

CRAIG B. CLEMENTS

Associate Professor

Fire Weather Research Laboratory

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www.fireweather.org

EDUCATION

Ph. D., Geophysics, University of Houston 2007

M.S., Meteorology, University of Utah 2001

B.S., Geography, University of Nevada, Reno 1995

PROFESSIONAL EXPERIENCE

8/2012 – present, Associate Professor of Meteorology and Director of the Fire Weather Research Laboratory, Department of Meteorology and Climate Science, San José State University, San José, CA

8/2007 – 8/2012, Assistant Professor, Department of Meteorology and Climate Science, San José State University, San José, CA

7/2008 – 8/2008, Visiting Scientist, Joseph W. Jones Ecological Research Center, Ichauway, GA.

12/2006 – 7/2007, Research Scientist, Department of Earth and Atmospheric Science, University of Houston, TX

-Managed and operated University of Houston Boundary Layer Research Facility

SELECTED GRANTS AND CONTRACTS AWARDED (Total Funding=\$2,994,413)

1. Boundary layer height determination from Doppler lidar, California Energy Commission (2013-2015: \$47,000)

2. Analysis of Turbulence statistics from field experiment data. USDA Forest Service, PI, (2013-2014: \$30,000)

9. Wind Power Generation on High-Rise Buildings in Urban Centers, California Energy Commission, Co-PI (2010-2011; \$50,000)

10. SODAR Operation and Wind Data Analysis for Diablo Canyon Power Plant, Pacific Gas and Electric Company, PI, (2009-2010; \$16,422)

11. Analysis of RxCADRE micrometeorological data. Joseph Jones Ecological Research Center, PI, (2009; \$4000)

AWARDS AND HONORS

• 2012 NSF CAREER Award

• 2010 San José State University Research Foundation Early Career Investigator Award.

• 2006 Houston Advanced Research Center Graduate Scholar.

• 2005 Best Young Scientist Award, AMS Symposium on Fire and Forest Meteorology.

• 2005 Estwing Award for Outstanding Field Work, Department of Geosciences, University of Houston.

• 2004 Best Student Presentation Award, Department of Geosciences, University of Houston.

• 2001 Excellence in Graduate Research Award, Department of Meteorology, University of Utah.

- 2000 Best Student Oral Presentation Award, AMS Ninth Conference on Mountain Meteorology.
- 1999 U.S. Department of Energy, Graduate Research Environmental Fellowship (1999-2003).
- 1998 3rd Place Student Oral Paper, Climate Specialty Group, AAG Annual Meeting.
- 1998 Eastern Sierra Air & Waste Management Association Scholarship.
- 1997 2nd Place Student Oral Paper Award, California Geographic Society Meeting.
- 1994 University of Nevada Undergraduate Research Scholarship.
- 1990 3rd Place Intercollegiate Informative Speaking Award, Jack Samosky Invitational.

SELECTED FIELD RESEARCH EXPERIENCE

Co-PI, RxCADRE (prescribed fire, combustion, atmospheric dynamics research experiments), 2008-2013

- Discipline Lead for all fire weather, micrometeorology, and fire-atmosphere interactions research.

Site Scientist/Manager, University of Houston Boundary-Layer Meteorology Research Facility, La Marque, TX

- Constructed, maintained and operated 43-m flux tower and medium-range 3D Doppler Sodar.
- Responsible for bidding, contracting, installation and purchasing of facilities equipment.
- Data acquisition system design and data quality assurance, instrument repair and maintenance.

Lead-Field Scientist, University of Houston, Terrain-induced Rotor Experiment, Bishop, California, March-May 2006.

- Installed and maintained Doppler Sodar and micrometeorological flux tower.

Principle Investigator, The FireFlux Experiment

- Independently designed and implemented experimental research on turbulence structures during intense grass fires.

Co-Principle Investigator, Ozone Transport and Wind Structure Study in Yosemite National Park, California (2003)

- Installed and operated UH Doppler sodar system, multiple meteorological towers, and operated Ozone monitors.
- Conducted high-resolution numerical simulations using MM5 modeling system.

Lead-Field Scientist, University of Houston Group, Joint Urban 2003 Dispersion Experiment Oklahoma City, OK

- Installed and maintained UH 3D Doppler Sodar, flux towers

Field Scientist, Pacific Northwest National Laboratory, Richland, Washington: Columbia Basin Vineyard Experiments,

- conducted tethered sonde and tower measurements over vineyards during summer.

Field Scientist, Intermountain Precipitation Experiment (IPEX) Utah.

Conducted remote soundings using the National Severe Storms Laboratory mobile unit, NSSL4, (February 2000).

PROFESSIONAL MEMBERSHIPS

American Meteorological Society

American Geophysical Union

International Association of Wildland Fire