

# Curriculum Vitae **EVE GRUNTFEST** <http://www.EveGruntfest.com> July 2017

633 Ramona #126 Los Osos, CA 93402 voice: 719 551 0407 email: evegruntfest@gmail.com

## ACADEMIC TRAINING

- Ph.D. *Geography* University of Colorado at Boulder, CO 1982
- M.A. *Geography* University of Colorado at Boulder, CO 1977
- B.A. *Geography* Clark University Worcester, MA 1973

## ACADEMIC WORK EXPERIENCE

02/16- **Professional Research Associate** Resilient Communities Research Institute Cal Poly, San Luis Obispo, CA  
10/12-10/13 **Program Director** Geosciences Directorate, Atmospheric & Geospace Sciences, Nation Science Foundation, Arlington, VA  
5/08-5/12 **Director** Social Science Woven into Meteorology (SSWIM) Cooperative Institute for Mesoscale Meteorological Studies (CIMMS) & the U of Oklahoma at National Weather Center Norman, OK  
12/08- **Adjunct Faculty** Department of Geography & Environmental Sustainability, U of Oklahoma Norman, OK  
2/10-7/10 **Visiting Scientist** Laboratoire d'étude des Transferts en Hydrologie et Environnement & Geography Department Joseph Fourier U Grenoble, France  
9/09-9/10 **Co-Director** International Flash Flood Laboratory, Texas State U San Marcos, TX  
12/07- **Professor Emeritus** Geography & Environmental Studies, U of Colorado at Colorado Springs, CO  
6/00-12/07 **Professor** Geography & Environmental Studies, U of Colorado at Colorado Springs, CO  
6/05-9/06 **Visiting Scientist** National Center for Atmospheric Research Boulder, CO  
3/03-6/03 **Distinguished Chair of Geography** U of Trieste, Italy, Fulbright scholarship  
8/98 - 6/99 **Department Chair** Geography & Environmental Studies, U of Colorado at Colorado Springs, CO  
& 1/95-9/97  
10/99-6/00 **Senior Fellow** Cooperative Institute for Research in the Atmosphere, Colorado State U Fort Collins, CO & 10/97-8/98  
6/88-5/99 **Associate Professor** Geography & Environmental Studies, University of Colorado at Colorado Springs, CO  
9/80-5/88 **Assistant Professor** Geography & Environmental Studies, University of Colorado at Colorado Springs, CO  
9/79-5/80 **Visiting Instructor** Geography, University of Vermont, Burlington, VT

## REFEREED PUBLICATIONS, BOOK & BOOK CHAPTERS

Trumbo, C, L Peek, M Meyer, H Marlatt, **E Gruntfest**, B McNoldy & W Schubert (2016) A cognitive-affective scale for hurricane risk perception **Risk Analysis** DOI: 10.1111/risa.12575

**Weather & Society: Toward Integrated Approaches** textbook to be published by Wiley Blackwell 2017

Ruin, I, C Lutoff, B Boudevillain, J-D Creutin, S Anquetin, M Bertran Rojo, L Boissier, L Bonnifait, L, M Borga, L Colbeau-Justin, L Creton-Cazanave, G Delrieu, J Douvinet, E Gaume, **E Gruntfest**, J-P Naulin, O Payrastre & O Vannier 2014 Social & hydrological responses to extreme precipitations: An interdisciplinary strategy for post-flood investigation **Weather, Climate & Society** 6 1 135-153 doi: <http://dx.doi.org/10.1175/WCAS-D-13-00009>

Ruin, I, C Lutoff, L Creton Cazanave, S Anquetin, M Borga, S Chardonnel, J-D Creutin, JJ Gourley, **E Gruntfest**, S Nobert & J Thielen 2012 A space-time framework for integrated studies - summer school about water & society **Bulletin of the American Meteorological Society** 93(10) 89-91

Creutin J-D, M Borga, **E Gruntfest**, C Lutoff, D Zoccatelli & I Ruin 2012 A space & time framework for analyzing human anticipation of flash floods **Journal of Hydrology** <http://dx.doi.org/10.1016/j.jhydrol.2013.11.009>

Schultz, D, **E Gruntfest**, C Benight, M Hayden, S Drobot & L Barnes 2010 Decision making by Austin, Texas residents in hypothetical tornado scenarios **Weather, Climate & Society** 2 (3) 247-252

League, C, W Diaz, B Philips, E Bass, **E Gruntfest**, K Kloesel & A Gessner 2010 Emergency manager decision-making & tornado warning communication **Meteorological Applications** 17 163-172

**Gruntfest, E**, I Ruin & C League 2009 Learning from flash floods: Driver behavior in high water conditions **Colorado Water - Newsletter of the Colorado Water Center of Colorado State U** 26(4) 8-9

**Gruntfest, E** 2009 Editorial **Journal of Flood Risk Management** 2(2) 83-84

Kuhlman, K, **E Gruntfest**, G Stumpf & K Scharfenberg 2009 Beyond storm-based warnings: An Advanced WAS \* IS workshop to study communication of probabilistic hazardous weather information American Meteorological Society - [ams.confex.com/ams/pdfpapers/150887.pdf](http://ams.confex.com/ams/pdfpapers/150887.pdf)

**Gruntfest, E**, P Showalter & I Ruin 2008 Flash flood research—past, present & future **Natural Hazards Observer** September 11-12

Ruin, I, J-D Creutin, S Anquetin, **E Gruntfest** & C Lutoff 2008 Human vulnerability to flash floods: addressing physical exposure & behavioural questions **Flood Risk Management: Research & Practice** edited by P Samuels et al Routledge 1005-1112

Demuth, J, **E Gruntfest**, S Drobot, R Morss & J Lazo 2007 Weather & Society \* Integrated Studies (WAS\*IS): building a community for integrating meteorology & social science **Bulletin of the American Meteorological Society** 88(11) 1729-1737

Barnes, L, D Schultz, **E Gruntfest**, C Benight & M Hayden 2007 False alarms & close calls: a conceptual model of warning accuracy **Weather & Forecasting** 22 1140-1147

Benight, C, **E Gruntfest**, M Hayden & L Barnes 2007 Trauma & short fuse weather perceptions **Environmental Hazards** 7 220-226

Drobot, S, C Benight & **E Gruntfest** 2007 Risk factors for driving into flooded roads **Environmental Hazards** 7 117-134

Hayden, M, S Drobot, **E Gruntfest**, C Benight, S Radil & L Barnes 2007 Information sources for flash flood warnings in Denver, CO & Austin, TX **Environmental Hazards** 7 211-219

Downton, M, R Morss, **E Gruntfest**, O Wilhelmi & M Higgins 2005 Interactions between scientific uncertainty & flood management decisions: two case studies in Colorado **Environmental Hazards** 6 134-146

Morss, R, O Wilhelmi, **E Gruntfest** & M Downton 2005 Flood risk uncertainty & scientific information for decision-making: lessons from an interdisciplinary project **Bulletin of the American Meteorological Society** 86 11 1594-1601

