

Chemical engineering professor receives Fulbright Distinguished Chair Award

By Josh Martin

Dr. Abdul-Majeed Azad, UT professor of chemical engineering, has been selected as the recipient of the 2010-11 Fulbright Distinguished Chair Award in Alternative Energy Technology.

Beginning this fall, he will spend a nine-month sabbatical in the Department of Energy and Environment at Chalmers Institute of Technology in Göteborg, Sweden.

"I'm extremely grateful to the Fulbright Foundation for this prestigious award," Azad said. "This recognition is a testimony of the tremendous support of my family and friends and the faith that so many colleagues across the two campuses have in me."

The U.S. Department of State's Bureau of Educational and Cultural Affairs administers the Fulbright awards, which are designed to increase mutual understanding between the people of the United States and citizens of other countries.

Distinguished Chair awards are viewed as among the most prestigious appointments in the Fulbright Scholar Program. Chair holders have a prominent record of scholarly accomplishment. They also have a high degree of visibility and are frequently asked to provide guest lectures and represent the program in other ways in the host country.

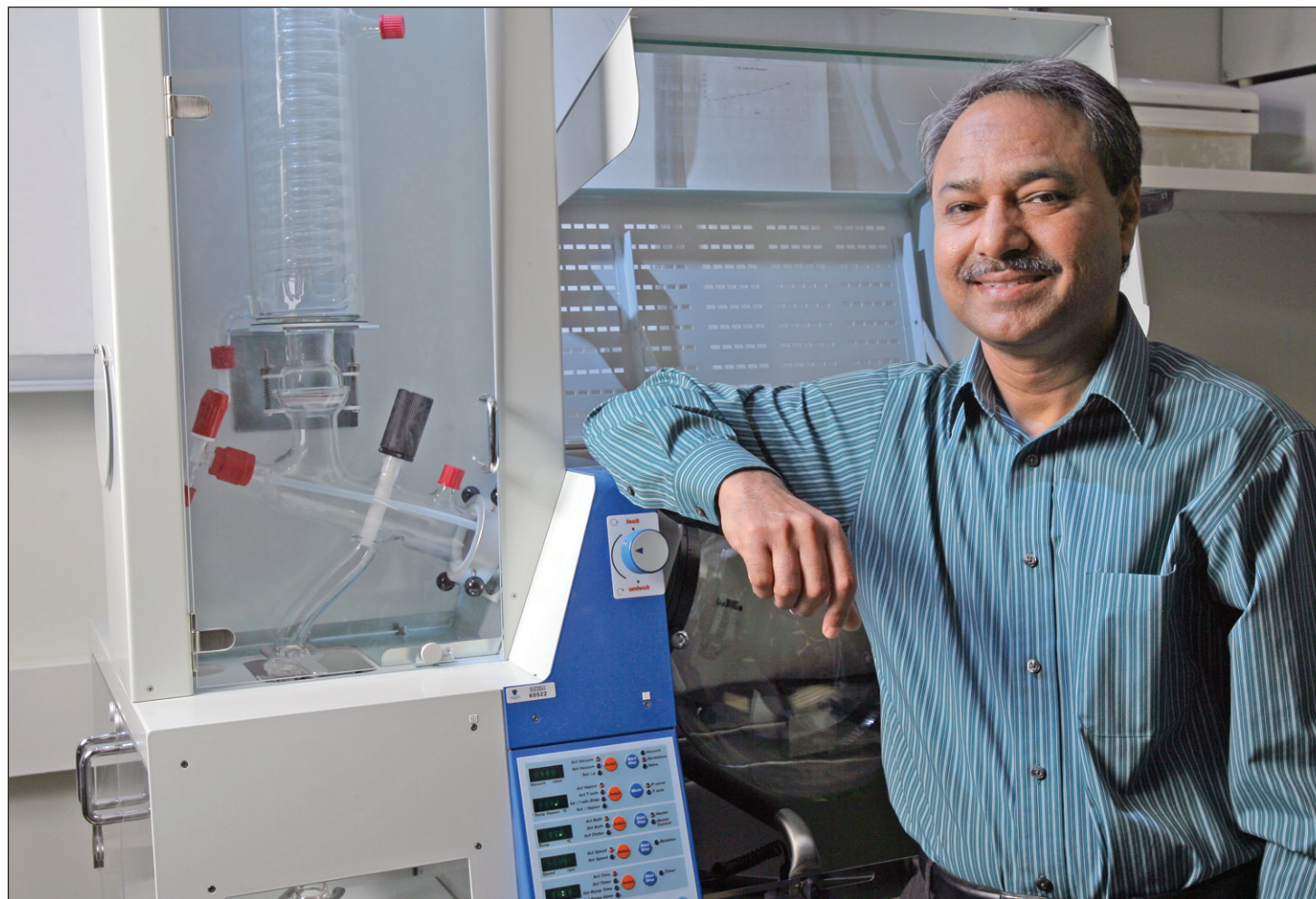


Photo by Daniel Miller

Dr. Abdul-Majeed Azad works in the North Engineering Building Materials Research Lab, where the Hiedolph LR20 rotary evaporator is used for large-scale catalyst synthesis and for coating catalysts on honeycomb monoliths.

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Student earns prestigious internship at Oak Ridge National Laboratory

By Josh Martin

About 6,000 students apply each year to the U.S. Department of Energy's Science Undergraduate Laboratory internship program. With an acceptance rate of roughly only 15 percent, The University of Toledo's Jeffrey Kodysh said he was ecstatic to beat the odds and secure a spot at the Oak Ridge National Laboratory (ORNL).

