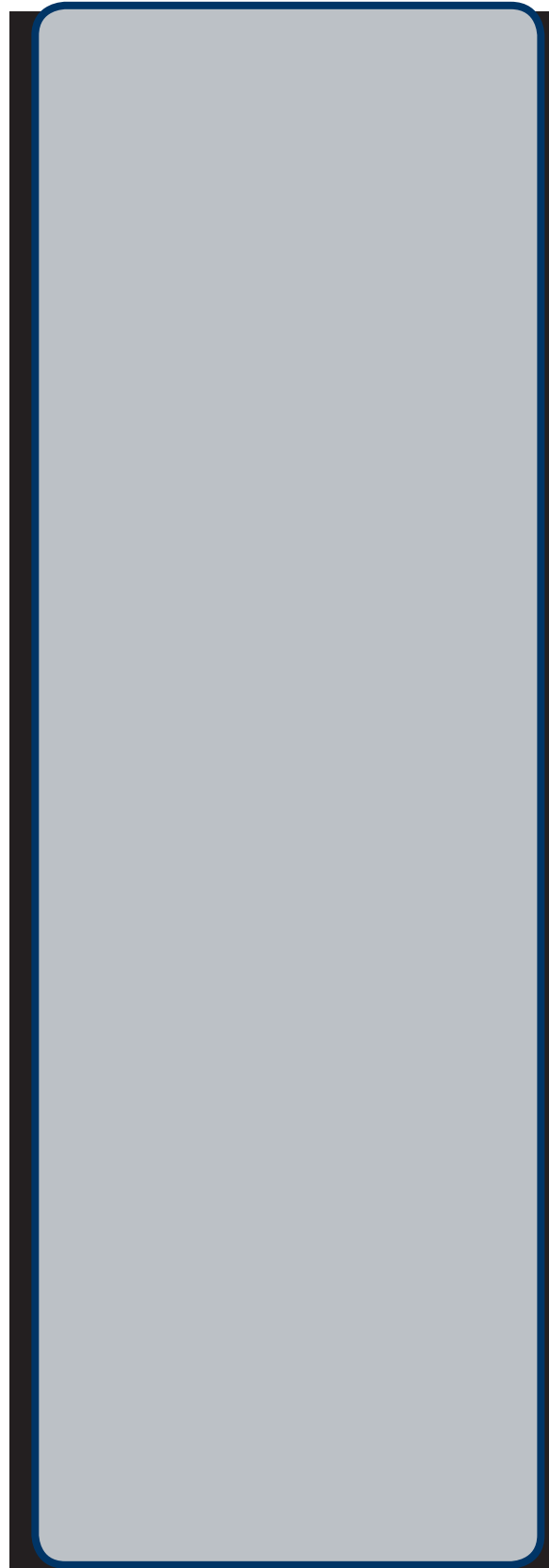


# illuminator

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# International expert addresses optimal deployment problem

by Keith Pierce

Professor, Mohamed Haouari, Ph.D., a world-renowned industrial engineer and expert in operations research from Qatar University (located on the northern outskirts of Qatar's capital city, Doha), visited ODU to address students and faculty, as well as NATO leaders. Hosted by the Engineering Management and Systems Engineering Department, Haouari's talk, "Column Generation Approaches to the Optimal Deployment Problem (ODP)," focused on disaster preparation and response from a humanitarian logistics perspective – mainly transportation – a problem also common in military deployment.

"It is an enriching experience to have well recognized researchers such as Professor Haouari addressing an important and timely topic such as deployment optimization for humanitarian logistics, especially at a time we are witnessing

more and more natural and man-made disasters," said Ghaith Rabadi, professor, Engineering Management and Systems Engineering. "Several of our guests including students, faculty and NATO personnel saw great value in the presented research. We look forward to further collaboration with Professor Haouari."

Natural disasters – such as earthquakes, tsunamis, hurricane, floods, etc. – that cause severe casualties and major infrastructure damages, require emergency rescue and medical teams, as well as various survival and food supplies, to be urgently transported to the disaster location. We assume these teams and supplies are prepositioned at different scattered locations (i.e. source nodes). Transporting rescue and medical teams and supplies from a source node to a disaster location (sink node) can be achieved by using



Dr. Haouari

different transportation assets (e.g. helicopters, large military aircraft, trucks, etc.) that have also been prepositioned at the source nodes. Haouari presented optimal node deployment strategies for transporting all required teams and supplies to a disaster location in the shortest possible time.

"It was great to engage with faculty, students and other guests at ODU on the topic of deployment optimization," Haouari said. "I truly enjoyed the discussion and many of the comments and questions were insightful. I look forward to continued collaboration with Dr. Rabadi and other faculty and students at ODU."

# CEE students experience speed networking

story and video by Keith Pierce

After a satisfying meal and a little informal mingling, civil and environmental engineering students settled in for an evening of fast-paced, speed-dating-style conversations with industry experts who happened to also be Old Dominion University alumni.

"There are structural engineers, environmental engineers, transportation and construction professionals, government workers; you name it," said Ben Stuart, senior associate dean of the Batten College of Engineering and Technology. "One of the benefits of having such career diversity is that the students get to hear and learn about a wide array of engineering career paths."

Sponsored by the ODU alumni association and the civil and environmental engineering alumni, the event was held in the alumni center.

"I loved it!" said civil and environmental engineering senior, Kimberly Bethea.

"I'm interested in construction and environmental restoration, and I was able to network with people who gave me more information as to what career path I could take, versus them just telling me what they've already done."

Recent ODU graduates like Daniela Gonzales, class of 2016, a transportation engineer for Clark Nexsen, were nearly as excited as the students to take part in the event.

"It's just really cool to hear what kind of senior design work the students are doing, what kind of work they're interested in and to hear them ask really great questions," said Gonzales. See more in this brief video:



ECE professor among seven ODU faculty selected as 2018 Entsminger Fellows

Shirshak Dhali

# Discovery of a smartphone vulnerability wins ECE student prestigious award

Rui Ning

Congratulations to, Rui Ning, a Ph.D. student in electrical and computer engineering, who received the Mark Weiser Best Paper Award. Presented at the Institute of Electrical and Electronics Engineers (IEEE) International Conference on Pervasive Computing and Communication, the extremely

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