

5/28/2020

John Paul Monteverdi  
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4425 View Street  
Oakland, CA 94611  
Tax ID: 573-66-4942

CURRENT: Emeritus Professor of Meteorology  
Department of Earth & Climate Sciences<sup>1</sup>  
San Francisco State University

HONORARY TITLE: Fellow, California Academy of Sciences (Awarded 1995)

RECENT POSITIONS: Professor of Meteorology, Department of Earth & Climate  
Sciences, 1979-2020, San Francisco State University

Board of Directors, Electronic Journal of Severe Storms  
Meteorology

Chair, Department of Geosciences<sup>2</sup>, 1990-1998  
San Francisco State University

Co-editor, *Weather and Forecasting*, (1992-1998)  
Member, AMS Com Severe Local Storms (1992-1997)

UNIVERSITY ADDRESS: Department of Earth & Climate Sciences  
San Francisco State University  
1600 Holloway Ave., San Francisco CA 94132

UNIVERSITY PHONE: (415) 338-7728  
HOME PHONE: (510) 653-4320; CELL (510)928-4320

UNIVERSITY EMAIL: montever@sfsu.edu

BUSINESS: Mayacamas Weather Consultants  
BUSINESS ADDRESS: 4425 View Street  
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BUSINESS PHONE: (510) 653-4320  
BUSINESS EMAIL: [montever@comcast.net](mailto:montever@comcast.net); [mayacamas@mac.com](mailto:mayacamas@mac.com)  
BUSINESS WEBSITE: <http://www.mayacamaswx.com/>

## ACADEMIC BACKGROUND

<sup>1</sup> Formerly, Department of Geosciences

<sup>2</sup> Currently, Department of Earth & Climate Sciences

1. Degrees

A.B., Geology, June 1968, University of California, Berkeley. Emphasis: Physical Science.

M.A., Geography, June 1970, University of California, Berkeley. Emphasis: Synoptic Climatology.

Ph.D., Geography. December 1977, University of California, Berkeley. Emphases: Synoptic Meteorology and Synoptic Climatology. (54 Quarter Units of Residence completed at Department of Meteorology, San Jose State University).

2. Dissertation Topic

A meteorological analysis of the variability of precipitation in the Great Plains, USA

**CERTIFICATIONS**

1. Refereed Certifications (Year of Certification and Certifying Body Indicated)

1988. CERTIFIED CONSULTING METEOROLOGIST, AMS.

1972. CANDIDATE OF PHILOSOPHY DEGREE CERTIFICATE, UC Berkeley.

1972. PROFESSIONAL MEMBER, AMS.

1971. PROFESSIONAL METEOROLOGIST, U.S. Civil Service.

2. Other Certifications (Year of Certification and Certifying Body Indicated)

1970. COMMUNITY COLLEGE CREDENTIAL, State of California.

**AWARDS**

(Year of Award and Awarding Body Indicated)

February 2009. PERFORMANCE SALARY INCREASE AWARD. San Francisco State University.

September 1999. PERFORMANCE SALARY STEP INCREASE AWARD. San Francisco State University.

January 1997. PERFORMANCE SALARY STEP INCREASE AWARD. San Francisco State University.

Spring 1989. MERITORIOUS PERFORMANCE AND PROFESSIONAL PROMISE AWARD. San Francisco State University.

Spring 1986. MERITORIOUS PERFORMANCE AND PROFESSIONAL PROMISE AWARD. San Francisco State University.

1985. COOPERATIVE OBSERVER COMMENDATION. National Weather Service.

## PUBLICATIONS

1a. Refereed Publications (Published Only After Anonymous Review by Other Experts)

**Monteverdi, J.P.**, Roger Edwards, and Gregory J. Stumpf, 2014: An Analysis of the 7 July 2004 Rockwell Pass, California, Tornado: Highest-Elevation Tornado Documented in the United States. *Mon. Wea. Rev.*, 142, 3925–3943.

**Monteverdi, J. P.**, and R. Edwards, 2010: The redevelopment of a warm core structure in Erin: A case of inland tropical storm formation. *Electronic J. Severe Storms Meteor.*, 5 (6), 1–18.

Umscheid, M.E., **J. P. Monteverdi**, and J.M. Davies, 2006: Photographs and analysis of an unusually large and long-lived firewhirl. *Electronic J. Severe Storms Meteor.*, 1, no. 2, 1-13.

Shafer, J. C., W. J. Steenburgh, J. A. W. Cox, and **J. P. Monteverdi**, 2006: Terrain influences on synoptic storm structure and mesoscale precipitation distribution during IPEX IOP3. *Mon. Wea. Rev.* In press., March 2006.

**Monteverdi, J. P.**, C. Doswell III, and G.S. Lipari, 2003: Shear parameter thresholds for forecasting tornadic thunderstorms in northern and central California. *Wea. Forecasting*, 18, 357-370.

Hanstrum, B. N., Mills, G.A., Watson, A., **Monteverdi, J.P.**, and Doswell, C.A.III, 2002: The cool season tornadoes of California and Australia. *Wea. Forecasting*, 17, 705-722.

**Monteverdi, J.P.**, W. Blier, G. Stumpf, W. Pi and K. Anderson, 2001: First WSR-88D documentation of an anticyclonic supercell with anticyclonic tornadoes: the Sunnyvale/Los Altos, California tornadoes of 4 May 1998. *Mon. Wea. Rev.*, 129, 2805-2814.

**Monteverdi, J.P.** and J. Null, 1998: A balanced view of the impact of the 1997/98 El Niño on California precipitation. *Weather*, 53, No. 9, 310-313.

**Monteverdi, J.P.** and J. Null, 1998: The Impact of the 1997-98 El Niño on Precipitation

in the West. *Natural Hazards Observer*. Volume XXII, Number 3--January 1998.

**Monteverdi, J.P.** and S. Johnson, 1996: A supercell thunderstorm with hook echo in the San Joaquin Valley, California. *Wea. Forecasting*, **11**, 246-261.

Berg, N., M. Heggli, and **J. Monteverdi**, 1995: The influence of meteorology on rime and snow chemistry at a mountaintop site in northern California. *Water Air Soil Poll.*, **81**, 25-36.

**Monteverdi, J.P.** and J. Quadros, 1994: Convective and rotational parameters associated with three tornado episodes in northern and central California. *WEA. FORECASTING.*, **9**, 165-178.

Braun, S.A. and **J.P. Monteverdi**, 1991: An investigation of a mesocyclone-induced tornado occurrence in northern California. *WEA. FORECASTING*, **6**, 13-31.