"ORNL has a special relationship with our nation's most important inventions and technologies. It was instrumental in the development of the nuclear bomb and houses the world's fastest supercomputer," said Kodysh, a senior majoring in geography and planning. "It's a great feeling to be an integral part of the exciting heritage of American innovation here."

The 11-week internship running from early June to mid-August has Kodysh working with Light Detection and Ranging (LiDAR) technology to determine photovoltaic energy potential in urban areas. This effort will allow scientists to better estimate how much sunlight reaches areas in cities where photovoltaic arrays can convert it into electricity.

"Many of our nation's urban areas have buildings and other structures well-suited to the installation of photovoltaic arrays," he said. "Rooftops of industrial buildings, barren toll station canopies and unutilized apartment complex rooftops are all examples of areas with such potential."

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Jeffrey Kodysh's internship at the Oak Ridge National Laboratory is administered by the Oak Ridge Institute of Science and Education.

Explore downtown Toledo with walking tours

By Meghan Cunningham

Discover the history of downtown Toledo this summer with free lunchtime walking tours each Thursday.

The Discover Downtown Walking Tours are scheduled from noon to 1 p.m. every Thursday through Sept. 2. Each will explore a different aspect of the city from the Civic Center Mall to the Warehouse District. Participants will receive a free copy of the award-winning *Discover Downtown Walking Tour Guidebook*.

"The downtown tour program brings together local partners and amazing dedicated volunteer tour guides to help visitors and residents see our beautiful downtown with more appreciative eyes," said Sue Wuest, assistant director of The University of Toledo Urban Affairs Center. "Everyone should attend a tour and think about joining us to become a volunteer tour guide."

The tours will take place rain or shine and are sponsored by the UT Urban Affairs Center and the Toledo-Lucas County Public Library.

The tour schedule is:

- July 15: Waite High School, the Marina District and Garfield Heights. Meet at Waite High School in the parking lot at 301 Morrison St.

