

College of Engineering, Architecture and Computer Sciences (CEACS)

Howard University

C►events.actions.comments.statistics

Fall 2001

C►events.actions.comments.statistics (C►eacs) is an occasional "state of the College" fact sheet that replaces the fall edition of *Matrix*, the alumni newsletter. The goal of C►eacs is to keep CEACS alumni informed.

college

90 Years of Excellence in Education and Research ►For 90 years, the College has maintained a tradition of excellence in engineering education and research. Baccalaureate programs were introduced in 1911, and the first graduate programs were introduced in the 1970s. Since that time, we have continually broadened our research horizons.

In addition, the College has achieved progress and results in all areas of the University's *Strategic Framework for Action I* and continues expanding its progress under *Strategic Framework for Action II*, Howard President H. Patrick Swygert's far-reaching initiatives to nurture excellence.

events

Corporate Adopt-A-Team ►Under the auspices of the Corporate Adopt-a-Team Program, CEACS students took learning tours to several sites including Lucent Technologies in Warren, NJ; Bell Labs in Murray Hill, NJ; International Paper Production Mill in Franklin, VA;

DaimlerChrysler Newark Assembly Plant, Newark, NJ, and the Ford Motor Plant.

Second Student Leadership Institute October 26-27, 2001

►Sponsored by CEACS and Black & Veatch Corporation through a multi-year grant, the first Student Leadership Institute was launched in 2000. This year's keynote speaker was Howard alumnus General Lester L. Lyles, Commander, U.S. Air Force Air Materiel Command. Black and Veatch senior managers and Howard University faculty and professionals are the Institute's instructors and administrators. The two-day program exposes students to leadership concepts that will enhance their academic performance and future success.

Prof. Victor Dzidzienyo (Arch) ►led a team of Architecture students to Berlin, Germany, where they joined students from Carnegie-Mellon U., Florida Atlantic U., Bouwakademie Maastrich (Holland), Ecole D'Architecture (France) and Dessau Institute of Architecture (home of the Bauhaus movement). Students are using the charette process to develop conceptual plans for the revitalization of the Tacheles, an historic artists' venue.

The Human Powered Helicopter►Students in the Mechanical Engineering Senior Design class of Professor M. Lucius Walker are developing a human-powered helicopter. The Boeing Company is sponsoring the project by providing materials, construction services technical support and on-site consultation by Boeing/Philadelphia engineer Corey Brown.

Clarendon, Jamaica Design

Competition ►Professors/architects Edward Dunson and Barbara Laurie and practicing architects/alumni Doug Wright and Rivington Gardner led a design team including Architecture student Tobiah Peugh to participate in the design competition for a new town in Jamaica.

Bachelor of Computer Systems

Engineering (BCSE) ►A proposal to establish a new BCSE degree in the Department of Electrical Engineering, and change the department's name to the Department of Electrical and Computer Engineering was sent to the Board of Trustees for consideration.

actions

SCS Upgrades ►The Department of Systems and Computer Science has completed a \$500,000 project in new construction, laboratory renovations and equipment upgrades. Included are new Dell computers designated for the existing laboratory, as well as a new PC LAB with 32 Dell Computers to improve undergraduate instruction, and a new graduate laboratory with facilities designed to encourage research. A new

Sun Microsystems Computer Lab (an Authorized Sun Educational Center) for offering instruction in JAVA and Solaris is located in renovated space in the Howard Mackey Building. An Advanced Networking Laboratory is in the planning stage.

GE FUND Grant►The College has received a three year, \$300,000 grant from the GE Fund to develop an on-line Introduction to Engineering course for students in grades 10-12. Teachers at Banneker, Dunbar and Ballou High Schools are participants. Key Howard personnel are Professors Joseph Cannon and Lorraine Fleming and Assistant Dean LaWanda Peace.

Recent Promotions/Appointments

Dr. Mohsen Mosleh (ME):

promoted to associate professor.

Dr. Errol C. Noel:

appointed chair of Civil Engineering.

Dr. Sonya Smith (ME):

promoted to associate professor with tenure.

Dr. John Tharakan (ChE):

promoted to professor.

Dr. John Trimble (SCS):

promoted to associate professor with tenure.

New Named Scholarships►The Percy C. Ifill Endowed Scholarship Fund for students majoring in Architecture was established with a gift of \$14,000 from Mrs. Natsu Ifill in honor of her husband. The Charles Moody Endowed Scholarship Fund for Architecture students was established by Charles Moody (BArch '82) with a \$15,000 gift.

James E. Silicott, BArch'57 ►added \$60,000 to the nearly \$200,000 he has

contributed to the James E. Silicott Endowed Fund over a 13-year period.

