

***Darrell J. Nelson Summer Undergraduate Internship
in Energy Sciences Research***

For the first time, the Nebraska Center for Energy Sciences Research (NCESR) offered a summer internship opportunity in energy sciences research to undergraduate students in the amount of up to \$5,000 for the summer of 2014.

The undergraduate summer internship is named after Mr. Darrell J. Nelson, who served 41 years on the Custer County Public Power District and Nebraska Public Power District (NPPD) Boards from 1970-2011, and was an advocate of lifelong learning. In 2005, Mr. Nelson proposed a partnership between NPPD and the University of Nebraska–Lincoln for the purpose of engaging in energy sciences research. The following year, the NCESR was created with NPPD’s support.



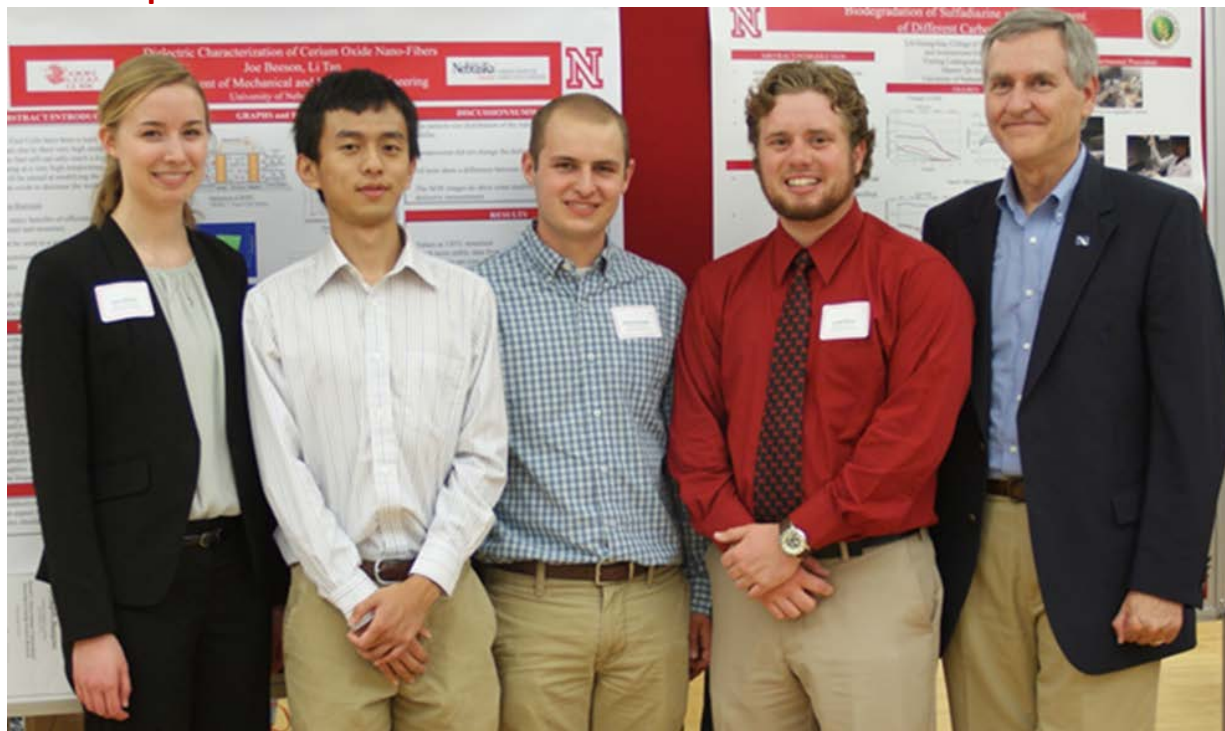
Darrell J. Nelson

To be eligible to apply, the undergraduate student must pursue any major at the University of Nebraska–Lincoln (UNL); be in academic good standing; be between the sophomore/junior year or the junior/senior year, which is determined by the total semester hours successfully completed; and have a cumulative Grade Point Average (GPA) of 3.0 or above. As part of the application process, the undergraduate student was required to contact and secure a firm commitment from a UNL faculty member to sponsor the application and supervise the energy sciences research work the student proposed to conduct if selected.