Montz, B & **E Gruntfest** 2002 Flash flood mitigation: recommendations for research & applications in **Global Change Environmental Hazards** 4 1 March 15-22

**Gruntfest, E** & J Handmer 2000 **Coping with Flash Floods** book & chapters Kluwer Academic Publishers, Dordrecht, 2001, edited collection based on the findings from the NATO Advanced Study Institute held in Ravello, Italy November 8-18, 1999

**Gruntfest, E** & S Jennings 2003 Flooding in **Handbook of Weather, Climate & Water** edited by T Potter & B Colman (eds) Wiley Interscience 691-705

Weaver, J, **E Gruntfest** & G Levy 2000 Two Floods in Fort Collins, Colorado Learning From a Natural Disaster **Bulletin of the American Meteorological Society** May 2359-2366

**Gruntfest, E** 1999 Flash floods in the United States in **Storms** edited by R Pielke, Jr & R Pielke, Sr Routledge 192-207

**Gruntfest, E** & A Ripps 2000 Reducing loss susceptibility in flash floods in **Floods** edited by D Parker Routledge 377-390

**Gruntfest, E** 2000 Nonstructural mitigation of flood hazards in **Inland Flood Hazards: Human, Riparian & Aquatic Communities** edited by E Wohl Cambridge U Press 394-410

- Gruntfest, E** 1999 The social & economic impacts of extreme floods published in **Proceedings US-Italy Workshop on the Hydrometeorology Impacts & Management of Extreme Floods** edited by J Salas
- Gruntfest, E & M Weber** 1998 The Internet as a tool: implications for emergency management & disaster mitigation in **International Journal of Mass Emergencies & Disasters** 161 55-72
- Gruntfest, E** 1997 **What We Have Learned Since the Big Thompson Flood: Twenty Years Later** (editor) published by Natural Hazards Research & Applications Information Center Boulder, CO Special Publication 33
- Gruntfest, E** 1994 The technological dilemma in flood loss reduction: lessons from the 1993 summer midwestern floods in **The Image of Technology Selected Papers from the 1994 Conference Society for the Interdisciplinary Study of Social Imagery** edited by W Wright & S Kaplan 295-299
- Gruntfest, E & D Pollack** 1994 Mitigation & litigation: lessons from the St Louis 1993 flood **Update Water Resources** April 40-44
- Gruntfest, E** 1994 Flood disaster relief, rehabilitation, & reconstruction in **Coping with Floods** edited by G Rossi, N Harmancioglu & V Yevjevich NATO ASI Series Kluwer Academic Publishers, Dordrecht 723-733
- Gruntfest, E** 1993 Summary of the state of the art in flash flood warning systems in the US **Prediction & Perception of Natural Hazards** edited by J Nemecek et al, Kluwer Academic Publishers, Dordrecht 119-124
- Gruntfest, E & C Huber** 1991 Toward a comprehensive national assessment of flash flooding in the United States **Episodes** March 26-35
- Gruntfest, E** 1990 Assessing programme effectiveness: A 1987 report on warning systems in the USA **Hazards & the Communication of Risk** edited by J Handmer & E Penning-Rowsell, Gower Technical UK 195-203
- Gruntfest, E** 1989 Geographic perspectives on women: a status report **Geography in America** edited by G Gaile & C Wilmott, Merrill Publishing Company Columbus, OH 673-683
- Gruntfest, E & C Huber** 1989 Status report on flood warning systems in the United States in **Environmental Management** 13(3) 279-286
- Gruntfest, E** 1987 Warning dissemination & response with short lead times **Flood Hazard Management British & International Perspectives** edited by J Handmer, Geo Books UK 191-202
- Gruntfest, E** 1986 Pre-flood/post-flood mitigation planning: The Manitou Springs, Colorado case **International Journal of Mass Emergencies & Disasters** November
- Gruntfest, E & L Houser** 1986 The availability of flood insurance for mobile home dwellers in Colorado Springs, CO **Journal of Environmental Systems** November 179-187
- Montz, B & **E Gruntfest** 1986 Changes in American urban floodplain occupancy since 1958: the experience of nine cities **Applied Geography** October 325-338
- Gruntfest, E, T Huber & L Lapalme-Roy** 1984 Use of wood as fuel in North America: prospects & problems **Journal of Environmental Systems** 14(3) 321-331
- Gruntfest, E & M Eichen** 1984 Public opposition to large scale soft technology in Vermont: four case studies **Journal of Environmental Systems** 14(2) 137-146
- Huber, T & **E Gruntfest** 1983 Flood & avalanche hazard in Colorado: political implications of the new federalism **Environmental Management** 7(6) November 505-510
- Gruntfest, E** 1982 Assessment of research on individual behavioral response to warnings of extreme events **Proceedings of the International Symposium on the Real Time Operation of Hydrosystems** Water Resources Publications 35-43

**Gruntfest, E, T** Downing & GF White 1978 Big Thompson flood exposes need for better flood reaction system to save lives **Civil Engineering** February 72-74