**Monteverdi, J.P.**, Braun, S.A., and T.C. Trimble, 1988: Funnel clouds in the San Joaquin Valley, California. *MON. WEA. REV.* **116**, 782-789.

Byrne, R., Granger, O., and **J.P. Monteverdi**, 1983: Recent rainfall trends on the margins of the subtropical deserts: a comparison of selected Northern Hemisphere regions. *QUART.RES*, **3**, 1-12.

**Monteverdi, J.P.**, 1976: The single air mass disturbance and precipitation characteristics at San Francisco, *MON. WEA. REV.* **104**, 1289-1296.

1b. Non-Refereed Publications (Published Without Anonymous Review by Other Experts)

**Monteverdi, J.P.**, and B.L. Wood, 1973: The December 1972 freeze and its effects on the eucalyptus forest of the Oakland-Berkeley Hills. *WEATHERWISE*. **26**, 160-167.

**Monteverdi, J.P.**, 1973: The Santa Ana weather type and extreme fire hazard in the Oakland-Berkeley Hills. *WEATHERWISE*. **26**, 118-121.

2. Refereed Technical Memoranda, Reviews and Invited Conference Publications

**Monteverdi, J.P.**, 2005: Review of Tornadoes (by Michael Alalby). Appears in Readings, *Bull. Amer. Meteor. Soc.* July 2005, **7**, pp. 998-1000.

**Monteverdi, J.P.**, and J. Null, 1997: El Niño and California Precipitation. National Weather Service Technical Attachment 97-31.

**Monteverdi, J.P.**, 1996: Flood-producing storm types in California. Invited Paper in Preprints. Symposium on the California Floods of the Winter of 1994-1995. Sierra College, Rocklin, CA.

**Monteverdi, J.P.** and J. Quadros, 1993: Convective and rotational parameters associated with three tornado outbreaks in northern and central California. National Weather Service Western Region Tech. Mem., NWS-222.

**Monteverdi, J.P.**, 1993: A case study of the operational usefulness of the SHARP Workstation in forecasting a "cold-sector" mesocyclone-induced tornado event in northern California. National Weather Service Western Region Tech. Mem., NWS-219.

**Monteverdi, J.P.** and S.A.Braun, 1988: An investigation of the 24 September 1986 "cold sector" tornado outbreak in northern California. National Weather Service Western Region Tech. Mem., NWS-203, 52 pp.

**Monteverdi, J.P.**, 1986: Translation of German weather service documents for D-Day. Proceedings of the Conference on the Role of Meteorology in the D-Day Invasion. American Meteorological Society, Boston.

**Monteverdi, J.P.**, 1984: Comparisons among three record-rain producing storms in north-central California. Excerpted in "Summary of the LANDSLIDES AND FLOODING CONFERENCE, Stanford University, August 1982". National Academy of Sciences, Washington, D.C.

Monteverdi, J.P., 1980: The effects of the physical environment on climate. *JOUR. WATER AIR SOIL POLL.*, **12**, 23-27.

### 3. Papers Presented at Conferences and Symposia

Stumpf, C.J. and **J. P. Monteverdi**, 2011: Shear and Buoyancy Parameters for California Tornadoes From 1951—2011. To be presented at: 92nd American Meteorological Society Annual Meeting (January 22-26, 2012)

Stumpf, C.J. and **J. P. Monteverdi**, 2011: A Case for Reclassifying the F-Rating of Two Damaging Tornadoes: The 1951 Sunnyvale and the 1983 Los Angeles Convention Center Tornadoes.. To be presented at: 92nd American Meteorological Society Annual Meeting (January 22-26, 2012)

**Monteverdi, J. P.**, Umscheid, M. and E. Bookbinder, 2010: Two tornadic thunderstorms in ostensibly weak deep layer shear environments in southeastern Colorado: cyclic supercells of May 25 (Kiowa County) and May 31 (Baca County) 2010 (Poster P10.15). *AMS 25th Conference on Severe Local Storms to be held 11-15 October, 2010 in Denver, CO.*

**Monteverdi, J.P.**, and R. Edwards, 2008: HYPERLINK "[http://tornado.sfsu.edu/Activities/SLS\\_Conference\\_2008/index.html](http://tornado.sfsu.edu/Activities/SLS_Conference_2008/index.html)" [Documentation of the overland reintensification of Tropical Storm Erin over Oklahoma, August 18, 2007.](#) Paper number: P4.6. 24th Conf. Sev. Local Storms, 27-31 October, 2008, Savannah,

## Georgia

**Monteverdi, J.P.**, E. Polito, M. Gough, R. Bethke, and T. Seddon, 2008: HYPERLINK "[http://tornado.sfsu.edu/Activities/SLS\\_Conference\\_2008/index.html](http://tornado.sfsu.edu/Activities/SLS_Conference_2008/index.html)" [An Analysis of a Prolific Tornado-producing Cyclic Supercell Thunderstorm in Thayer County Nebraska, May 24, 2004](#). Paper number: P3.1, 24th Conf. Sev. Local Storms, 27-31 October, 2008, Savannah, Georgia.

Polito, Elizabeth, K. Tanner and **J. P. Monteverdi**, 2008: HYPERLINK "[http://tornado.sfsu.edu/Activities/SLS\\_Conference\\_2008/index.html](http://tornado.sfsu.edu/Activities/SLS_Conference_2008/index.html)" [Assessing middle school and college students' conceptions about tornadoes and other weather phenomena](#). Paper number: P7.2. 24th Conf. Sev. Local Storms, 27-31 October, 2008, Savannah, Georgia.

**Monteverdi, J.P.**, R. Edwards, G. Stumpf and D. Gudgel, 2006: An analysis of the 7 July 2004 Rockwell Pass, CA tornado: highest elevation tornado documented in the US. 23rd Conf. Sev. Local Storms, Preprints, St. Louis, MO.

**Monteverdi, J.P.**, K. Saussy, A. Cross, C. Meherin, C. Medjber and S. Lau, 2006: An analysis of the 22 May 2004 Furnas County, Nebraska tornadic supercell. 23rd Conf. Sev. Local Storms, Preprints, St. Louis, MO.

Blier, W., **Monteverdi, J.** and J. Null, 2005: The Historic San Francisco Flood of 25 February 2004. Amer Met Soc National Meeting, January 2005.

Friberg, E. and **J. Monteverdi**, 2005: Relationship of Warm Season Cycles in Onshore Pressure Differences to Temperatures in North-central California. Amer Met Soc National Meeting, January 2005.

