

Jesse Eugene Bell

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Education

- 2004- Ph.D., Ecology and Evolutionary Biology
 The University of Oklahoma, Norman, OK
 Dissertation: Changes in temperature and precipitation on the
 rainfall use efficiency and soil water dynamics in temperate
 prairie ecosystems.
- 1999-2003 B.S., Biology, 2003
 Emporia State University, Emporia, KS
 Independent Project: The germination rates and seed bank size
 of cleistogamous and chasmogamous seeds of the invasive
 weed *Lespedeza cuneata*.

Experience

- NSF Engineering in Practice Fellow. Department of Civil and
Environmental Engineering, The University of Oklahoma, Norman, OK
73019. 2007-2008.
- Graduate Teaching Assistant. Department of Botany and Microbiology, The
University of Oklahoma, Norman, OK 73019. 2004-2007.
- Graduate Research Assistant. Department of Botany and Microbiology, The
University of Oklahoma, Norman, OK 73019. Summers of 2004, 2005 &
2007.
- Undergraduate Naturalist. Department of Biology, Emporia State University,
Emporia, KS. 2002-2003.

Rangeland Management Technician/SCEP. USDA Forest Service, Bridgeport, CA. Summer 2002.

Rangeland Management Technician/STEP. USDA Forest Service, Elko, NV. Summer 2001.

Funding

Engineering in Practice Fellow. National Science Foundation, GK-12 Program. 1 August 2007 – 1 August 2008.

KREST Institute. Part of the K20 Center for Educational and Community Renewal. National Science Foundation and Howard Hughes Medical Institute. June 18-29, 2007

George L. and Cleo Cross Graduate Student Endowed Scholarship. 2007.

The University of Oklahoma's Research and Creativity Grant. Changes in temperature and precipitation on the rainfall use efficiency and water use efficiency in temperate prairie ecosystems. The University of Oklahoma. 2006.

East Asia and Pacific Summer Institutes for U.S. Graduate Students (EAPSI). Full funding to travel and work in the Chinese Academy of Sciences' Institute of Botany. National Science Foundation. 2006.

TERACC/EU funding for all travel and stay costs to Denmark for a workshop. One of five graduate students from the United States selected to go to the TERACC/EU meeting in Denmark on "Effects of Precipitation Change on Terrestrial Ecosystems a Workshop and Networking Activity (EPRECOT)". 2006.

Publications

Bell, J. E., E. Weng, & Y. Luo. 2007. Potential changes in the water cycle from climate change: a modeling analysis of a tallgrass prairie. *In preparation*

Bell, J.E., R. Sherry, & Y. Luo. 2007. Effects of experimental warming and increased precipitation on soil moisture dynamics in a North American grassland. *In preparation*

Knapp, A., C. Beier, D. Briske, A. T. Classen, M. Reichstein, S.D. Smith, J.E. Bell, R. Sherry, J.L. Heisler, B. Smith, M. Smith, Y. Luo, J. Yarie, J. Weltzin, & S.W. Leavitt. 2007. Consequences of more extreme precipitation regimes for terrestrial ecosystems. *Bioscience, In press*

Presentations

Bell, J.E., Y. Luo, & E. Weng. (Oral Presentation). Impacts of climate change on prairie water dynamics: a modeling analysis. ESA, San Jose, CA, USA. 7 August 2007.

Invited Speaker to the Climate Change Forum: Crossing scientific borders: an interdisciplinary and international approach to science. China Meteorological Administration, Laboratory for Climate Studies, 7 August 2006.

Bell, J.E. (Oral Presentation). Long term frequency and intensity changes in precipitation along an Oklahoma transect. EPRECOT, Denmark. 24 May 2006.

Bell, J.E., W. Xu, & Y. Luo. (Poster Presentation). Precipitation and Temperature Change of an Environmental Transect over a Hundred Year Period. EPRECOT, Denmark. 23 May 2006.

Professional Memberships

Sigma Xi
Southwestern Association of Naturalist
The University of Oklahoma's Botanical Society
Ecological Society of America

Awards, Honors, and Honor Societies

George L. and Cleo Cross Graduate Student Endowed Scholarship. 2007.

Certificate of Completion. China Science and Technology Exchange Center, Ministry of Science and Technology of the People's Republic of China and U.S. National Science Foundation, Beijing Office. Recognition of completion in the EAPSI program. 2006.

Honorary inductee into Sigma Xi. Emporia State University. 2003.

Undergraduate Excellence in Academics and Research. Department of Biology, Emporia State University. 2003.

Honorary inductee into Southwestern Associate of Naturalist. 2002.

University/Community Service

Graduate Student Senator. 2005-2007.

Vice Chair of Ways and Means Committee. 2006-2007.

Member of External Affairs. 2005-2006.

Graduate Student Representative for the Department of Botany & Microbiology. 2005-2007.

Committee for Department Webpage Improvement. 2006.

Horizons Unlimited: Taught gifted school children about science. Summer 2005.

Habitat for Humanity: Helped build a house. Oklahoma City, OK. 2005.

Knox County Fair: Volunteered my time by working on site improvement. Bloomfield, NE. 2005.

Expanding Your Horizons: Taught middle school children about biology. 2000-2003.

Proficiencies

Fortran

Matlab

Microsoft Word

SAS

Microsoft Excel

SPSS

Sigma Plot