## GRANTS & AWARDS

- 12/14 **Recipient** of the Gilbert White Service Honors Award from the Association of American Geographers
- 08/10-02/12 **Principal Investigator** Ethnography of Emergency Managers, Earth Systems Research Laboratory Global Systems Division Director's Discretionary Fund \$107,000
- 07/09-12/09 **Principal Investigator** Social Science Research Component, Earth Systems Research Laboratory Global Systems Division Director's Discretionary Fund- Integrated Hazard Information Services Stakeholder Survey & Workshop Boulder, CO \$50,000
- 5/10-12/11 **Principal Investigator** Social Science Research Component Earth Systems Research Laboratory Global Systems Division Director's Discretionary Fund Evaluating the Personal Weather Advisor \$20,000
- 8/10-8/12 **Principal Investigator** Social Science Research Components Warn on Forecast National Oceanic & Atmospheric Administration National Severe Storms Laboratory \$100,000
- 3/09-2/12 **Collaborator** Dynamics of Hurricane Risk Perception National Science Foundation \$40,000 (w C Trumbo & others)
- 1/09 **Recipient of Kenneth E Spengler Award** – American Meteorological Society
- 5/08-5/11 **Principal Investigator** Social Science Woven into Meteorology (SSWIM) National Weather Center NOAA Cooperative Institute for Mesoscale Meteorological Studies & U of Oklahoma \$600,000
- 12/08-8/12 **Principal Investigator** Support for the End User Integration Research Thrust to the Center for Collaborative Adaptive Sensing of the Atmosphere - CASA (a National Science Foundation Engineering Research Center) \$200,000
- 10/06-10/09 **Co-Principal Investigator** National Center for Atmospheric Research Development of Compendium of WAS\*IS course materials for use by Atmospheric Science classes (w J Demuth & S Drobot) \$150,000
- 6/05-8/11 **Project Director WAS\*IS (Weather & Society Integrated Studies)** National Center for Atmospheric Research, seven workshops in Boulder, CO, one workshop in Norman, OK, one workshop in Melbourne, Australia [www.sip.ucar.edu/wasis](http://www.sip.ucar.edu/wasis)
- 7/04-12/04 **Co-Principal Investigator** National Center for Atmospheric Research Learning from the 1993 Superstorm \$7,000
- 7/03-12/08 **Principal Investigator** National Science Foundation Toward Improved Understanding of Warnings for Short-Fu Weather Events \$422,951 (w C Benight)
- 8/02 **Principal Investigator** Coping Self-efficacy & Evacuation from Wildfire Quick Response Grant: Nat Hazards Research & Applications Center Boulder, CO \$3,200 (w C Benight)
- 6/02-6/03 **Principal Investigator** National Research Council Collaboration in Basic Science & Engineering for collaboration between Slovenia & US for flash flood & landslide research \$8,700 (w B Montz & M Brilly)
- Principal Investigator** An Evaluation of the Boulder Flood Warning System, Urban Drainage & Flood Control District & Boulder County, CO \$40,000
- 3/01-12/01 **Principal Investigator** Learning From False Alarms, US Bureau of Reclamation, Denver, CO \$15,539
- 8/99-6/00 **Principal Investigator** Coping with Flash Floods proposal to hold an Advanced Study Institute Ravello, Italy November 7-18, 1999 NATO \$65,000
- 7/98 **Principal Investigator** Alternative Uses of ALERT Data US Bureau of Reclamation \$6,000
- 8/98-10/98 **Co-Principal Investigator** Course Support for Humans & Environments Class Global Change Program U of Colorado \$7,500 (w K Warner)
- 6/95-6/96 **Principal Investigator** Learning from the 1993 Midwestern Floods Quick Response Proposal Natural Hazards Research & Applications Information Center Boulder, CO \$2,500
- 7/93 **Selected Participant** National Endowment for the Humanities Summer Course Images of Amazonia U of California, Berkeley, CA \$4,000
- 6/92-8/92 **Advisor** Grant for student research project The Elevation Question in Colorado Front Range Floods: A Review of the Literature & a Synopsis of Agency Perspectives, Natural Hazards Research & Applications Information Center Boulder, CO \$1,000
- 6/92-1/93 **Principal Investigator** Weather Service Modernization: A Boulder Experiment, NOAA & Environmental Research Laboratory, Boulder, CO \$25,000
- 4/92-4/93 **Principal Investigator** Flash Flood Hazard Mitigation: Comprehensive Assessment, National

- 2/88-1/92 Science Foundation \$124,896  
**Principal Investigator** Flash Flood/Dam Failure Warning System Survey, US Bureau of Reclamation, Interagency Personnel Agreement Denver, CO \$10,000
- 6/87-10/87 **Principal Investigator** Household Leakage Survey at Fort Carson USA Construction Engineering Research Laboratory Colorado Springs, CO \$34,733
- 5/87-8/87 **Principal Investigator** What We Have Learned Since the Big Thompson Flood, Symposium July 17-19, 1986, National Science Foundation, National Oceanic & Atmospheric Administration Environmental Research Laboratory & US Army Corps of Engineers \$45,000
- 1/86-12/86 **Principal Investigator** Comprehensive Assessment of Flash Floods in the US, National Science Foundation \$125,000
- 3/86-2/90 **Principal Investigator** Flash Flood Hazard Mitigation, Quick Response Research, Ventura California  
 February 1992 to study warning system, Natural Hazards Research & Applications Information Center Boulder, CO \$2,300
- 1988-1992 **Selected Participant** National Endowment for the Humanities Summer Course, Perception of Landscape  
 in Art & Literature, City U of New York, NY, NY \$3,000
- 5/85 **Principal Investigator** Flood Hazard Mitigation Planning for Manitou Springs, CO, Federal Emergency Management Agency, Published Report & Slide/Tape Presentation \$25,000
- 1/85-7/85 **Co-Principal Investigator** Assessment of Environmental Hazards in Colorado Springs, CO Department of  
 Local Affairs, (w T Huber) \$1,500
- 11/84-6/85 **Recipient** Travel Grants from the National Research Council to attend the International Geographical  
 Union (IGU) meeting in Paris 1984, \$700 & the IGU meeting in Australia \$1,000
- 6/84-8/88 **Co-Principal Investigator** Courting Disaster, Elderly in Mobile Home Parks in Hazardous Areas (w R Larkin) \$750
- 7/84 **Co-Principal Investigator** Ice Jams in Vermont Quick Response Research, Natural Hazards Research & Applications Information Center & U of Colorado Institute of Behavioral Science, Boulder, CO (w M Ottum) \$1,300
- 1/84 **Principal Investigator** Changes in Flood Plain Land Use in American Cities Since 1958, UCCS Research & Creative Works Awards Committee \$3,180
- 6/82-12/82 **Co-Principal Investigator** Mobile Homes & Energy Conservation, Energy Research Institute, Golden, CO  
 (w R Czerniak) \$3,500
- 5/81-12/81

#### **SPONSORED RESEARCH PUBLICATIONS, ABSTRACTS & REPORTS**

Marlatt, H, CW Trumbo, L Peek, M Lueck, E Gruntfest, BD McNoldy & WH Schubert 2011 Dynamics of hurricane risk perception Preprints, American Meteorological Society Seattle, WA

Trumbo, CW, L Peek, BD McNoldy, WH Schubert, E Gruntfest, H Marlatt & M Lueck 2011 Dynamics of hurricane risk perception Preprints, Engineering Research & Innovation Conference, Atlanta, GA National Science Foundation

Trumbo, CW, H Marlatt, L Peek, M Lueck, BD McNoldy, WH Schubert, E Gruntfest & J Demuth 2010 Changes in risk perception for hurricane evacuation among gulf coast residents 2006-2008 Preprints Society for Risk Analysis Annual Meeting Salt Lake City, UT

*Observing Weather & Climate From the Ground Up A Nationwide Network of Networks* 2008 National Research Council, Board on Atmospheric Sciences & Climate (w others)

The Warning Project: Toward Improved Understanding of Warnings for Short-Fuse Weather Events *Weather & Society Watch Newsletter* <http://www.sip.ucar.edu/news/highlights1/jsp> Fall 2006

What We Have Learned Since the Big Thompson Flood *Fort Collins Coloradoan* newspaper editorial July 31, 2006

*Flash Flood Forecasting over Complex Terrain With an Assessment of the Sulphur Mountain NEXRAD in Southern California* 2005 National Research Council, Board on Atmospheric Sciences & Climate (w others)

*Evaluation of National Weather Service Flood Severity Categories & Use of Gage Station Flood History Information Report* 2004 prepared for National Oceanic & Atmospheric Administration/National Weather Service, Office of Hydrologic Development (w D Ford & K Carsell)