Gose, E., Friberg, E., Meherin, C., and **J. Monteverdi**, 2005: Production of Television Forecasts for San Francisco State University Campus Television and the World Wide Web. Amer Met Soc National Meeting, January 2005.

Landolt, Scott D., Porter, Daniel L. and **John P. Monteverdi**, 2004: An Analysis of the June 23rd, 2002, Brown County, South Dakota Tornadic Cyclical Supercell. Preprints, P10.5, 22nd AMS Conference on Severe Local Storms, Hyannis, MA

Schlaepfer, Theodore, B. and **John P. Monteverdi**, 2004: Radar Documentation of a Cyclic Tornadic Supercell in the San Joaquin Valley, California. Preprints, P7.5, 22nd AMS Conference on Severe Local Storms, Hyannis, MA.

**Monteverdi, J.P.**, W. Blier, G. Stumpf, W. Pi and K. Anderson, 2000: First WSR-88D documentation of an anticyclonic supercell with anticyclonic tornadoes: the Sunnyvale/Los Altos, California tornadoes of 4 May 1998. In Submission For Review, *Mon. Wea. Rev.*

**Monteverdi, J. P.**, C. Doswell III, and G.S. Lipari, 2000: Shear parameter thresholds for forecasting California tornadic thunderstorms. Preprints---20#th# AMS Conference on Severe Local Storms,.

Lipari, G.S., and J.P. Monteverdi, 2000: Convective and shear parameters associated with northern and central California tornadoes during the period 1990-94. 20th AMS Severe Local Storms Conf., Orlando, FL

Schlaepfer, T. and **J.P. Monteverdi**, 2000:A case study of a well-documented right-moving tornadic supercell in the San Joaquin Valley, California. 20th AMS Severe Local Storms Conf., Orlando, FL., this volume..

**Monteverdi, J.P.**, Hanstrum, B., Doswell, C., Watson, Andrew and G. Lipari: 1998: Cool Season Tornadoes in Australia: Comparison with California cases. Presented at the 1998 Severe Storms Conference, American Meteorological Society, Sept. 14, 1998.

**Monteverdi, J.P.**, 1993: Convective and rotational parameters associated with two mesocyclone-induced tornado outbreaks in north-central California. Presented at the 1993 Severe Local Storms Conference, St. Louis, October 4.

**Monteverdi, J.P.** and J. Quadros, 1993: Convective and rotational parameters associated with three tornado episodes in northern and central California. Presented at 1993 PACLIM Conference, Asilomar, April.

**Monteverdi, J.P.** and E. Seibel, 1984: A documentation of oceanographic and meteorological anomalies on the West Coast during the El Nino event of 1982-83. SYMPOSIUM ON THE EL NINO EVENT OF 1982-1983. American Association for the Advancement of Science, Annual Meeting, San Francisco State University, June 1984.

**Monteverdi, J.P.**, 1983: Synoptic controls of recent warm season precipitation increases in a rainfall-sensitive agricultural region of California. SYMPOSIUM ON HUMAN-ATMOSPHERE INTERACTIONS IN THE SEMIARID REGIONS OF THE UNITED STATES. American Association for the Advancement of Science, Annual Meeting, Logan, Utah, June 1983.

**Monteverdi, J.P.**, 1982: Comparisons among three record-rain producing storms in north-central California. CONFERENCE ON LANDSLIDING AND FLOODING, Stanford University, August 1982.

**Monteverdi, J.P.**, 1980: An overview of the significance, patterns and meteorological controls of the precipitation variability of the Central Valley of California. American Association for the Advancement of Science, Annual Meeting, Davis, CA, June 1980.

**Monteverdi, J.P.**, 1978: A drought and an end to the drought. Association of American Geographers, Annual Meeting, New Orleans, April 1978.

#### 4. Laboratory Manuals

Monteverdi, J.P. and J. Michaelsen, 1979: A satellite photo atlas of selected weather patterns. California Book Co., Ltd., Berkeley, CA, 95 pp.

Monteverdi, J.P., 1974: Synoptic meteorology of California weather anomalies. California Book Co., Ltd., Berkeley, CA, 415 pp.

Monteverdi, J.P., Vannucci, S. and L. Gummerson, 1970: Descriptive meteorology of California weather anomalies. California Book Co., Ltd., Berkeley, CA. Two volumes: Vol. 1, 75 pp; Vol. 2, 225 pp.

#### Website Authoring

*1996-Present. Department of Geosciences*

HYPERLINK <http://tornado.sfsu.edu/geosciences/geosciences.html>  
<http://tornado.sfsu.edu/geosciences/geosciences.html>

*2000: Circulation Singularity in La Niña Winters*

HYPERLINK <http://home.earthlink.net/~montever/Singularity/DecFeb.html>  
<http://home.earthlink.net/~montever/Singularity/DecFeb.html>

*2000: La Niña May-June Composites from the Period 1951-1999: Foreshadowing of Great Plains Spring Patterns 2000*

HYPERLINK  
<http://home.earthlink.net/~montever/LaNinaComposites/Composite2000.html>  
<http://home.earthlink.net/~montever/LaNinaComposites/Composite2000.html>

*2000: The Pitfalls of Improper Use of PVA and "Overrunning" To Account for Precipitation*

HYPERLINK [http://home.earthlink.net/~montever/Jan23\\_00/Jan23.html](http://home.earthlink.net/~montever/Jan23_00/Jan23.html)  
[http://home.earthlink.net/~montever/Jan23\\_00/Jan23.html](http://home.earthlink.net/~montever/Jan23_00/Jan23.html)

*2000. Sunnyvale F2 Tornado: First Documentation of an Anticyclonic Tornado with an Anticyclonic Supercell)* HYPERLINK

"<http://tornado.sfsu.edu/geosciences/StormChasing/Cases/Sunnyvale/Sunnyvale.html>"  
<http://tornado.sfsu.edu/geosciences/StormChasing/Cases/Sunnyvale/Sunnyvale.html>

*1999: Composite 500 mb and Surface Fields in El Niño and La Niña Years: A Comparison*

HYPERLINK  
[http://tornado.sfsu.edu/geosciences/StormChasing/cases/EN\\_LN\\_Patterns/pattern\\_comparison.html](http://tornado.sfsu.edu/geosciences/StormChasing/cases/EN_LN_Patterns/pattern_comparison.html)  
[http://tornado.sfsu.edu/geosciences/StormChasing/cases/EN\\_LN\\_Patterns/pattern\\_comparison.html](http://tornado.sfsu.edu/geosciences/StormChasing/cases/EN_LN_Patterns/pattern_comparison.html)



1998. *La Niña and California Precipitation (with Jan Null)*

HYPERLINK <http://www.wdc.ndin.net/calnina.html>

<http://www.wdc.ndin.net/calnina.html>

1997: *El Niño and California Precipitation (with Jan Null)*

HYPERLINK <http://tornado.sfsu.edu/geosciences/elniño.html>

<http://tornado.sfsu.edu/geosciences/elniño.html>

1996-2005. *Personal Storm Pages*

<http://tornadochase.org>

### **University Public Relations**

Numerous interviews with local radio, television and print media on topics ranging from El Niño and La Niña, tornadoes, tornado chasing, California flood events, drought, hurricanes and global warming.

