

VE EARNS NATIONAL AWARD AT CONFERENCE

Northwestern's chapter of the Society of Women Engineers (SWE) was named Outstanding Collegiate Chapter — Silver Level at the organization's national conference in Long Beach, California. The honor recognized the chapter's ability to meet the society's strategic priorities, including outreach, education, and personal and professional growth. The Northwestern chapter, founded in 1976, includes graduate and undergraduate female and male engineers who, through various events, build relationships and networks with other engineers and scientists and develop their skills in leadership, problem solving, and interpersonal relationships.

UILDERS OF NEW MINNEAPOLIS BRIDGE HONORED AT LIPINSKI SYMPOSIUM



The team that built the Minneapolis I-35W bridge — replacing the one that collapsed into the Mississippi just two years ago — received the David F. Schuler Award for Outstanding Public Service in Transportation and Infrastructure Policy from Northwestern University in November 2009. The honor was presented as part of the third annual William O. Lipinski Symposium on Transportation Policy.

The I-35W St. Anthony Falls Bridge team included the Minnesota Department of Transportation, the City of Minneapolis, the Federal Highway Administration, Figg Engineering, and Flatiron Group, a Joint Venture.

"The bridge opened only 407 days after design work began — a near miracle," said **Joseph Schuster**, director of civil and environmental engineering and director of Northwestern's Infrastructure Technology Institute (ITI), which sponsored the symposium. "His team showed what could be accomplished in spite of the unexpected loss of a critical piece of transportation infrastructure."

The award is named for the late Dave Schuler, a McCormick professor and the founding director of ITI.

This year's Lipinski Symposium, titled "Moving the needle: Chicago and the Nation's Freight," was held at Northwestern's Evanston campus. Transportation leaders and policy makers — including U.S. Transportation Secretary Ray LaHood and former Congressman William O. Lipinski, for whom the symposium named — addressed issues and opportunities in freight transportation for the Chicago region, the nation's leading freight hub.

TWO NAMED BOEING ENGINEERING STUDENTS OF THE YEAR

Two McCormick graduate students received first- and second-place awards in the 2009 Engineering Student of the Year competition sponsored by the Boeing Company and presented by the aerospace publisher Flightglobal.



Can Bayram (second from left) as one of two first-place winners and **Pierre-Yves Delaunay** (second from right) won second place. Both are PhD candidates in electrical engineering and computer science.

Bayram, a native of Turkey, focuses his research on energy-efficient III-Nitride semiconductor

devices, including high-sensitivity ultraviolet detectors, high-performance light-emitting diodes, and compact terahertz emitters, that could advance reliability, duration, and performance in many areas of aeronautics and astronautics.

Delaunay, a native of France, uses a novel quantum material called Type-II superlattices to fabricate infrared cameras. Atomic engineering of this semiconductor opens the door to novel photon detectors that are more sensitive and faster than previous technologies. The infrared cameras based on superlattices can detect temperature differences of a few millidegrees Celsius in a fraction of a millisecond.

Bayram and Delaunay are members of the Center for Quantum Devices, led by **Manijeh Razeghi**, Walter P. Murphy Professor in electrical engineering and computer science.

Julio M. Ottino, dean of the McCormick School, hosted the awards ceremony at McCormick last December. John Tracy, Boeing's chief technology officer and senior vice president of engineering, operations, and technology (above, far right), presented the awards with Warren McEwan, Flightglobal's North American sales director (far left).

HERSAM NAMED OUTSTANDING YOUNG INVESTIGATOR



Mark Hersam, professor of materials science and engineering and chemistry, will receive the Outstanding Young Investigator Award from the Materials Research Society. The award recognizes outstanding interdisciplinary scientific work in materials research by a young scientist or engineer. Hersam is cited for "pioneering research on the physics, chemistry, and engineering of nanoelectronic materials and devices, including solution phase techniques for sorting carbon nanotubes and graphene and for organic functionalization and nanopatterning of semiconductor surfaces."