more than six degrees of separation. Dr. John McMasters of the Boeing Company reviewed the biomechanics of flight and airplane design. These expert views of the scientific frontiers broadened my knowledge and stimulated some new ideas.

I have also used the opportunity to look at NASA's education programs for students and research opportunities for faculty. I will present two papers on this topic at the American Society for Engineering Education (ASEE) Mid-Atlantic Section Spring 2004 Conference in April and the 2004 ASEE Annual Conference in June. In order to "inspire the next generation of explorers," as stated in NASA's mission statements, NASA offers many education programs to inspire young Americans from grades K-12 to college undergraduate and graduate students. Many of these programs welcome the participation of community college students. The NASA Undergraduate Student Research Program (USRP) pays a stipend of \$5,000 for ten weeks in the summer and a trip for the students to do research at a NASA center. Community college students can apply for USRP as long as they are matriculating at a four-year college in the fall and majoring in engineering, mathematics, computer science, or physical/life sciences. Detailed information on USRP is on the website <www.vsgc.odu.edu>. NASA Goddard Space Flight Center (GSFC) in Greenbelt, Maryland, offers the Visiting Student Enrichment Program (VSEP), which is open to community college students. VSEP is a ten-week paid summer research opportunity at GSFC. Transportation and housing expenses are covered. Detailed program information on VSEP is available at <<http://gest.umbc.edu>>. Several NASA centers host student competitions that welcome the participation of community college students. Examples of the student competitions include the KC135 Reduced Gravity Student Flight Opportunities Program hosted by NASA Johnson Space Center in Houston, Texas, <<http://microgravityuniversity.jsc.nasa.gov>> and the Revolutionary Vehicles: Concepts and Systems University Student Competition hosted by LaRC in Hampton, Virginia <<http://avst.larc.nasa.gov>>. Imagine that you can carry out your experiments on NASA's KC135 microgravity aircraft that has been used to train astronauts! I hope that our students will be interested in NASA's education programs and have the opportunities to participate in the near future.

In another six months, I will complete my NAFP tenure at LaRC and return to ECC. I am looking forward to being back in the classroom and among my students.

Wish you all enjoy a wonderful semester!



Prof. Jianping Yue

Faculty Profile



FACULTY PROFILE

For the past several years, the Electronic Engineering Technology program has enjoyed the service of two adjunct faculty members who bring a wealth of experience to the program and to the CFT.

Professors Raymond Cweika and James Duru are profiled on this page.

PROF. JAMES DURU

Prof. Duru has been teaching Electronic Engineering Technology at Essex County College as an adjunct professor for five years. Prof. Duru earned a Bachelor's degree in Electrical Engineering from Indiana Institute of Technology and a Master's degree in Electrical Engineering from West Coast University in Los Angeles. More recently, he obtained an M. S. in Occupational Safety and Health Engineering from NJIT.

Prof. Duru has varied experience in engineering and related fields. He has worked as an engineering manager in Nigeria where he managed the production division of a dockyard. He was design engineer for various firms working on petrochemical projects as well as electrical power systems projects. He also has conducted safety inspection and audits as a research associate at NJIT.

Prof. Duru holds several certifications, including Cisco CCNA, OSHA, and New Jersey Teacher Certificate. He is a valued member of the Division faculty.

PROF. RAYMOND CWEIKA

Prof. Cweika has been teaching Electronic Engineering Technology at Essex County College as an adjunct professor for ten years. He has a well rounded educational background, having earned Master's degrees in both Electrical Engineering from NJIT and History from Rutgers. He received a Bachelor's degree in Physics from Rutgers.

Prof. Cweika has taught Physics, Mathematics and Electronics at Middlesex County College and various public high schools in New Jersey. He has also worked in Japan, Columbia, Venezuela, Hawaii and Poland. At ECC, he developed and then implemented Electronics software in his courses.

Prof. Cweika is known to his students as "Mr. C," although he has not revealed whether this is because of his last name or because of his grading policy. He has been a dedicated member of the Electronic Engineering Technology program, teaching most of the major courses over the years. The Division values his expertise and dedication.

Spring 2004—Calendar

In Person Early Advisement & Registration for Summer I, II, & Fall 2004:

April 5, 6, 7, 8 (9AM–6 PM)

Spring Holiday College Closed (No Classes):

April 9–10

Last Day of Classes:

April 26

Web Registration for Summer I, II & Fall 2004—Returning, Readmit, Transfer, and Non-Matriculating Students:

April 5–September 2

Registration for Summer I full or Deferred—Payment is Due:

April 30

Registration for Summer II full or Deferred—Payment is Due:

July 6

Registration for Fall 2004 full or Deferred—Payment is Due:

August 5



Architecture students at Branch Brook Park during a site visit for a design project last Fall



4th ANNUAL CAD CONTEST
ECC – Center for Technology

Deadline for submission:
Friday, April 2, 2004

Submit to Prof. Acquaye, and/or Prof. Assadipour