UDC Becomes National Center of Excellence in Information Assurance

The University of the District of Columbia has been designated as a National Center of Academic Excellence in Information Assurance Education for academic years 2013-2015. This designation facilitates and upgrades the special certificates for Information Systems Security Professionals (CNSS 4011) and Senior Systems Managers (CNSS 4012) given by the Computer Science & Information Technology Department of the School of Engineering and Applied Sciences (SEAS).

Official Center of Academic Excellence certificates were presented at the 17th Annual Colloquium for Information Systems Security Education (CISSE) on June 10, 2013 at the University of South Alabama. Debora Plunkett, NSA Information Assurance Director, presented the CAE certificates this year. Official letters of notification are being sent to UDC, the State Governor, Members of Congress, and appropriate Congressional Committees.

National Science Foundation and Air Force Office of Research Make Major Contribution to Nanotechnology Education and Research at UDC

SEAS has made rapid progress in establishing a center of expertise in Nanoscale Fabrication and Characterization. With the assistance of $600,000 federal grants, SEAS is in the process of establishing research on nanoscale electronic devices. An instrumentation grant of $200,000 by the Air Force Office of Sponsored Research will allow UDC to acquire a state-of-the-art thin film deposition system and an Atomic Force Microscope for the Microfabrication and Bio-MEMS (Micro Electro Mechanical Systems) lab on campus. Dr. Pawan Tyagi and Dr. Kate Klein, Assistant Professors of Mechanical Engineering Program are the primary investigators. Dr. Klein has secured access and funding for SEAS students to conduct research at the National Institute of Standards and Technology. These interns have worked on projects including atomistic modeling, imaging of biological systems, nanoscale patterning, and novel systems for measuring the performance of synthetic solar cells.

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Dean’s Message

It is an exciting time to be an engineer or a computer scientist. The demand for engineering talent is overtaking supply in the US, as many companies adopt the next generation of technical advances to compete effectively in the global economy. Engineering, Technology and Computer Science are transforming the world in ways never before imagined. I am sure you will agree that with the advancements made in the previous decades, the pace of change and innovation is now accelerating at an exponential rate.

SEAS graduates are prepared for high-demand careers in engineering and computer science. They achieve their potential by individualized learning through small classes, mentoring, and close collaboration with faculty and other students, leading to success in engineering board examinations. They are exposed to hands-on research, design and discovery projects tackling challenging real-world problems and developing innovative solutions. SEAS graduates are recruited regularly by companies nationwide. SEAS alumni are found in the top management and leadership of many engineering corporations and hold key positions in federal, state, and local agencies.

We are one of only four Universities in the nation’s capital providing ABET-accredited undergraduate degrees in engineering and computer science as well as graduate degrees in selected areas. SEAS curriculum focuses on three basic values: technological and scientific competence, balance between theory and practice, and consideration of the societal and holistic aspects of engineering. Here at SEAS, our mission is to prepare professionals and leaders, committed to making their communities, countries, and the world a better place.

Devdas Shetty, Ph.D., P.E.
Dean and Professor
School of Engineering and Applied Sciences

UDC Will Host ASEE Mid-Atlantic Conference, Oct 11-12, 2013

The School of Engineering and Applied Sciences will host a Regional Engineering Educators Conference this fall. The Conference entitled, 2013 American Society of Engineering Education (ASEE) Mid-Atlantic conference will take place during October 11-12, 2013. The ASEE Mid-Atlantic exposition is a conference dedicated to all disciplines of engineering education. It is committed to fostering the exchange of ideas, enhancing teaching methods, curriculum, and providing prime networking opportunities for engineering and technology education stakeholders such as deans, faculty members as well as industry and government representatives. The ASEE Mid-Atlantic Section covers the following states: Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, New York, New Jersey, Maryland, DC, Virginia, West Virginia, and Pennsylvania. We are expecting 150 students, 15 exhibitors, 80 to 100 educators and a number of industry representatives at UDC campus.

SEAS Faculty Awarded DC WRRI Grant

Dr. Nian Zhang, Assistant Professor of ECE and Dr. Pradeep Behera, Associate Professor of CME worked collaboratively to receive a grant entitled, “Analysis of Long-Term Stream flow Conditions within Potomac Watershed Based on Computational Intelligence Method”. This support is considered a seed grant ($18500) from the DC Water Resources Research Institute (DCWRRI).

SEAS @ UDC Offers Programs

- B.S. Civil Engineering
- B.S. Electrical Engineering/B.S. Computer Engineering
- B.S. Mechanical Engineering
- B.S. Computer Science
- M.S. Computer Science
- M.S. Electrical Engineering

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Cloud Computing Grant with Bowie State

A collaborative research proposal with Bowie State University on Cloud Computing has received a major grant from Department of Defense (DoD). This proposal entitled, “Designing a Robust Closed-Loop Intrusion Detection Predictive Model Using Signal Processing Techniques in Cloud Computing Environment” has been funded for 3 years. This is a collaborative grant from the Research and Education Program for HBCU/MI of DoD. The total funding is $448,823 (UDC portion is $89,000). Dr. Jeong Dong, Program Director of Computer Science in the School of Engineering and Applied Sciences, is the principal investigator.