The first four recipients of the 2014 summer undergraduate internship are summer internship are Joseph Beeson, majoring in mechanical engineering; Mitchell Schmidt, majoring in physics; Boqiang Tu, majoring in biochemistry and Carina Winter, majoring in chemical engineering.

Each recipient prepared a poster to describe their research. The posters were presented during the Nebraska Summer Research Symposium on August 6, 2014 at the University of Nebraska City Campus Union. More than 150 students participated in the event, which is sponsored by the Office of Graduate Studies.

2014 Recipients

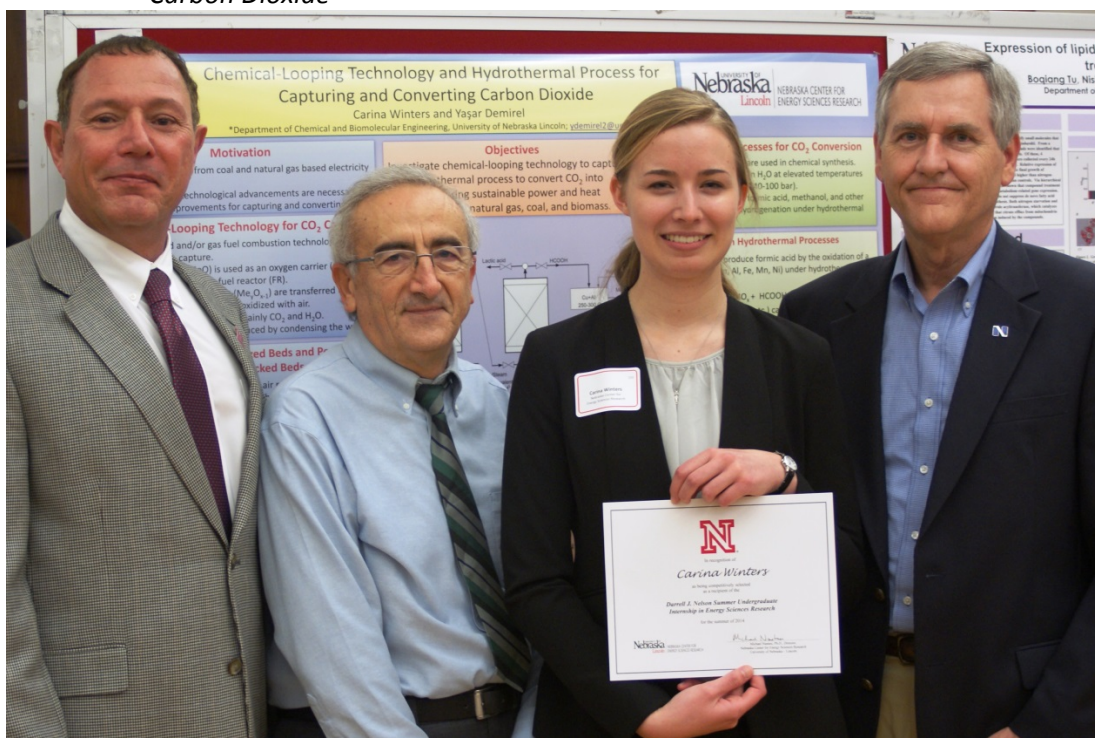


The 2014 Summer Undergraduate Internship recipients (L. to R.) Carina Winters, Boqiang Tu, Mitchell Schmidt and Joseph Beeson join Mr. Alan Dostal, Nebraska Public Power District (far right) during the poster session at the 2014 Nebraska Summer Research Symposium held on August 6, 2014 at the University of Nebraska–Lincoln.