[An Evaluation of the Boulder Creek Local Flood Warning System](#) Urban Drainage & Flood Control District & City & County of Boulder 2002 (w K Carsell & T Plush) [www.udfcd.org/FWP/LFWSresearch.htm](http://www.udfcd.org/FWP/LFWSresearch.htm)

*The Warning Process: Toward an Understanding of False Alarms* 2000 US Bureau of Reclamation (w K Carsell)

*Beyond Flood Detection Alternative Applications of Real-Time Data* 1998 US Bureau of Reclamation (w P Waterinckx)

*A Review of Recent Recreation Research & Potential Application for Long Term Monitoring in the Grand Canyon* 1992 prepared for the National Research Council Water Science & Technology Board workshop on Long Term Monitoring in the Grand Canyon

*Twenty Years in Quick Onset Hazard Warnings: Progress, Problems & Prospects* 1992 prepared for the NSF sponsored invitational meeting on Prospects for the Next Hazards Assessment Estes Park, CO July

*Options for Mitigating Ice Jam Flooding* 1995 prepared for the US Army Corps of Engineers Cold Regions Research & Environmental Laboratory Hanover, NH 45 pp

*Proceedings of the Multi-Objective Stream Corridor Management Conference* (editor & contributor) 1999 published by the Assn of State Floodplain Managers

*Flash Flood/Dam Failure Warning System Survey* 1987 prepared for the US Bureau of Reclamation

*What We Have Learned Since the Big Thompson Flood* 1986 Editor & Contributor, Special Publication 16 Natural Hazards Research & Applications Information Center, U of Colorado, Boulder, CO

*Manitou Springs Flood Hazard Mitigation Plan* 1985 Center for Community Development & Design, sponsored by the Federal Emergency Management Agency, the Colorado Department of Disaster Emergency Services & City of Manitou Springs

*The Environmental Hazards of Colorado Springs* 1985 Boulder, Natural Hazards Research Working Paper #54 (w T Huber)

*What People Did During the Big Thompson Flood* 1977 Working Paper 32 Institute of Behavioral Science, U of Colorado, Boulder, CO

## PROFESSIONAL SERVICE

01/6/2015 **Panelist** Ten Years of the WAS\*IS Movement: How the first decade's culture change will shape action in the next decade American Meteorological Society Phoenix, AZ

12/19/2014 **Invited talk** Flash flooding: Ways that science & adaptation reduce losses American Geophysical Union San Francisco, CA

8/18/2014 **Invited keynote speaker** World Weather Open Science Congress How Social Sciences are & are not being woven into meteorological science Montreal, Quebec, Canada <https://vimeo.com/107055608>

8/2014 **Invited talk** Theory to practice – Translating emergency management research Emergency Management Ph.D. class Jacksonville State U Jacksonville, AL

10/11-6/12 **Committee member** National Research Council Committee on the Assessment on the National Weather Service's Modernization Program Board on Atmospheric Science & Climate

12/11 **Invited speaker** PhD Hydrology Seminar U of Texas San Antonio



9/11 **Co-presenter** What Makes Our Partners Tick? An Ethnography of Emergency Managers: Bringing New Perspectives to the Forecast Software Development Process Integrated Hazards Information Systems Meeting NOAA Boulder, CO September 27 (w J Spinney)

9/11 **Invited speaker** What motivates & hinders public response: Research & experience National Weather Service  
Integrated Warning Team meeting Indianapolis, IN September 8

5/11 **Invited speaker** Water & Society A Space-Time Framework for Integrated Studies Summer School May 8-13 Les Houches, France

4/11 **Invited speaker** Weather, Society & Emergency Management: Moving from what WAS to what IS National Hurricane Conference Atlanta, GA April 18

4/11 **Invited keynote speaker** Integrating Social Science into Meteorology & Hydrology & What We Know About How People Behave in Floods Severe Storms Conference, U of Incarnate Word San Antonio, TX April 2

1/11 **Presenter** Weaving Social Science into Atmospheric Science: Progress & Challenges American Meteorological Society  
Seattle, WA January 25 link to recording: <http://ams.confex.com/ams/91Annual/flvgateway.cgi/id/17828?recordingid=17828>

1/11 **Presenter** Evaluation of the Personal Weather Advisor Tool, Environmental Systems Research Laboratory, NOAA  
Boulder, CO January 17

8/10 **Invited keynote speaker** National Weather Service Integrated Warning Team meeting Cedar Rapids, IA

9/10 **Invited lecturer** Progress in Weaving Social Science into Meteorology Advanced Warning Operations Course National Weather Service Warning Decision Training Branch <http://www.wdtb.noaa.gov/courses/awoc/ICCore4/Lesson4/player.html>

5/10-5/13 **Member** Science Advisory Board National Oceanic & Atmospheric Administration (NOAA)

5/05 – 8/11 **Inventor & co-leader** Weather & Society \* Integrated Studies Movement WAS \* IS

11/09 **Invited visiting scientist** Environmental Center U of North Florida Jacksonville, FL

10/09 **Invited keynote speaker** International Flash Flood Laboratory Texas State U San Marcos, TX

8/09 **Invited speaker** Water & Society Integrated Studies workshop Kansas City, MO August 25

3/09-3/12 **Elected member** Commission Steering Committee of the Commission on the Weather Climate Enterprise American Meteorological Society

12/09 - **Associate editor** *Weather, Climate & Society*

12/08-9/10 **Associate editor** *Journal of Flood Hazard Risk Mitigation*

05/09 **Invited speaker** Integrating Social Science into Meteorology: Progress in Moving from WAS to IS With Evidence From Remarkable WAS \* IS Voyages into a New World - NOAA ESRL-NCAR Seminar Series Webinar  
Boulder, CO

01/09 **Invited speaker & organizer** Integrated Warning Team workshop National Weather Service Kansas City, MO January 21-23

01/08 **Invited speaker** New Initiatives That Integrate Social Science & Policy Into Weather & Climate Work - International Sessions American Meteorological Society sponsored by National Weather Service, Phoenix, AZ January 9

10/08 **Invited keynote speaker** New Initiatives That Integrate Social Science Into Meteorology - Southern New England Weather Conference, Dedham, MA October 25

10/08 **Invited speaker** National Weather Service Great Divide Workshop, Billings, MT

09/15-17/08 **Organizer, speaker & convener** Advanced WAS \* IS workshop with Hazardous Weather Testbed Norman, OK

09/2008 **Invited speaker** National Weather Service High Plains Conference Hayes, KS September 4

11/07 **Invited lecturer** Weather & Society Integrated Studies, Geography Department U of North Carolina  
Charlotte, NC  
November 16

11/07 **Invited lecturer** Weather & Society Integrated Studies, Geography Department, U of South Carolina,  
Columbia, SC  
November 15

11/07 **Invited lecturer** Weather & Society Integrated Studies, Civil Engineering Dept, U of Texas San Antonio,  
TX November 2

