

EARTH AND ATMOSPHERIC SCIENCES

Professor summers in Antarctica

Associate Professor Kate Pound spent October – December in the coldest, windiest, driest place on Earth – the Antarctic. Pound is one of six educators nationwide who worked with ANDRILL scientists during the summer drilling season. (See p. 25.)

Pound's experience allowed her to be the Science Museum of Minnesota's "Science Buzz" correspondent and "Scientist on the Spot" and to help develop preparatory and lab/classroom activities for pre- and in-service K-12 teachers.

'And the winner is ...'

The Academy of Television Arts and Sciences 28th College Television Awards presented the 2007 Newscast Emmy to St. Cloud State University's television station, UTVS. Their winning entry was a newscast for December 2006.

Anchoring the weather for the winning newscast was Stephanie Anderson, meteorology major and UTVS chief meteorologist. Anderson directs five other student meteorologists for UTVS. She traveled to Los Angeles in March to receive the award with eight other SCSU students and Gregory Martin, assistant professor in the Department of Mass Communications.

Following a red-carpet reception at the historic Culver Studios, the college television finalists were treated to an award ceremony complete with dinner, master of ceremonies Tom Bergeron — himself a daytime Emmy winner — and celebrity appearances from such television hits as *Desperate Housewives*, *CSI*, *Ugly Betty* and *24*.

It was the first time in the event's history that the presentations were made live and on stage. Read more at www.emmys.tv/foundation/collegetvawards-28wrap.php.

Meteorology major addresses graduates

Amber Metzker delivered the commencement address at the 2 p.m. ceremony May 12, 2007, for the College of Fine Arts and Humanities, the College of Science and Engineering and the College of Social Sciences. Metzker graduated cum laude with a bachelor of science degree in meteorology.

A conference is born

The inaugural Northern Plains Winter Storm Conference was held Oct. 25 – 26, 2006, at the Americana Inn and Conference Center in St. Cloud. The second annual

conference was held Oct. 24 – 25, 2007, at St. Cloud's Kelly Inn. More than a dozen meteorology professionals spoke at each event.

A project of EAS along with SCSU's student chapter of the National Weather Association and the Twin Cities chapter of the American Meteorological Society, the conference is described by one participant as especially valuable since "the whole field is in a state of flux while most weather agencies upgrade to more 'graphical-based' products compared to the 'text-based' products of the past few decades."

New funds for new forecasters

The newly established Miriam Spitzer Memorial Scholarship in Synoptic Meteorology annually awards at least \$500 to meteorology majors who show outstanding achievement in forecasting and weather analysis. The first recipients of the scholarship were Stephanie Anderson and Megan Schwitzer.

Robert Weisman, EAS meteorology professor since 1988, said he established the endowed scholarship in honor of his grandmother, who died in September 2006.

Oil, gas field software acquired

The geology program has acquired PETRA, state-of-the-art software that is a standard of the oil and gas industry. The program allows geoscientists to speed the process of decision making in the analysis of oil and gas field data.

Focused on improving the productivity of small asset teams composed of geologists, geophysicists, petrophysicists and reservoir engineers, it is also an exceptional tool for individuals who must perform a variety of functions with limited support from others, since it can be uploaded to a laptop and carried to remote locations around the world.

Results can be quickly visualized using the interactive mapping, cross-sections, log plots, cross-plots and custom spreadsheets.

While the normal acquisition cost for PETRA and a site license exceeds \$300,000, the software and site license were acquired cost free from the GeoPlus Corporation.

2007 Student Research Colloquium participation:

Two students, 2 presentations, 2 sponsors

Juan Fedele, Associate Professor. Ph.D. 2003, University of Illinois, Urbana-Champaign
hydraulics, hydrology, sediment transport

Grants

\$10,625 for Culture, Currents, Choma, Clasts, Cells and Climate: Our Changing Environment – A Speaker Series Presenting a Multi-disciplinary Approach to Environmental Change, with Kate Pound. From MSUAASF, Feb. 2007.

Tony Hansen, Professor. Ph.D. 1981, Iowa State University.
climate dynamics, dynamic meteorology

Gregory Nastrom, Professor. Ph.D. 1980, University of Minnesota-Twin Cities.
atmosphere, meteorology, radar, weather, winds

Certification/Licensure

Certified Consulting Meteorologist

Alfred Pekarek, Associate Professor. Ph.D. 1974, University of Wyoming.
basin and range tectonics, geochemistry, glacial geology, petroleum, Precambrian geology

Kate Pound, Associate Professor. Ph.D. 1994, University of Otago, New Zealand.
geomorphology, glacial geology, geoscience education, mineralogy, provenance studies, tectonics and structural geology

Certification/Licensure

Registered Professional Geologist in Minnesota

Selected Presentations

Pound, Kate, C. Jennings and P. Morin. From Map Texture Observations to Geologic Interpretations: The Quaternary Glacio-Fluvial History of the Upper Midwest Using Anaglyph Stereo Maps. Annual Fall Meeting of the American Geophysical Union, Dec. 2006, San Francisco.

Pound, Kate. Stream Profile, Terrace, and Depth-to-Bedrock Data for the Upper Mississippi River Region, Elk River-Brainerd: Preliminary Results. Annual Meeting of the North-Central Section of the Geological Society of America, April 2007, Lawrence, Kansas.

Grants

\$56,000 (approximately) Participation in NSF-sponsored ANDRILL (Antarctic Geological Drilling) ARISE (ANDRILL Research Immersion for Science Educators) Program, Sept. – Dec. 2007.

\$5,000 for How, Why, and When Did the Mississippi River Terraces Form? From University Researchers Funds Grant, Nov. 2006.

\$10,625 for Culture, Currents, Choma, Clasts, Cells and Climate: Our Changing Environment – A Speaker Series Presenting a Multi-disciplinary Approach to Environmental Change, with Juan Fedele. From MSUAASF, Feb. 2007.

Robert Weisman, Professor. Ph.D. 1988, SUNY-Albany.
climate, forecasting, meteorology, severe weather for deaf/hard-of-hearing, weather

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