Consortium for Advanced Manufacturing (CAM): Applied Research and Workforce Development

An award of $65,000 from Department of Energy is received through a consortium grant on advanced manufacturing of power electronics devices. The Consortium for Advanced Manufacturing (CAM), consisting of Howard University, Alabama A&M University, University of the District of Columbia, and Southern University New Orleans, in partnership with the Kansas City Manufacturing Plant (KPC) and Lawrence Livermore National Laboratory (LLNL), proposes to create a sustaining partnership that results in enlarging the pipeline for the production of skilled STEM workforce resources for current and future national needs. Particular focus is given to the education and training of individuals in advanced manufacturing and technology development for high power density devices. The pipeline focus of CAM is the enhancement of the workforce pool at the BS and graduate levels, which either contribute to the solution of challenging problems and/or innovate technologies for applications in advanced manufacturing.

Do you know?

UDC Computer Science Program Listed as the Best

The Masters Program in Computer Science (started just a few years ago) is now included in the list of 43 best Masters in Comp. Science for the year 2013-14. Please visit:


This website ranks all programs, school type, on-line and hybrid. The citation for which UDC is considered can be seen by clicking under UDC. It says, “University of the District of Columbia, in the heart of the nation’s capital, offers graduate degrees in Computer Science. The program places a strong emphasis on software design, research and entrepreneurial thinking, and encourages students to pursue their dreams no matter how big they may be. Graduates of the program have great success in securing employment, with over 85% of graduates accepting job offers within one semester after graduation.”

UDC to Participate in a Joint International Conference (ICESC-2014) with RCOEM Engineering College, Nagpur India

As a result of agreement with RCOEM College of Engineering, Nagpur, India, a joint international conference with UDC will be held in Nagpur, India in January 2014. This will be co-sponsored by leading professional societies such as ASEE/IEEE. The International Conference on Electronics, Signal Processing and Computing Technologies (ICESC-2014) aims to make the academic and scientific community indulge in high-end research and discuss the innovative and intelligent design of engineering products, processes, mechanisms and other advanced systems in the field of Engineering and Technology. The conference provides opportunities for the delegates to exchange new ideas and applications, establish research relations and to find global partners for future collaboration.
Dr. Ahmet Zeytinci, PE, F-NSPE, Professor Civil Engineering has been given the “The Engineer of the Year” award by the District of Columbia Council of Engineering and Architectural Societies (DCCEAS). DCCEAS is the Professional Organization that comprises of delegates from more than thirty Professional Societies such as American Society of Mechanical Engineers (ASME), American Society of Civil Engineers (ASCE), Institute of Electrical and Electronic Engineers (IEEE) etc. It is a well-deserved award for Dr. Zeytinci because of his years of service to the engineering profession and his role in mentoring of our current students and past graduates.

Dr. Pradeep Behera, PE, DWRE, Associate Professor of Civil Engineering served as President of District of Columbia Society of Professional Engineers (DCSPE) for the 2012-13.

During the 2013 DCSPE Annual Banquet on June 08, the Honorable Mayor of the District of Columbia, Mr. Vincent Gray, addressed the audience and emphasized the importance of STEM education as well as STEM jobs for economic prosperity of District residents.

A number of civil and mechanical engineering students have successfully passed the Fundamental of Engineering Examinations. SEAS congratulates following students: Adam Brian Blough, EIT Civil, Amy Heine, EIT Civil, Adenike Ogunbade, EIT Civil, Erika Makinde, EIT Mechanical, David Prentiss, EIT civil, Caner Celik, EIT Civil, Haile Gebretsadik, EIT Civil, Yonas Kidemendariam, EIT Civil, Kibanou Bodjona, EIT Mechanical. The current civil engineering student James Watkins passed the Fundamentals of Surveying examination. Our Civil engineering graduate Adam Brian Blough passed the both FE and PE examination in the same year.

Congratulations SEAS Grads!!!

Dr. Neelesh Kumar, Senior Scientist from Council of Scientific and Industrial Research, India is spending 5 months in the School of Engineering and Applied Sciences at UDC. Dr. Kumar has been awarded the prestigious "Raman Fellowship" by the Government of India to conduct academic interaction and research in the School of Engineering and Applied Sciences. During his stay at UDC, he will interact with faculty on the newly proposed program on Biomedical Engineering and conduct research on sensor integration in rehabilitation engineering. The particular project will involve, "Sensor Integration and Biomechanical Assessment of Human performance for Rehabilitation Devices including Wearable Mobility Supports" The plan of work includes: interaction with faculty, bio-instrumentation laboratories in SEAS, research on design aspects of sensing parameters for wearable mobility assistive devices, and biomechanics analysis of human gait for ambulatory suspension system.

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