06/07 **Invited lecturer** Integrating social science into meteorology, American Meteorological Society Weather,  
Analysis &  
Forecasting Conference Park City, UT June 25

06/07 **Invited presenter** at the National Hydrologic Warning Council meeting, Savannah, GA June 12, 13

05/07 **Invited lecturer** Civil Engineering/Hydrology Department U of Florence, Italy

04/07 **Invited lecturer** Laboratoire Territoires-UMR Pacte Hydrology Grenoble, France

02/07 **Invited lecturer** Skywarn Training National Weather Service, San Antonio, TX February 24

02/07 **Invited lecturer** Advanced Studies Program, National Center for Atmospheric Research, Boulder, CO  
February 21

11/07 **Invited lecturer** Changing the Culture of Meteorology to Embrace Societal Impacts - Moving from WAS  
to IS at The  
Weather Channel, Atlanta, GA November 13

10/06 -10/09 **Elected member** President's Advisory Council for University Relations University Corporation for  
Atmospheric  
Research

10/06-1/10 **Chair of Board on Societal Impacts** American Meteorological Society

10/06- 6/08 **Committee member** National Research Council, Board on Atmospheric Science & Climate, Developing  
Multipurpose  
Mesoscale Meteorological Observations to Meet Multiple National Needs

12/06 **Invited lecturer** THORPEX Landshut Germany, Integrating Social Science to Improve the Effectiveness of  
Forecasting &  
the Benefits of Research – Implementing the Change in Meteorology & in Meteorologists December 7

10/06 **Invited presenter** Changing the Culture of Meteorology to Embrace Societal Impacts – Moving from WAS to  
Great  
Divide Workshop, National Weather Service Billings, MT

06/06 **Invited reviewer** of South Australia warning system Adelaide, Australia

06/06 **Invited lecturer** Flash Flood summer school in Montpezat, Provence France June 15-20

01/06 **Interviewed expert** Atlas Media Weather Channel program *It Could Happen Tomorrow* flash flood episode

06/05-6/08 **Board member** Societal Impacts Program, National Center for Atmospheric Research, Boulder

7/05 **Moderator** invitational Natural Hazards meeting Boulder, CO sponsored by the Natural Hazards  
Research &  
Applications Information Center July 11 session on communication

07/05 **Invited participant** Citizen Information Needs in Crisis, National Academy of Sciences National Research  
Council,  
Computer Science & Technology Board Washington, DC

05/05 **Invited participant** US Weather Research Program workshop to consider International Hydrometeorological  
Testbed Washington, DC

4/05 **Invited presidential lecturer** Department of Geography, U of Oklahoma, a series of 3 lectures to  
classes & the public  
Risky Business: Innovations in Natural Hazards Public Education Based on Research & Practice  
Norman, OK

02/05 **Invited participant** Hurricane workshop Developing the Social Science Agenda Pomona, CA

4/05 **Keynote speaker** Improving Short-fuse warnings for flash floods: a Denver case study Idaho Emergency  
Managers &  
National Weather Service meeting Pocatello, ID

2/04 **Invited speaker** U of Arizona Geography Department February 4 Tucson, AZ

12/03-8/04 **Committee member** National Research Council, Board on Atmospheric Sciences &  
Climate NEXRAD Flash Flood Forecasting Capabilities at Sulphur Mountain, CA



Washington, DC

11/03-12/04 **Consultant** on the evaluation of a flood severity scale for the National Weather Service, collaborating with David Ford Consulting Engineers Sacramento, CA

10/04 **Invited review team member** for National Oceanic & Atmospheric Administration Science Advisory Board to review Cooperative Institute for Mesoscale Meteorological Studies Norman OK

7/04 **Invited presenter** for the Advanced Warning & Operations Course, Warning Decision Training Branch, National Weather Service Norman OK July

4/04 **Presenter** Colorado Mitigation & Wildfire Conference, Lessons from 2002 Colorado Wildfires Colorado Springs, CO

7/03 **Moderator** Invitational Natural Hazards meeting Boulder, CO sponsored by the Natural Hazards Research & Applications Information Center July 16 for session Leveraging New Media to Raise Public Awareness About Risk

4/03 **Reviewer** for THORPEX as part of World Weather Research Program

3/03 & 9/03 **Interviewee** Floodsafety.com-on camera interview for flash flood documentary, Austin, TX February & the *Washington Post*, September 18, pp 1,7 regarding expected flooding for Washington DC area as part of Hurricane Isabel

2/03 **Organizer & Chair** American Meteorological Society paper sessions on hydrology & meteorology February 12 meeting in Long Beach, CA

2/02, 6/04 **Invited reviewer** National Science Foundation Panel Washington, DC

03/02 **Steering committee member** Quantitative Precipitation Forecasting, US Weather Research Program, National Center for Atmospheric Research October 8, Talk presented in Boulder, CO Workshop March 4

4/02-5/02 **Invited visiting scientist** one month Environmental Societal Impacts Group National Center for Atmospheric Research Boulder, CO

8/27/02 **Invited keynote presenter** Flash Flood Workshop, Social Science & Warnings National Weather Service Boulder, CO August 27

08/00 **Invited participant** at the Crowding the Rim Symposium held at Stanford U, Palo Alto, CA

7/16/00-8/05/00 **Invited lecturer** at U for Foreigners, National Group for Prevention of Hydro-Geological Disasters, V Resources Research & Documentation Centre, Perugia, Italy & **keynote speaker & teacher** for 3-week class on warning process & Symposium to Commemorate the Closing of the International Decade of Natural Disaster Reduction

10/98-present **Consultant** to Learning Channel, History Channel, Discovery Channel & National Geographic Production team developing flash flood documentary films

10/98-12/00 **Board member** Assn of State Floodplain Managers Regents for Certification of Floodplain Managers

10/98-6/2000 **Committee member** National Research Council, Computer Science & Technology Board Computing & Communications Research to Enable Better Use of Information Technology in Government Washington, DC

6/98-10/98 **Elected member** Nominating Committee for Assn of American Geographers officers

10/97-8/98 **Member** Post Flood Disaster Team developing warning system specifications for Fort Collins, CO

12/97-present **Member** of Editorial Board: *Jewish Social Work Forum*

10/95-10/96 **Organizer** of Symposium What We Have Learned Since the Big Thompson Flood, Twenty Years Later in Fort Collins, CO July 10-13 Sponsored by US Army Corps of Engineers, USGS & FEMA

1/93-present **Invited instructor** for updating the training for National Weather Service personnel, Boulder, speaking about warnings & lessons from social science, Operational Meteorology Education & Training, Warning Decision making workshop

5/94, 96 **Invited speaker** at the California ALERT users group, Asilomar & Ventura CA

3/93, 3/94 **Invited lecturer** to Engineering class Experience with Flood Detection & Response Systems at Colorado State U Ft Collins, CO

3/94 **Invited representative** Natural Hazards Research & Applications Information Center International Decade for Natural Hazard Mitigation Conference Cartagena, Colombia