Carina Winters

Faculty Sponsor: Professor Yasar Demirel, Department of Chemical and Biomolecular Engineering

Research Topic: *Chemical-Looping Technology and Hydrothermal Process for Capturing and Converting Carbon Dioxide*

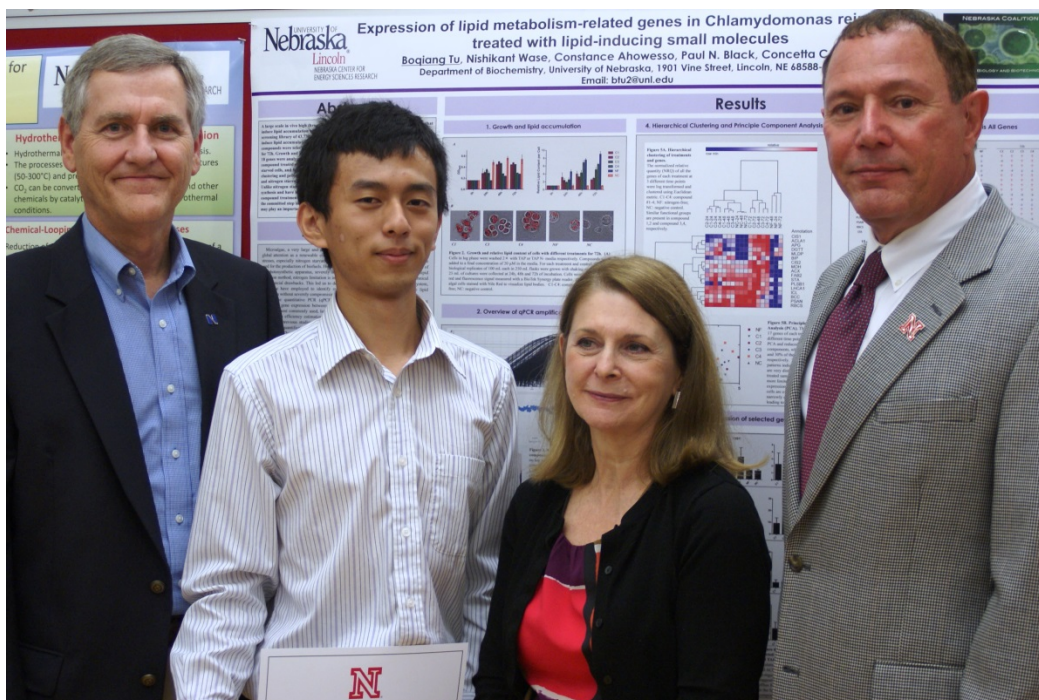


(L. to R.) NCSER Director Mike Nastasi, Professor Yasar Demirel, Carina Winters and Alan Dostal.

Boqiang Tu

Faculty Sponsor: Professor Concetta DiRusso, Department of Biochemistry

Research Topic: *Expression of lipid metabolism-related genes in Chlamydomonas reinhardtii treated with lipid-inducing small molecules*