Television: Local: KTVU, KGO, KPIX, KRON, KQED  
National: NBC, CBS, Discovery Channel, Oklahoma City NBC, Bangor, Maine CBS

Radio: Local: KCBS, Live 105, KGO, KQED, KFOG

Print and Web Media: Numerous citations—CNN, San Francisco Chronicle, Examiner, San Jose Mercury News, Santa Rosa Press Democrat

### **Professional Activities**

#### 1. Field Activities

1985 to Present Time. Annual trips (between 5 and 17 days) to the Great Plains to study and document tornadic severe thunderstorms.

1987 to Present Time. Impromptu trips into the Central Valley to document strong or severe thunderstorm features.

#### 2. Visiting Appointments

Spring 2000. Visiting Scientist. National Weather Service Forecast Office, Monterey, CA.

Spring 2000. Visiting Scientist. National Severe Storms Laboratory, Norman, Oklahoma.

Spring 1990. Visiting Scientist. National Weather Service Forecast Office, Redwood City, CA.

Spring 1990. Visiting Scientist. National Severe Storms Laboratory, Norman, Oklahoma.

### 3. Grants Received

2010. Oliphant, Andrew (P.I.), **Monteverdi, J.P.** [co PI with Clements, C. SJSU], 20101, NSF — Major Research Instrumentation, CSU MAPS, “Acquisition of a Mobile Atmospheric Sounding System for Cross Campus Use”, Co-PI, ~\$700,000 1998. CET Grant. California Weather Events Web Cast Studies and Web Sites, with D. Dempsey. (\$7000)
2000. Rasmussen, Erik (CIMMS) and Straka, Jerry (Oklahoma University) (**Monteverdi, John, Leader, Probe 3**), NSF Severe Thunderstorm Electrification and Precipitation Project, Spring 2000 (Living Expenses, Per Diem Support).
1999. Rasmussen, Erik (CIMMS) and Straka, Jerry, NSF, Project VORTEX, Spring 1999 (**Monteverdi, John, Field Activity Participant**), May 1999.
1997. CET Grant. California Weather Events: WWW-Based Case Studies and Prototype Exercises, with D. Dempsey. (\$7000)
1996. CET Grant. World Wide Web Authoring in the University, with D. Dempsey and O. Garcia. (\$3000)
- National Science Foundation, Instrumentation and Lab Improvement Grant, with O. Garcia and D. Dempsey. SUN Sparc Station (5 workstations + networking) (\$56000)
1994. Justified Equipment Proposal. Tecktronic Dye-sublimColor Printer. (\$15000)
1993. Justified Equipment Proposal. Weather Graphics Lab SUN-Sparc IPX. (\$13000)
1992. Justified Equipment Proposal. Weather Graphics Lab SUN-Sparc IPX. (\$13000)
1991. COMET. COOP. With WSFO, Redwood City. (\$4000)
1991. COMET. Partners. With John Plankinton, WSFO, Redwood City. (\$3800)
1990. COMET. COOP. With WSFO, Redwood City.
1990. COMET. Partners. With E. Jan Null, WSFO, Redwood City.
1989. State Lottery Grant. Weather Graphics Lab Laser Printer. (\$3800)
1988. State Lottery Grant. Weather Graphics Lab Satellite Looping Facility. (\$8500)

1988. State Lottery Grant. Distinguished Visiting Lecturer Funds. (\$650 for C. Doswell)

1987. Student Computer Work Station Funds. Weather Graphics Lab. (\$9500)

1983. School of Science Development Grant. Modems and Graphics Equipment. (\$650)

School of Science Development Grant. Weather Station. (\$1100)

#### 4. Conferences Attended

November 2006. 23rd Conference on Severe Local Storms, St. Louis.

October 2004. 22nd Conference on Severe Local Storms, Hyannis, MA.

September 2000. 20th Conference on Severe Local Storms, Orlando, Florida.

January 2000: Annual Conference, American Meteorological Society, Long Beach, CA.

September 1998: 19th Conference on Severe Local Storms, Minneapolis, MN.

January 1998. Annual Conference, American Meteorological Society, Phoenix, AZ.

December 1997. VORTEX Results Workshop. Asilomar. Invitational Conferences Sponsored by the National Severe Storms Laboratory and the NSF.

June 1997. Weather Forecasting and Mesoscale Processes. Invitational Conference Sponsored by the University Corporation for Atmospheric Research and NSF.

February 1996. 18th Conferences on Severe Local Storms. San Francisco, CA.

June 1995. Symposium on the California Floods of the Winter of 1994-1995. Sierra College, Rocklin, CA.

January 1993. Annual Conference, American Meteorological Society, Anaheim, CA.

#### 5. Chairmanships Held

January 2004-2015: Chair, College of Science and Engineering Grade Appeals Committee

Fall 2002-Present Time: Hiring, Retention and Promotion Committee, Geosciences

Summer 1990-1998. Chair, Department of Geosciences.

February 1996. Local Coordinator, 18th Conference on Severe Local Storms

June 1993. Cochair. El Nino Symposium. AAAS Meetings, SFSU.

Spring 1993. University Academic Assessment for Dean James Kelley.

Fall 1989. Department of Geosciences Curriculum Committee.

Fall 1989-Spring 1989. Chair. Department of Geosciences Hiring, Retention, Promotion Committee.

Fall 1987-Spring 1988. Department of Geosciences Computer Committee.

Summer 1987. Acting Chair. Department of Geosciences. San Francisco State University.

Spring 1986. Acting Chair. Department of Geosciences. San Francisco State University.

Summer 1984. Acting Chair. Department of Geosciences. San Francisco State University.

1984. Cochair. El Nino Symposium. AAAS Meetings, SFSU.

1983-1987. School of Science Development Committee.

1981-1982. School of Science Development Committee.

1980. Air Pollution Section, AAAS Meetings, UC Davis.

1979-1980. Northern California Chapter. American Meteorological Society.