6/93-6/94 **Consultant** City of Aurora, CO on public education materials for flooding

5/93 Interviewed by Weather Channel for documentary on technology & forecasting  
3/93, 2/96 **Consultant** the National Weather Service Post Disaster Survey Assessment Team for flooding in Northeastern US, Harrisburg, Binghamton, Washington, DC & for March Superstorm, Philadelphia, New York, Washington & Boston

2/93 **Invited lecturer** COMET program, Boulder, part of courses retraining program National Weather Service Meteorologists & Hydrologists

1/93 **Committee member** work with state of Kentucky on flood hazard mitigation Lexington, KY

11/1-11/15/92 **Invited participant** in the NATO Conference: Coping with Floods in Erice, Italy  
9/92-10/06 **Member** U of Colorado advisory committee to the Natural Hazards Research & Applications Information Center

4/92-6/94 **Chair** Commission on the Status of Women in Geography Assn of American Geographers  
2/92 **Invited participant** World Congress on Natural Hazard Mitigation, New Delhi, India

2/91 **Invited keynote speaker** Grand River Conservation Authority, Cambridge Ontario, Canada annual meeting

12/90 **Invited participant** workshop to establish a Mesoscale Initiative Societal Aspects, National Center for Atmospheric Research Boulder

6/90-6/91 **Program chair** Assn of State Floodplain Managers Annual meeting in Denver, CO  
11/90 **Invited participant** research design team of the Local Weather Information Experiment, Environmental Research Laboratory, National Weather Service, Boulder, CO

10/90-10/96 **Invited member** Colorado Natural Hazards Mitigation Council  
6/90 **Consultant** National Oceanic & Atmospheric Administration, Flood Disaster Survey Team, Oklahoma, Arkansas, Texas & Louisiana

4/90 **Invited lecturer** U of Louisville, Graduate School of Urban Policy Louisville, KY  
2/90 **Invited speaker** seminar on flood/warning/preparedness systems sponsored by the Federal Interagency Floodplain Management Task Force Washington, DC

1/90-2/92 **Consultant** *P3 The Earth Based Magazine for Kids*  
5/89-6/90 Chair, Assn of State Floodplain Managers Research Committee  
9/88-4/89 **Conference coordinator** Urban Stream Corridor & Stormwater Management Colorado Springs, CO, March 14-16 sponsored by Environmental Protection Agency & Assn of State Floodplain Managers

5/87-8/88 **Project supervisor** Construction, Engineering, Research Laboratory, Champaign, IL Household Leakage Survey at Fort Carson, CO

12/87 **Invited lecturer** hazards research at Illinois Institute of Technology, Kent College of Law Chicago, IL

5/86-5/90 **Committee member** National Research Council Water Science & Technology Board, Committee on Glen Canyon Environmental Studies & preparation of Environmental Impact Statement

5/86- **Committee member** Research & Arid West Subcommittee of the Assn of State Floodplain Managers

3/86-6/89 **Liaison** Geographic Perspectives on Women Specialty Group to the International Geographical Union & the Institute of British Geographers

6/85-6/87 **Chair** Assn of American Geographers Specialty Group, Geographic Perspectives on Women

6/85-88 **Member** National Council on Geographic Education Standing Committee, Women in Geographic Education

12/83-12/94 **Consulting editor** *Journal of Environmental Education*

## OTHER PRESENTATIONS

**Session chair** Weather & Society Integrated Studies session Assn of American Geographers meeting Chicago, IL April 24, 2015

**Invited presenter** Town Hall Moving forward together & Advice for students student conference American Meteorological Society Austin, TX January 6,7, 2013

**Session chair** Listening to Emergency Managers: Lessons from Tornado & Snowstorm Warning Events Assn of American Geographers meeting New York, NY February 28, 2012

**Invited presenter** Learning from Gilbert White - Commemorating his 100th Birthday, Assn of American Geographers meeting Seattle, WA April 15, 2011

**Invited presenter** The Report from the Warning Project – National Hydrologic Warning Council Savannah, GA June 12, 2007

**Presenter** Weather & Society Integrated Studies: New Culture Change Initiative – Assn of American Geographers meeting San Francisco, CA April 17, 2007

**Invited speaker** Lessons from WAS\*IS Weather & Society \* Integrated Studies & Other Things Curiosity Unlimited Colorado Springs, CO November 10, 2006

**Invited speaker** To Be Mentored by Gilbert White & Findings From the Warning Project - Southwest Assn of American Geographers Meeting Norman, OK October 28, 2006

**Three invited talks** Risky Business: Lessons from Flash Flood Research in Austin Hill Country conference on Urbanization & the Flash Flood Threat San Antonio, New Braunfels & Austin, TX April 7, 8, 2006

**Invited presenter** Fulbright experiences in Trieste, Italy & New results of short-fuse weather warning surveys in Austin, TX & Denver, CO Session organizer & chair, Assn of American Geographers Chicago, IL March 8, 2006

**Invited banquet speaker & Invited presenter** Changing from what WAS to what IS– Big Questions for Meteorologists & Social Scientists Oklahoma Emergency Managers Assn & the Central Oklahoma Chapter of the American Meteorological Society & National Weather Assn & the National Severe Storms Laboratory on The Warning Project, Norman, OK March 2,3, 2006 (w D Schultz & L Barnes)

**Invited panelist** American Meteorological Society session on Severe Convective Storms February 1, 2006 Risky Business: Some Lessons & Questions for Research & Practice, The International Symposium on Urban Disaster Risk Reduction & Regeneration Planning: Integrating Practice Policy & Theory California Polytechnic U San Luis Obispo, CA November 4, 2005

**Presenter** Improving Short-fuse Warnings for Flash Floods: a Denver Case Study, Assn of American Geographers Denver, CO April 2005

**Invited presenter** National Research Council committee meeting on Uncertainty National Academy of Science Boulder November 5, 2005

**Invited presenter** Social Science Lessons: What We Have Learned from Recent Floods & Warnings - Advanced Warnings Operations Course Norman, OK August 5, 2004

**Presenter** Lessons Learned from Slovenia – US Collaborative Study on Landslides - Applied Geography Conference Colorado Springs, CO November 4, 2003

**Invited presenter** Lessons from Social Science for Meteorologists” Fort Worth, TX National Weather Service Office October 24, 2003

**Invited presenter** Better Warnings for Short Fuse Weather Events at the National Hydrologic Warning Council Meeting Dallas, TX October 2003

**Invited presenter** Perspectives of a Hazards Geographer Geography Department U of Padua, Italy May 2003

**Invited presenter** Lessons for Meteorologists Istituto di Scienze dell'Atmosfera e del Clima, ISAC-CNR Bologna, Italy March 2003

**Invited presenter** Risk Perception Research for Hydrologic Risk Analysis Civil Engineering Program U of Florence, Italy April 2003