- July 22: Soaring Heights — St. Joseph's Church and Historic Vistula. Meet at 628 Locust St.
- July 29: Extreme Restoration — The Casey Pomeroy House. Meet at 802 Huron St.
- Aug. 5: The City Beautiful — Civic Center Mall. Meet at the mall behind the Safety Building.
- Aug. 12: Discover Major Oliver's House. Meet at 27 Broadway St. in the Oliver House parking lot.
- Aug. 19: The Huntington Center downtown arena. Meet at the corner of Jefferson Avenue and Huron Street. Huntington Center staff will lead the tour. Attendees will be charged \$2 per person.
- Aug. 26: What's New in the Warehouse District? Meet at Washington and St. Clair streets.
- Sept. 2: World of the Feds. Meet at the James M. Ashley and Thomas W.L. Ashley United States Courthouse, 1716 Spielbusch Ave.

For more information about the Discover Downtown Walking Tours, contact the UT Urban Affairs Center at 419.530.3591 or uac@utoledo.edu.



A new walk this year will feature the Huntington Center. This tour will cost \$2 and take place Thursday, Aug. 19.

University publishing

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Dr. Sara Lundquist, associate professor and chair of English, said, "The English Department considers itself fortunate to ally with the UT Press, interested as we are in quality works of literature, history and social science seeing publication and reaching audiences."

And the College of Graduate Studies has dedicated a graduate assistant to the University Press. Tricia Salata, an incoming student pursuing a master's degree in English, will start working in August. She is attending the Summer Publishing Institute at New York University.

"I selected Tricia primarily because of her serious interest in a career in publishing," said Dr. Christina Fitzgerald, associate professor of English. "Although I think Tricia is interested in literary and arts/culture magazine publishing, the experience at UT with an academic press will give her more experience and knowledge to draw on as she pursues her career."

"Our students come to our MA in English literature program for a variety of reasons, and we frequently have students

interested in publishing careers," Fitzgerald added. "This new graduate assistantship will be an invaluable opportunity for those students."

"Hopefully, this will be a continuing position," Lipman said. "We'll nurture that position, which will bring the press closer to the curricular and educational side of the University. It'll be a chance to learn about and work with the production side of publishing."

Last month, The University of Toledo Press published its first book, *The Relevant University: Making Community and Economic Engagement Matter*, which was written by President Lloyd Jacobs and Eva Klein.

Future works will include *Arab Americans in Toledo* by Dr. Samir Abu-Absi, professor emeritus of English, and *From Institutions to Independence: A History of People With Disabilities in Northwest Ohio* by Barbara Floyd, director of the Ward M. Canaday Center for Special Collections, and Kim Brownlee, manuscripts librarian.

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The program comprises about 40 distinguished lecturing, distinguished research and distinguished lecturing/research awards spanning a wide range of academic disciplines.

Officials with the Fulbright Scholar Program said Azad stood out because of his international recognition in the field of alternative energy research. He has authored more than 90 peer-reviewed publications, has participated in a number of conferences, possesses several patents, and achieved significant grant funding.

In addition to this outstanding research, Azad consistently has been evaluated well by his students.

His work as a Fulbright Scholar will involve improving the Chemical-Looping with Oxygen Uncoupling (CLOU) process for the capture and storage of carbon dioxide that is being employed at Chalmers.

Azad's proposed research at Chalmers aligns well with his own work at UT, where he has independently developed technologies that utilize rather than sequester carbon dioxide. The sequestration method involves

pumping the greenhouse gas underground into depleted coal and natural gas mines after it is "scrubbed" from the air during the burning of solid fuels such as coal.

Utilization, on the other hand, generates synthetic gas, also known as "syngas," by combining carbon dioxide and water vapor that could then either be used as a fuel in solid oxide fuel cells or converted catalytically into liquid fuels via the Fischer-Tropsch process.

Azad also is working with NASA on this technology as well as with the Battelle Memorial Institute for its possible commercialization.

"Dr. Azad is a great asset to this university and is a fine representative of our commitment to be a transformative leader in renewable energy," Dr. Nagi Naganathan, dean of the UT College of Engineering, said.

"The Fulbright Award is an affirmation of his accomplishments in this area as well as our commitment," Naganathan added. "It is great to see Dr. Azad have the opportunity to share his valued talents in an internationally collaborative fashion."