CEACS alumni contributing over \$5,000►Calvin Conliffe (BSME '51) and Dr. Lucius Walker (BSME '57) to the L. K. Downing Endowed Scholarship Fund. In addition, SCS professor and former interim provost Dr. Don M. Coleman contributed \$10,000 to the L.K. Downing Fund.

Micromedia GNOME Skin

“West African Gnome,” a Windows Media Player skin, created by Howard University students Marcus Johnson (CEACS) and Jennifer Young (Communications), is downloadable from the Microsoft Windowsmedia.com skins gallery (<http://windowsmedia.com/mg/skins.asp>).

The student design is based on the Kpelie face mask of the Senufo tribe of Cote d'Ivoire. Most skins in the gallery were developed by Microsoft or professional interactive media organizations. Microsoft provided the students with Windows Media player handbooks including the Windows Media Software Development Kit. **Keith Toussaint**, a Windows Media program manager and **Howard alumnus** says “This is a great example of how industry, alumni and faculty can bring a more relevant educational experience to students to prepare them for the challenges of industry.”

comments

Student organizations►remain strong and vital elements of the educational experience. Organized and active are: American Institute of Chemical Engineers (AIChE), American Society of Civil Engineers (ASCE), American Society of Mechanical Engineers (ASME),

Architecture and Planning Student Assembly, American Institute of Architecture Students (AIAS), Institute of Electronics and Electrical Engineers (IEEE), National Society of Black Engineers (NSBE), Society of Women Engineers (SWE), TAU Beta Pi, and the American Institute of Aeronautics and Astronautics (AIAA).

Tau Beta Pi District of Columbia Alpha Chapter►was awarded two \$500 scholarships for outstanding service to the Association – the CEACS chapter was one of 16 Tau Beta Pi chapters that were recognized.

Highlights: Faculty/Students/Alumni

Dr. Clay Bates (EE)► proposal on “External Photoemissive Detector for Sensing in the 8 -14 Micron Wavelength Range” was funded by the Army Research Office for \$496,842 for 36 months.

Prof. Edward Dunson (Arch)►participated in the Atelier Workshop at Ecole D'Architecture, Lille, France. Howard participants joined students from European schools to participate in design proposals for “Cultural Cities of Europe – 2004.”

Dr. Charles Glass (CE)► is exploring the impact of storm water under a \$175,000 research grant with the Washington D.C. government. A seed grant for \$45K from the Cold Regions Research Experimental Laboratory (U.S. Army Corps of Engineers) allows Glass to research the use of microbes to remove pollutants from water and wastewater and plan a larger research study on this topic.

Dr. James H. Johnson, Jr., Dean/CE Professor►was elected to the Board

of the American Society for Engineering Education Engineering Deans' Council at the June 2001 ASEE Annual Conference held in Albuquerque, NM.

Dr. Ashgar T. Minai (Arch) ► signed a contract with the State U. of New York Press to publish his book, *Mysticism. Aesthetics and Cosmic Consciousness.*

Dr. James A. Momoh (EE/Director of CESaC) ► is on sabbatical at the National Science Foundation as program director of Systems Engineering. Some of his responsibilities include administering the proposal review process, convening technology panels, organizing international collaborations and developing an interdisciplinary program in power systems.

Dr. Harry Robinson III (Arch) ► was appointed an urban design advisor for the Vietnam Veterans Memorial Fund Library in Khe San, Vietnam, and a member on the advisory committee of Project Renew in Quang Tri Province, Vietnam.

statistics

SAT Scores ► The average SAT score was 1180 for the 2001 CEACS freshman class, our largest class in over six years.

Competitive Scholarship Awards ► Over 50 CEACS freshmen students were awarded highly competitive University scholarships. Among them are three Presidential Scholarships (requires a SAT score between 1500 and 1600 and minimum 3.7 GPA) and two Laureate Scholarships (requires National Achievement Finalists status). Now in its third year, the CEACS Scouts Scholar Program welcomed two new Eagle Scouts from Richmond, VA, and Leavenworth, KS.

Corporate Visits ► Over 100 corporations, most of them Fortune 500, visited campus to interview CEACS students for permanent positions, internships and co-op positions during the academic year.

Commencement 2001 ► There were 96 B.S. and B.Arch. degrees. Nine Master of Engineering degrees, four Master of Computer Science and four Ph.D. degrees were awarded.

Research ► In academic year 2000-2001, there were 64 full-time faculty; 82 proposals were submitted to external agencies; 55 proposals were funded. The faculty produced 96 refereed publications.

C ► ceacs is an occasional fact sheet published by the Office of the Dean.

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