1979. Session 1. Sixth Environmental Symposium on the Impact of Man on Climate.

## **Professional Organizations**

### **1. Professional Organizations--Membership**

American Meteorological Society, Professional Member  
California Academy of Science  
Gamma Theta Upsilon, National Geography Honorary

### **2. Professional Organizations--Participation**

1989. Science Fair Committee. American Meteorological Society, Northern California Chapter.

1982-1983. Treasurer. American Meteorological Society, Northern California Chapter.

1979-1982. Head. Science Fair Committee. American Meteorological Society, Northern California Chapter.

1979-1980. Chair. American Meteorological Society, Northern California Chapter.

1978-1979. Program Chair. American Meteorological Society, Northern California Chapter.

### 3. Professional Meetings--Organization

November 2006, Session Chair, 23<sup>rd</sup> Conference on Severe Local Storms, St. Louis.

October 2004. Session Chair. 22<sup>nd</sup> Conference on Severe Local Storms, Hyannis, MA.

September 2000 Session Chair, Tornado Forecasting in non-Great Plains Environments, 20<sup>th</sup> AMS Conference on Severe Local Storms, Orlando, FL.

1998: Slide Presentation Coordinator. 19<sup>th</sup> Conference on Severe Local Storms, Minneapolis, MN.

1996. Local coordinator. 18<sup>th</sup> CONFERENCE ON SEVERE LOCAL STORMS. American Meteorological Society. San Francisco, CA..

1994. Co-chair of SYMPOSIUM ON THE 1991-1993 EL NINO EVENT. ANNUAL MEETING OF THE PACIFIC DIVISION. American Association for the Advancement of Science. SFSU.

1984. Co-chair of SYMPOSIUM ON THE 1982-1983 EL NINO EVENT. ANNUAL MEETING OF THE PACIFIC DIVISION. American Association for the Advancement of Science. SFSU.

1980. Chair. AIR POLLUTION SECTION. SECTION W (AMERICAN METEOROLOGICAL SOCIETY)..ANNUAL MEETING OF THE PACIFIC DIVISION. American Association for the Advancement of Science. UC Davis.

1979. Chair. SESSION 1. SIXTH ENVIRONMENTAL SYMPOSIUM ON THE IMPACT OF MAN ON CLIMATE. Mountain View.

### **Consulting Activities**

#### 1. Forensic Meteorology

2019

Trapp v. Certainteed, Weltz & Luxemberg

2018

One Rincon Hill Assoc v. One Rincon Hill Developers, Hughes, Gill, Cochrane and Tinetti

Haber v. Mowbray/Utility Tree Service. Burnham Brown Attorneys.

Mojarro v. Whittier. Jones & Mayer.

2017

Haber v. Mowbray  
SFSU v. AIG

2016

Gonzales v. North Bay Ltd et al.

2015

All 2014 Cases Continued

2014

Dang v. Chu, Manning & Kass, Ellrod, Ramirez, Trester LLP  
Liberty Mutual v. AIG, Burnham Brown  
Trapp v. Asbestos Corp, Weltz & Luxemberg  
UCSC v. Devcon, Tarkington, O'Neill, Barrack & Chong

2013

Law Firm of Richard Freeman, Vollamus Rainfall Data  
Schuler v. PGE, Sedgwick Las Firm

2012

Brunsvik v. Hartford, B Burke, Williams & Sorrensen LLP.  
Current et al. v. SBC&D Rankin, Sproat, Mires, Beaty & Reynolds  
Sheahan v. SPPC. Burke, Williams & Sorrensen LLP.

2011

Marin et al. v. Taurus Marine. Round Table Group.  
SBC&D at al., Rankin, Sproat, Mires, Beaty & Reynolds  
Taylor v. Macerich. Wood Smith Henning & Berman LLP

2010

Marin et al. v. Taurus Marine. Round Table Group.  
Wolthers v. Napell. Farmers Insurance Exchange.

2009

Borsch v. Murray. PAUL, HANLEY & HARLEY LLP. (Continued)  
ABBUSHI, ET AL. V CITY OF SF, DEVINCENZI, ET AL. V THE OLYMPIC CLUB,  
Lewis Brisbois Bisgaard & Smith LLP, (Trial)  
Peterson v. Prebelich, Tarkington, O'Neill, Barrack and Chong.  
Reata Trust v. Paragon. Manatt, Phelps and Philips

2008

Arzaga v. Shapell Industries, Inc. Wood Smith Henning & Berman LLP  
Sawaya v. A. W. Chesterton Co., et al. PAUL, HANLEY & HARLEY LLP  
Bielen v. USAA. HAYES, DAVIS, BONINO, ELLINGSON, MCLAY & SCOTT, LLP  
Terribilini. Tarkington, O'Neill, Barrack and Chong  
Mindel v. Wolff. Caseari, Werner and Moriarity

2007

BOGARD CONSTRUCTION INC. VS. COAST COUNTIES GLASS, Nelson, Perlov  
and Lee  
ABBUSHI, ET AL. V CITY OF SF, DEVINCENZI, ET AL. V THE OLYMPIC CLUB,  
Lewis Brisbois Bisgaard & Smith LLP,  
BORSCH vs MURRAY. PAUL, HANLEY & HARLEY LLP  
Hillside Gardens v BMRA. Bledsoe, Cathcart, Diestel & Pedersen, LLP

2006

ALMQUIST ET AL. V PG&E., ET AL--POE FIRE--9/6/01. Law Offices of Roye and  
Bush.  
BUECHERT V SANCHEZ ET AL., Tarkington, O'Neill, Barrack and Chong.  
MICHAEL DEMPSTER V. A. W. CHESTERTON CO., ET AL., Levin, Simes and  
Kaiser LLP  
MELVIN MENDAROS  
NATIONAL UNION AND LEXINGTON INS. V. PG&E, Morison-Knox Holden and

Prough,  
SHEAFFER V. SHEAFFER  
SANDHU V. CERTAIN UNDERWRITERS AT LLOYD'S OF LONDON, Lewis  
Brisbois Bisgaard & Smith LLP

2005

GISELE LAVIN V BARTD. Law Offices of Sanford M. Cipinko. (Trial Completed)  
BRYSON V CHESTERTON ET AL. Paul Hanley and Harley LLP. Mr. Ben Goldstein.  
MICHAEL DEMPSTER V. A.W.CHESTERTON ET AL. Levin, Simes and Kaiser,  
LLP. Mr. John Pashby (Settled)  
OLYMPIC CLUB RE 2/25/04 STORM DAMAGE. Gordon & Rees LLP. Mr. Kenneth  
Strong  
CAMENSON ET AL. V. MILGARD MFG ETAL. (SDMA-2201-125658), Sedgwick,  
Detert, Moran and Arnold (Settled)  
PENDOLA FIRE LITIGATION (FIRE 10/16/99), Law Offices of Roye and Bush.