**Invited presenter** Social Science & Flood Warnings Mesoscale Alpine Programme meeting Bad Tolz Germany October 2002

**Invited presenter** Social Science & Flood Warnings National Weather Assn & American Meteorological Society High Plains Conference Dodge City, KS October 2002

**Invited presenter** Flash Flood Mitigation, Recommendations for Research & Applications, U of Ljubljana, Slovenia June 2002

**Invited presenter** Social Science of Floods presented <http://meted.ucar.edu/qpf/socperfe/index.htm> available as webcast from COMET

**Presenter** Getting Tenure at a Smaller U - Assn of American Geographers meeting, New York, NY February 2001

**Invited presenter** Social Aspects of Flash Flood Mitigation - National Weather Service National Flash Flood Conference Atlanta, GA May 2000

**Presenter** Flash Flood Research Agenda - Following up on the NATO Advanced Study Institute Findings - European Geophysical Society Meeting Nice, France April 2000 (w B Montz)

**Presenter** Problems & Prospects for GIS in Hazard Mitigation - Assn of American Geographers meeting Pittsburgh April 2000 (w M Laituri)

**Invited keynote presenter** for American Meteorological Society annual meeting Social Science & Warning Decision-making, Albuquerque, NM January 2000

**Presenter** Learning from Flood Detection Systems - Assn of State Floodplain Managers meeting Portland, OR May 1999

**Presenter** Alternative Uses of Real-time Data presented at ALERT users group meeting San Diego, CA May 1999

**Presenter** Comments on the Hazard Geography Specialty Group chapter for the 2000 *Geography in America*, Assn of American Geographers meeting Honolulu March 1999

**Invited presenter** Bureau of Reclamation, Denver, CO The Warning Process & Alternative Uses of Real-Time Data in Resource Management February 1999

**Invited presenter** Cooperative Program for Operational Meteorology, Education & Training, hydrometeorology class, Boulder, CO The Social Science of Warning Systems February 7, June 30, October 1999

**Presenter** Systems for Volcano Hazard - international conference on Volcano Hazard Mitigation, U of Colima, Jalisco, Mexico January 1998

**Invited Presenter** What We Know About Flood Warning Communication - National Hydrologic Warning Council Meeting, St Louis, MO October 1997

**Presenter** Flood Hazard Mitigation & the Internet - Applied Geography conference, Kansas City, MO October 1996

**Keynote address & wrap up speaker** What We Have Learned Since the Big Thompson Flood: Twenty Years Later - Symposium What We Have Learned Since the Big Thompson Flood, Fort Collins, CO July 1996

**Presenter** Internet & Emergency Management - Assn of American Geographers meeting, Charlotte, NC & Charleston SC April 1995

**Presenter** Recommendations for Exploration of the Connections Between Mitigation & Litigation - Assn of American Geographers meeting Chicago, IL March 1995 (w D Pollack)

**Presenter** The Uses of Cyberspace Following the Northridge Earthquake - Assn of American Geographers meeting Chicago, IL March 1995

**Presenter** Forecasting & Foreseeability: The Intersection of Geography & Law - Assn of American Geographers meeting San Francisco, CA April 1994

**Presenter** Living with Disasters: A Cultural Context for Studying the Mitigation Efforts in the 1993 Midwestern Floods - Assn of American Geographers meeting San Francisco, CA April 1994

**Presenter** Contemporary Travel Writers Confront the Amazon: They Saw What They Came to See - Assn of American Geographers meeting, 1993 & at Society for the Interdisciplinary Study of Social Imagery meeting Colorado Springs, CO

**Invited Presenter** Warnings & Warning Response - NATO Advanced Studies Institute Coping with Floods, Erice, Italy November 1992 (w D Mileti)

**Presenter** Alternative Paths Through the Maze-Surviving your Dignity Intact - Assn of American Geographers meeting 1992 San Diego, CA

**Invited presenter** Flash Flood Hazard Mitigation in the US at World Federation of Engineers Congress on Natural Hazard Mitigation in New Delhi, India January 1992

**Presenter** Feminism & Flood Control - Assn of American Geographers meeting Miami April 1991

**Invited presenter** What We Know about Flash Flood Warning Systems - Southwestern Assn of ALERT Users Denver, CO October 1990

**Invited presenter** A Summary of the State of the Art in Flash Flood Warning Systems in the United States - International Workshop on Prediction & Perception of Natural Hazards Perugia, Italy October 1990

**Presenter** Flash Flood Mitigation Success Stories - Assn of State Floodplain Managers Asheville, NC June 1990

**Invited presenter** Flash Flood Mitigation: Where We Stand - Interagency Task Force on Warnings & Response in Washington, DC February 1990

**Invited presenter** Natural Hazards Education in Geography - Colorado Geographic Alliance meeting, Colorado Springs, CO March 1990

**Invited presenter** Toward a Comprehensive Flash Flood Assessment in the United States - Southwest ALERT Users Group Meeting Tulsa, OK November 1989

**Presenter** The Flash Flood Project: Toward a Definition - Assn of American Geographers meeting Baltimore, MD March 1989

**Presenter** Flash Flood Hazard Mitigation: Toward a Comprehensive Assessment - Environmental Perception Session of the International Geographical Union Perth, Australia August 1988

**Presenter** Not All Floods are Created Equal: Toward a Comprehensive Assessment of Flash Floods in the United States - Assn of State Floodplain Managers Nashville, TN May 1988

**Presenter** Critiquing Glen Canyon Environmental Studies - Assn of American Geographers meeting, Phoenix, AZ, April 1988 & at Western Social Science Assn meeting Denver, CO April 1988

**Presenter** The Terrorist Threat: Myth & Reality - Assn of American Geographers meeting Phoenix, AZ April 1988 (w M Eichen)

**Presenter** Women's Role in Changing the Face of the Earth: A Report from the Geographic Perspectives on Women Specialty Group - Assn of American Geographers meeting Phoenix, AZ April 1988

**Presenter** Recent Trends in Natural Hazards Mitigation session organized for the Western Social Science Assn Denver, CO April 1988

**Invited presenter** Assessing Program Effectiveness: A 1987 Report on Warning Response & the Adoption of Nonstructural Flood Mitigation Measures - Risk Communication & Response Workshop, Sponsored by the Flood Hazard Research Centre London, England October 1987

**Presenter** Flash Flood Warning Systems as a Mixed Blessing for Mitigation - Applied Geography Conference Knoxville, TN October 1987

**Presenter** Changes in Land Use in Drake, CO, Ten Years after the Big Thompson Flood - Assn of American Geographers meeting Portland, OR April 1987 (w C Huber)

**Presenter** What We Have Learned Since the Big Thompson Flood - Applied Geography Conference West Point, NY October 1986

**Presenter** Post Disaster Mitigation Planning: Learning From the Big Thompson Experience - Symposium Housing & Urban Development After Flood Disasters: Mitigating Future Losses sponsored by American Bar Assn Miami, FL October 1985