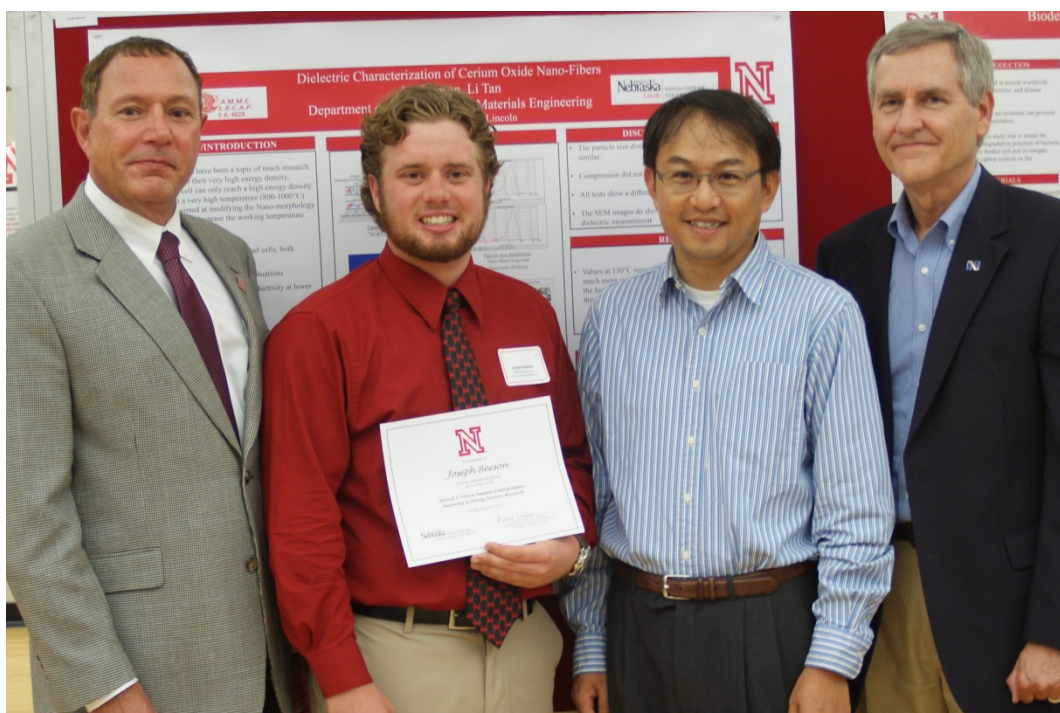


(L. to R.) Alan Dostal, Boqiang Tu, Professor Concetta DiRusso and Mike Nastasi.

Joseph Beeson

Faculty Sponsor: Professor Li Tan, Department of Mechanical and Materials Engineering

Research Topic: *Dielectric Characterization of Cerium Oxide Nano-Fibers*

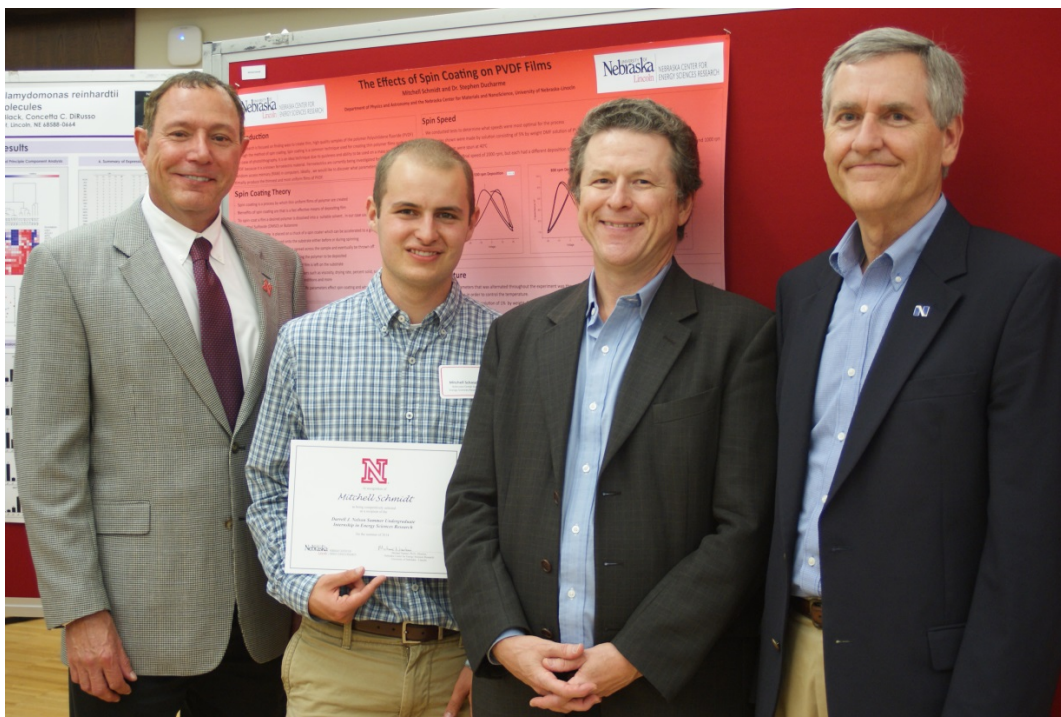


(L. to R.) Mike Nastasi, Joseph Beeson, Professor Li Tan and Alan Dostal.

Mitchell Schmit

Faculty Sponsor: Professor Concetta DiRusso, Department of Biochemistry

Research Topic: *The Effects of Spin Coating on PVDF Films*



(L. to R.) Mike Nastasi, Mitchell Schmit, Professor Stephan Ducharme and Alan Dostal.



Nebraska Center for Energy Sciences Research
230 Whittier Research Center
2200 Vine Street
Lincoln, NE 68583-0857
www.ncesr.unl.edu

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