2004

BAY VIEW APTS. V. COLORWORKS COLLEGATE PAINTERS, INC. ET AL.,  
Tarkington, O'Neill, Barrack and Chong, Mr. Chris Tarkington

GERALD/MAE FERRO V. ANDERSON, ROWE & BUCKLEY, INC. Jackson &  
Wallace, LLP. Mr. John J. Murray.

GARDNER ET EL. VS. MIDSTATE CONSTRUCTION ET AL.: SF SC #S 413467  
AND 414506. Low, Ball & Lynch, LLP. Mr. Charles Redfield

HERMAN V. IDEAL ROOFING. Tarkington, O'Neill, Barrack and Chong. Ms. Laura  
E. Malkofsky

LOW, BALL & LYNCH, LLP. Rainfall Report: Sebastopol area. Mr. Charles Redfield

NAUDE SANTOS AND ASSOCIATES (712 BRYANT ST). Gordon & Rees LLP. Mr.  
Kenneth Strong

OLYMPIC CLUB RE 2/25/04 STORM DAMAGE. Gordon & Rees LLP. Mr. Kenneth  
Strong

PEDONE V. WILLIAMS SPORTS RENTALS., ET AL. Rankin, Sproat, Mires, Beaty &  
Reynolds. Mr. Michael Reynolds.2003

2003

CAL-WALL MOULDING CO. V. BENJAMIN MOORE, ET AL. (2002AT00300-E),  
Burnham/Brown, Mr. Anthony Blalock.



PROVISION TOOLS/AVDALAS (1203/SFO276), Low, Ball and Lynch, Ms. Punam Sarad.

SAN DIEGO NATURAL HISTORY MUSEUM V. SUNDT. Luce, Forward, Hamilton and Scripps, LLP, Mr. Roger Haerr.

WILSHIRE INSURANCE CO. V GE CAPITAL MODULAR SPACE, ET AL. Rankin, Sproat, Mires, Beaty and Reynolds. Mr. Michael Reynolds.

2002

ALLIANZ INSURANCE CO. V. MILLER FREEMAN, INC. (SF Superior Court Case No. 401256). Low, Ball and Lynch, Mr. Steven Ruth.

CURRENT, ET AL. V. SBC&D Co., ET AL, Santa Clara County Superior Court No. CV775113. Low, Ball and Lynch, Mr. Chester G. Moore.

REITER V. RIDGE TOOL CO.; HOME BASE, INC. ET AL. (LASC South District Case No.: NC029099). Hennelly & Grossfeld LLP, Pacific Palisades.

SILVA V. REDLAND. (Sacramento County Superior Court Action No. 99-AS01691) Burnham and Brown, Oakland.

2001

HALKYARD ET AL. V. WDC & DLC – SEQUOIA FAIRWAYS ET AL. (Sacramento County Superior Court Action No. 99-AS01691) Burnham and Brown, Oakland.

GIBBINS V. LES SCHWAB. O'Reilley, Collins, and Danko, Menlo Park.

PEQUOP PASS INFORMATION. O'Reilley, Collins, and Danko, Menlo Park.

2000

GILSON V. WINSTON: CNA 4501: Burnham and Brown, Oakland.

MONTGOMERY WARD V. SUDLER: Clapp Moroney Attorneys at Law

SCOTTSDALE INSURANCE V. R.E.M. TRUCKING, Davidovitz & Bennett, San Francisco.

SELMAN V. LOWRY: Selman and Breitman, San Francisco.

VAN ZANT V. MAZDA ET AL.: O'Reilley, Collins and Danko, Menlo Park.

1999

WAGGONER V. RAYBESTOS-MANHATTAN, Wartnick, Chaber, Harowitz, Smith and Tigerman

LILIENTHAL V. RAYBESTOS-MANHATTAN, Wartnick, Chaber, Harowitz, Smith and Tigerman

SHEA HOMES V. AMARAL, Robinson and Wood Inc.

1998

AETNA V. WAILUA ASSOCIATES, Cooper, White and Cooper  
LILIENTHAL V. RAYBESTOS-MANHATTAN, Wartnick, Chaber, Harowitz, Smith and Tigerman  
Law Offices of Thomas Tagliarini

1997

LIBERTY MUTUAL V. BIRMINGHAM BUILDERS, Laughlin, Falbo, Levy and Moresi  
MONTGOMERY-WASHINGTON TOWER ASSN v. CROW-SPEIKER, Law Offices of Jack Provine  
STANKEY V. FISHER, Hennely and Grossfield (Pacific Palisades)  
TUSHER V. GABRIELSEN, Law Offices of Arthur Brunwasser

1996

GROSSMAN v REGAL TENTS. Levinson& Kaplan, Encino, CA.  
PEOPLE V. LINCOLN. Law Offices of Philip DeJong

1995

Cleveland, Murray, Payne and Zia  
DOERFLER V. SANTA CRUZ SNOWBOARDS. Latham & Watkins, Attorneys At Law  
ESLER/WRAUGHT V. 3351 EL CAMINO. Romines and Eichner  
GRAHAM V. PG&E. Sedgwick.  
Murray and Associates.

1994

PEREZ V. PACIFIC BELL. Law Offices of Joseph W. Carcione, Jr.  
VARIOUS CASES. Law Offices of Jon-Marc Dobrin  
SELF-SERVICE FURNITURE V. ACTION INDUSTRIES. Long and Levit.  
VARIOUS CASES. Romines and Eichner  
IMAZIO V. DANIA. Christie, Paker & Hale Lawyers

JONES, ET AL. V. TOSCO, ET AL. Law Offices of William Veen  
POULOS V. STATE OF CALIFORNIA. Murray and Associates.  
PACIFIC PARK PLAZA V. TOWER HOUSE. Law Offices of Jack Provine

1993

VARIOUS ASSIGNMENTS. Bowles & Verna  
BAXTER ET AL. V. PAINE-WEBBER ET AL. Larson & Burnham.

1992

LUI V. MARRIOTT. Bowles & Verna  
STABILE V. PRESLEY. Cartwright, Slobodin, Bokelman, Borowsky, Wartnick, Moore  
& Harris.