**Presenter** Manitou Springs Flood Hazard Mitigation Plan - Emergency 85 Washington, DC May 1985

**Presenter** Housewife as Hero, The Letters of Lila Thomas - Colorado Women's Studies Assn Colorado Springs, CO May 1985

**Presenter** Urban Floodplain Occupancy Changes in the Past 26 Years, 17 Case Studies Revisited Assn of American Geographers meeting April 1985 (w B Montz)

**Presenter** Mobile Homes in Hazardous Areas, The Elderly in Colorado Springs Applied Geography Conference Tallahassee, FL November 1984

**Invited Presenter** Warnings for Floods with Short Lead Times - conference Lessons for the United Kingdom sponsored by the Flood Hazard Research Center, Middlesex Polytechnic Institute, London, England September 1984

**Presenter** Mobile Homes in Hazardous Areas: Comparing Flood Plain Occupancy in Colorado Springs & Unincorporated El Paso County CO - Assn of American Geographers meeting, Washington, DC April 1984

**Presenter** Lessons from Applied Field Courses National Council on Geographic Education meeting Ocho Rios, Jamaica October 1983

**Presenter** A Comparison of Recent Ice Jams & Adjustment Strategies in Two Northern Vermont Communities Applied Geography Conference, Toronto, Canada October 1983 (w M Ottum)

**Presenter** Ice Jams & Spring Runoff Flooding in Vermont - Assn of American Geographers meeting Denver, CO April 1983

Opposition to Nonconventional Energy Production - Assn of American Geographers meeting Denver, CO April 1983 (w M Eichen)

**Invited presenter** The Big Thompson Flood of 1976: How People Lived & How They Died U of Massachusetts October 1982

A Comparison of Expenditures for Structural & Nonstructural Flood Control Measures - Assn of American Geographers meeting San Antonio, TX April 1982

**Invited presenter** Assessment of Research on Individual Behavioral Response to Warnings of Extreme Events - International Symposium on Real-Time Operation of Hydrosystems Waterloo, Ontario, Canada June 1981

## OTHER PROFESSIONAL EXPERIENCE

- 05/07 **Invited presenter** Weather & Society \* Integrated Studies - Culture Change for meteorologists  
Alumni Group, U of Colorado at Colorado Springs
- 03/01 **Invited proposal reviewer** Center for Disaster Management & Humanitarian Assistance  
Tampa FL
- 1986-present **Proposal reviewer** for National Science Foundation
- 1984-present **Manuscript Reviewer** for *Polar Research, Weather, Climate & Society, Growth & Change, Environmental Management, Annals of the Assn of American Geographers, The Professional Geographer, Environmental Hazards, Climatic Change, Weather & Forecasting & the Bulletin of the American Meteorological Society*
- 9/85-6/86 **Member** Zoning Board & Planning Commission, Bakersfield, VT
- 11/80, 3/81 **Invited participant**, National Science Foundation short course at U of Utah; Risk Benefit Analysis
- 4/78-6/78 Disaster Assistance Reservist Training, April 10-13; Service, June 1-13 following Wyoming floods

## OTHER PUBLICATIONS

Innovative Options for Reducing Ice Jam Damages in *Proceedings of the Assn of State Floodplain Managers Meeting* Special Publication Natural Hazards Research & Applications Information Center Boulder, CO 1992

Not All Floods Are Created Equal: Toward a Comprehensive Assessment of Flash Floods in the United States *Proceedings of the Conference of the Assn of State Floodplain Managers*, Special Publication #19, Natural Hazards Research & Applications Information Center Boulder, CO 1988 137-143 (w C Huber)

Flood Hazard in the United States: Toward a Definition *Proceedings of the 1988 Conference on Arid West Issues* 1989 (w C Huber)

*River & Dam Management: A Review of the Bureau of Reclamation's Glen Canyon Environmental Studies* National Academy Press, Washington, DC 1987 (w others as part of National Academy of Sciences National Research Council Water Science & Technology Board Committee)

Flood Hazard Mitigation-Strides Since the 1970's & Challenges for the 1990's *The Proceedings of the Rapid City Flash Flood Mitigation Symposium* 1987 173-179

The Levee Effect & Flash Flood Warning Systems *Realistic Approaches to Better Floodplain Management, Proceedings of the Eleventh Annual Conference of the Assn of State Floodplain Managers*, Natural Hazards Research & Applications Information Center 1987 195-200 (w J Handmer & HJ Owen)

Post Disaster Mitigation Planning: Learning From the Big Thompson Experience, *The Proceedings of the Symposium Housing & Urban Development After Flood Disasters: Mitigating Future Losses* 1985 American Bar Assn

Flood Hazard Mitigation for Small Western Towns Which Depend on Tourism: Answers to Frequently Raised Questions in Manitou Springs, CO, *Improving the Effectiveness of Floodplain Management in Arid & Semi-Arid Regions, Proceedings of a Western State High Risk Flood Areas Symposium*, Assn of State Floodplain Managers April 1987

The Role of Geographic Analysis in Public Policy *Transition* 10(1) Spring 1980 113-115

## BOOK REVIEWS

- of Mathur, A & D da Cunha *Mississippi Floods: Designing a Shifting Landscape* in *Ethics, Place & Environment* 5 3 2002 293-294
- of Drabek, T *Disaster Evacuation Behavior Tourists & Other Transients* in *Spectra* 33(12) 133 of Bryant, E *Natural Hazards in Professional Geographer* 1993
- of Godschalk, D, D Brower, & T Beatley *Catastrophic Coastal Storms* in *Natural Hazards* 3 1990 205-206
- of Smith, D & J Handmer, editors *Flood Warning Systems in Australia* in *Natural Hazards* 1989



- of Monk, J & V Norwood, editors *The Desert is No Lady, Southwestern Landscapes in Women's Writing & Art* in *Professional Geographer* August 1988 361
- of Raitz, K, R Ulack, & T Leinbach *Appalachia a Regional Geography* in *Growth & Change* April 1986 71-72
- of Callies, D *Regulating Paradise: Land Use Controls in Hawaii* in *Journal of the American Planning Assn* Fall 1985
- of Sax, J *Mountains Without Handrails* in *Annals of Tourism Research* II 1984 529-531
- of Kusler, J *Regulation of Flood Hazard Areas to Reduce Flood Losses* in *The Environmental Professional* 5 1 1983
- of Frazier, K *The Violent Face of Nature* in *EOS Transactions of the American Geophysical Union* December 2, 1980

**TEACHING CURRICULUM** (\* indicates upper division/graduate course)

Analysis of Environmental Systems\* Disasters & Society\*  
 Land Use Planning Environmental Perception  
 Environmental Planning\* Future World Perspectives\*  
 Humans & Environments Images of Amazonia\*  
 Introduction to Human Geography Tourism, Recreation & the Environment\*  
 Women's Place, Women's Space: Women's Role in Changing the Face of the Earth\*