1991

MILES V. LAWS. Belli, Belli, Brown and Monziona  
NOBLE V. PARKSIDE. Boccardo Law Firm  
Hoge, Fenton, Jones and Appel

1990

WATTERS V. SCOTSMAN. Ropers, Majeski, Kohn, Bentley, Wagner & Kane.  
KISTLER & CURNOW V. COUNTY OF NEVADA. Newhouse & Associates.  
KINDLER V. BARTLETT. Tamchin & Bruck.  
HAIRO V. HARDENSTEIN. Bledsoe, Cathcart, Leahy, Starr & Diestel.  
YUAN V. STANFORD. Cartwright, Slobodin, Bokelman, Borowsky, Wartnik, Moore &  
Harris.  
DONOGHUE V. FIRST INTERSTATE. Gordon & Rees.

1989

The Jennings Law Group  
HASSELTINE V. CITY OF ORINDA. Mr. George Jones.  
GOODE MITSUBISHI V. STEEL COATING, INC. Adams, Duque & Hazeltine.  
BAUERLE V. WELLS FARGO BANK. Sedgwick, Detert, Moran & Arnold.  
DUQUE V. COUNTY OF STANISLAUS. Wilson, Elser, Moscovitz, Edelman &  
Dicker.  
APPEL V. OAKLAND ATHLETIC CLUB. Boornazian, Jensen & Garthe.

1988

GARBEZ V. FIBREBOARD. Hyde & Forsblad.  
PILOTTI V. NAPA SANITATION DISTRICT. Bishop, Barry, Howe, Haney & Ryder.  
AETNA V. WESTERN FOAM. Maloney & Associates.

FIREMAN'S FUND V. QUALITY TREE SERVICE. Wilson, Elser, Moscovitz, Edelman & Dicker.

1987

GOODRICH V. PANCALLO. Severson, Werson, Berke & Melchior.  
TUAN V. CITY OF EL CERRITO. William Bullard Attorney.  
FREEMAN V. COPELAND. Gassett, Perry & Frank.  
BRIDGES V. UNITED STATES. Mendes & Mount.  
LSI WEST V. CHALLENGE DEVELOPMENT. Ropers, Majeski, Kohn, Bentley, Wagner, Kane.

1986

KESSLER V. SCOTT. Michael Weisberg, Attorney-at-law.  
BYRNE V. CITY OF NOVATO. Law Offices of Reid and Axelrod.  
FASNARO V. MOONEY. Sterns, Smith, Walker and Grell.  
PROPERTY OWNERS V. CITY OF PETALUMA. Luchardt et al. Attorneys.  
PANTANO V. CITY OF BELMONT. Ropers, Majeski, Kohn, Bentley, Wagner & Kane.

1985

LINTON V. CITY OF BERKELEY. City Attorney of Berkeley.  
SAYERS V. SAN FRANCISCO WATER DEPARTMENT. City Attorney of San Francisco.

1984

REEF V. RING BROS. Ropers, Majeski, Kohn, Bentley, Wagner & Kane.  
CNA V. VARIOUS MUNICIPALITIES. Ropers, Majeski, Kohn, Bentley, Wagner & Kane.  
CARLMONT SHOPPING CENTER V. CITY OF BELMONT. Turner & Mulcare.

1983

PROPERTY OWNERS V. CHALLENGE DEVELOPMENT. Ropers, Majeski, Kohn, Bentley, Wagner & Kane.

2. [Climatological, Forecasting, Hydrometeorological and Synoptic Studies](#)

2002-Present Time

WEATHER FORECASTS, Chameleon Cellars, Saint Helena, CA.

2008

Pebble Beach Rainfall Estimates. Tarkington, O'Neill, Barrack and Chong

1994-2002

2001

DONALD AHRENS. Review of Textbook, "Introduction to the Atmosphere"  
BARBARA BLACKMAN. Climatological Information and Site Study  
HAROLD GILLIAM. Review of "Weather and Climate of the San Francisco Bay  
Region" for UC Press.

2000

WEATHER FORECASTS. Mayacamas Vintners, Napa, CA.

1999

Bedford Property Investors, WEATHER FORECASTS

1998

RAINFALL ASSESSMENTS, Hart Consultants, Inc.  
WEATHER DATA, D & K Construction and Development

1993

CLIMATOLOGICAL ASSESSMENT. McCutchen, Doyle, Brown and Enersen.  
WEATHER FORECASTS. Mayacamas Vintners, St. Helena.

1992

WEATHER DATA, SAN FRANCISCO, JUNE 1991. BART  
WIND ASSESSMENT, SAN JOSE, FEBRUARY 1986. Horeis Engineering Co.

1991

CLIMATE OF THE TIBURON PENINSULA. Farrand, Cooper and Brunner.  
WIND ASSESSMENT, OCTOBER 20, 1991. Horeis Engineering Co.

CLIMATE OF THE ANTIOCH AREA. McKeen Consulting Services.  
WEATHER CONDITIONS ASSOCIATED WITH PEROXIDE SPILL. Southern  
Pacific Transportation Company.

1990

THE CLIMATE OF THE SIERRA POINT AREA., SAN MATEO COUNTY. The Koll Co.

WIND CLIMATOLOGY OF KELLAR BEACH, SANTA BARBARA. Southwest Diversified, Inc. THE WIND EVENT OF DECEMBER 18, 1988. Alan R. Horeis, Structural Engineers.

RAINFALL, WIND FORECASTS. LaSha Inc., Building Contractors.

1989

FOG CLIMATOLOGY OF THE BRISBANE AREA. Southwest Diversified, Inc.

1987

RAINFALL ANALYSES. Lindorf and Associates, Consulting Engineers.

1986

WIND FORECASTS. SportsTravel, Inc.

RAINFALL ANALYSES. Lindorf and Associates, Consulting Engineers.

1984

WIND CLIMATOLOGY. Interactive Research Institute.

WEATHER FORECASTS. Matanzas Creek Winery.

1983

WEATHER FORECASTS. Matanzas Creek Winery.

1982

REVIEW. Weather and Its Elements. Louis Battan.

1980

REVIEW. Air Pollution, David Greenland.

1979

REVIEW. The Science and the Wonders of the Atmosphere. Stanley David Gedzelman. SYNOPTIC CLASSIFICATION OF METEOROLOGICAL PATTERNS DURING THE ARIZONA EXPERIMENT, 1957-1964. Statistics Lab, UC Berkeley.

3. Environmental Impact Reports: Enviro Inc.

1978

Creekside Development, Santa Rosa  
Riverfront Development, Fresno  
Parker Ranch Development, Saratoga  
Holly Sugar Development, Union City

1977

Brassfield Development, Fremont  
Citation Development, Fremont  
Fuller Development, Fremont

1976

Ferrari Brothers Waste Disposal Site, Mountain View  
Chevron Oil Dry Creek Exploratory Geothermal Development, Middletown

1975

Republic Geothermal Development, Middletown  
Newhall Proposal, Mountain View  
Coyote Valley Development, San Jose  
Langmuir Shopping Center, Milpitas

1974

Burmah Oil and Gas Geothermal Development, Middletown  
Norwood Creek Development, San Jose  
San Carlos Homes Development, Redwood City  
Hagen Condo Proposal, Santa Clara

1973

John Gull Subdivision, San Jose  
Williams Condo Proposal, Santa Clara  
Avco Community Development, San Jose  
Santa Monica Lands/Fig Garden Proposal, Fresno

### **Lectures**

JANUARY 2007. Chasing Storms. Keynote Address, Northern California Chapter, American Meteorological Society.

MAY 2005. Tornado Research in the Field. Keynote Address. College of Science and Engineering Student Research Showcase.

NOVEMBER 2004. California Weather Patterns. Friends of the San Mateo County Parks.

APRIL 1999: Auntie Em, Auntie Em: A Day in the Life of a Tornado Chaser. Living Lecture Series, Center for Enhancement of Teaching, San Francisco State University.

FEBRUARY 1998. How "Twister" Got It Wrong: Perspectives of a storm chaser and researcher. Thursday Colloquium. UC Davis. American Meteorological Society.

JUNE 1996. Diagnosing Patterns Favorable for Supercell Thunderstorms in California in an Operational Environment. Seminars given at National Weather Service Forecast Offices in Monterey and Hanford, CA.

MAY 1994. Great Plains West: Sacramento Valley Tornadoes. Weekly Seminar. Department of Meteorology, San Jose State University.

JULY 1993. Weather and Climate of the San Francisco Bay Region. Senior and 60's Club. SFSU.

DECEMBER 1992. Use of the SHARP Workstation in forecasting a northern California tornado event. Presented to the National Weather Service Lead Forecasters, Redwood City, CA.

JUNE 1992. An operational use of the SHARP Workstation. Presented to the National Weather Service Lead Forecasters, Redwood City, CA.

FEBRUARY 1992. The October 20, 1991 East Bay Hills Fire: Meteorological Overview. Seminar. Department of Engineering, University of California, Berkeley.

NOVEMBER 1990. A Mesocyclone-Induced Tornado in Northern California. Seminar. Department of Meteorology, San Jose State University.

JULY 1990. San Francisco Bay Area Climate: Is it Changing? Naturalists of the East Bay Park District.

FEBRUARY 1990. Operational Aspects of the Development of a Tornadic Supercellular Thunderstorm in California. Seminar. National Weather Service Forecast Office, Redwood City.

NOVEMBER 1988. The September 24, 1986 Tornadoes in Northern California. American Meteorological Society, Northern California Chapter.

JULY 1988. Climate of the San Francisco Bay Area. Naturalists of the East Bay Park District.

MAY 1987. Chasing Severe Thunderstorms: An Oklahoma Odyssey. Commemorative



Lecture Series. Department of Geography. California State University, Hayward.

MAY 1986. Severe Thunderstorms in Oklahoma. Keynote Address: Annual Dinner Meeting. American Meteorological Society, Northern California Chapter.

APRIL 1986. Chasing Severe Thunderstorms: An Oklahoma Odyssey. Commemorative Lecture Series. Department of Geosciences Seminar Series. San Francisco State University.

FEBRUARY 1986. Chasing Severe Thunderstorms: An Oklahoma Odyssey. Commemorative Lecture Series. Department of Geography. University of California, Berkeley.

NOVEMBER 1985. Normal and Abnormal West Coast Weather Patterns. American Meteorological Society, Northern California Chapter.

NOVEMBER 1984. Departmental Tea, Department of Geosciences, San Francisco State University. West Coast Climate: Is it Changing?

OCTOBER 1984. Departmental Seminar, Department of Meteorology, San Jose State University. The Impact of Anomalously Warm Sea-Surface Temperatures on West Coast Synoptic Patterns.

OCTOBER 1984. El Niño and West Coast Weather Patterns. American Meteorological Society, Northern California Chapter.

AUGUST 1984. KCBS Afternoon Magazine.

APRIL 1984. The Bay Area Climate Explained. National Audubon Society.

JANUARY 1984. Synoptic Controls on Recent Increases in Late Summer Precipitation in Nevada and California. American Meteorological Society, Northern Nevada Chapter.

DECEMBER 1983. Whither Weather? Army Corps of Engineers.

MAY 1983. The Storm of January 1982. KABL Radio Panel Discussion.

OCTOBER 1982. The Storm of January 1982: A comparison with other major storms of the last 25 years. Department of Geography Seminar, UC Berkeley.

MARCH 1981. Pacific Ocean: Bane and Boon to Weather Forecasters. Cal Academy of Sciences.

OCTOBER 1980. Normal and Abnormal California Weather Patterns. Department of Geography Seminar, UC Berkeley.

MAY 1980. Mt. Saint Helens. KTVU-TV Panel Discussion.

MAY 1980. Satellite Views of Normal and Abnormal West Coast Meteorological Patterns. Department of Meteorology, San Jose State University.

MAY and MARCH 1980. The California Environment. ESL, UC Extension.

MAY 1978. A Panel Discussion on the Drought of 1975-77. Department of Meteorology, San Jose State University.

MAY 1978. A Drought and an End to a Drought. University of California Alumni Society.

OCTOBER 1977. California Weather Extremes. Lawrence Hall of Science, Berkeley.

AUGUST 1977. The Weather and Climate of the San Francisco Bay Region. University of California Alumni Society.

APRIL 1977. Weather Patterns of the San Francisco Bay Region. Docents of the Oakland Museum.

### **Pertinent Work Experience**

1987-Present. PROFESSOR OF METEOROLOGY, SFSU.

1978-1986. ASSOCIATE and ASSISTANT PROFESSOR OF METEOROLOGY, SFSU.

1973-Present. Consulting Meteorologist.

1973-1978. Earth Science Consultant. ENVIROS INC., Los Altos, CA.

1978. LECTURER, Department of Geography, UC Davis.

1973-1978. LECTURER and ACTING INSTRUCTOR. Department of Geography, UC Berkeley.

1974-1978. INSTRUCTOR. University of California Extension, Berkeley.

1969-1978. WEATHER OBSERVER and STAFF RESEARCH ASSOCIATE. Department of Geography, UC Berkeley.