

## CURRICULUM VITAE

Lisa L. Ely

### Address

Department of Geological Sciences, Central Washington University, Ellensburg, WA 98926.  
Tel. (509) 963-2177; FAX (509) 963-2821; e-mail: ely@geology.cwu.edu

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### Education

- Ph.D. Degree** University of Arizona, 1992. Geosciences, emphasis in Fluvial Geomorphology  
Minor: Ecology and Evolutionary Biology.
- M.S. Degree** University of Arizona, 1985. Geosciences.
- B.S. Degree** Principia College, Elsah, Illinois, 1982. Geology and Biology.
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### Professional Experience

- 2011-12; 2003-07; 1998-99 Chair, Department of Geological Sciences, Central Washington University
- 2003-present Professor, Department of Geological Sciences, Central Washington University
- 2009 Visiting Research Professor, Universidad de Valparaiso, Chile
- 2002 Visiting Research Scientist, Laboratory of Tree-Ring Research, University of Arizona
- 1998-2003 Associate Professor, Dept. of Geological Sciences, Central Washington University
- 1996 Acting Chair (winter quarter), Dept. Geology, Central Washington University
- 1994-98 Assistant Professor, Department of Geology, Central Washington University
- 1992-94 National Science Foundation Postdoctoral Research Fellow in Earth Sciences,  
Earth System Science Center, Pennsylvania State University.
- 1988-92 Geomorphology consultant for Archaeological Consulting Services, Tempe AZ.
- 1985-86 Hydrologist II, Cella Barr Associates Engineering, Tucson, AZ
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### External Research Grants and Projects

- 2012-15 National Science Foundation, "Collaborative Research: Subduction Zone Segmentation over Multiple Seismic Cycles, South-Central Chile", **Lead PI: L. Ely**, collaborating PI B. Horton (Rutgers), **Total = \$361,025, CWU portion = \$198,109.**
- 2010 National Science Foundation, "RAPID: Tsunami deposits and coastal uplift near Concepcion, Chile before and after the major earthquake of February 27, 2010," **PI: L. Ely**, co-PI R. Wesson (USGS), **\$26,200.**
- 2009 Collaborative Research Major Research Instrumentation: Acquisition of Terrestrial Laser Scanning System for Earth Science Research.; CWU PIs=C. Rubin, co-PI's **L. Ely** and B. Pratt-Sitaula; collaborating PI's M. Miller and 2 co-PIs at UNAVCO; **Total = \$359,409, CWU = \$213,656.**
- 2008-09 National Geographic Society "Darwin and the Great 1835 Concepción Tsunami: Relying on Geology and History to Avoid Future Catastrophes," **PI: L. Ely, \$20,000.**
- 2007-08 National Science Foundation "SGER: Salvaging Clues to Tsunami Recurrence in Southern India," **PI: L. Ely, \$19,835.**
- 2007-12 National Science Foundation Science Talent Expansion Program (STEP), "Recruiting and Retaining the Next Generation of STEM Professionals, College of the Sciences, Central Washington University," PI: W. Bohrson; **co-PI's Ely** and 4 others; **\$999,711**
- 2006-09 National Science Foundation "RUI and COLLABORATIVE RESEARCH: Impacts of

- Extrafluvial Events on River Valley Evolution,” **Lead PI: L. Ely**; collaborating PI’s K. House (U. Nevada) and E. Safran (Lewis and Clark College), **Total = \$350,000, CWU = \$154, 665.**
- 2006 US Aid for International Development (USAID), “Indian Ocean Tsunami Hazards: Paleotsunami Evidence in Southeastern India”, PI: B. Atwater; **L. Ely: Research Scientist.**
- 2005 National Geographic Research Grant “Geoarchaeology field studies in Michoacan, Mexico,” T. Gabany-Guerrero, PI; **L. Ely: Research Scientist.**
- 2002-05 U.S. Geological Survey Water Resources Grant “Hydraulics of cluster bedforms in gravel-bed streams,” **PI: L. Ely**, collaborating PI: A. Papanicolaou (Washington State U.) , **Total = \$110,000; CWU = \$53,000.**
- 2003-05 National Science Foundation Science Talent Expansion Program “In Answer to a National Challenge: A Pilot Program to Increase Participation in Science, Technology and Mathematics (STEM) Fields, College of the Sciences, Central Washington University.” PI: W. Bohrson, **co-PI’s L. Ely** and 8 other CWU faculty, **\$249,987.**
- 2001 Foundation for the Advancement of Mesoamerican Studies, Inc. “Geomorphology and paleoenvironment of ancient cliff painting archaeological site, Michoacan, Mexico” PI=T. Gabany-Guerreo, **L. Ely: Research Scientist.**
- 2000-01 National Science Foundation International Supplement Grant, “Application of Paleofloods to Flood Hazard Assessment in Hungary,” **PI: L. Ely \$7,550.**
- 1998-2002 National Science Foundation Hydrologic Sciences, “Effects of regional climatology on paleofloods in western U.S.” **CWU PI=L. Ely**, collaborating PI=P.K. House, **Total = \$287,000; CWU portion=\$121,000.**
- 1997-99 U.S. Geological Survey Water Resources Research Grant “Using paleofloods and climate records for flood frequency assessment,” **Lead PI: L. Ely**, collaborating PI: P.K. House (U Nevada), **Total = \$129,180; CWU portion = \$64,378.**
- 1996 NSF Instructional Laboratory Instrumentation Grant “X-Ray Diffraction in Geology at CWU,” PI: J. Hinthorne, **co-PI’s: L. Ely, C. Rubin**), **\$63,000 with equivalent institutional matching funds, Total = \$120,000.**
- 1995-98 National Science Foundation Global Change Program “Holocene lacustrine records of variations in the Indian Monsoon,” **Lead PI: L. Ely**, collaborating PI: V.R. Baker (U Arizona), **Total = \$300,000; CWU portion=\$144,000.**
- 1992-94 National Science Foundation Postdoctoral Research Fellowship in Earth Sciences, Pennsylvania State University, “Modern hydroclimatology of extreme floods in monsoon regions,” **\$70,000.**
- 1992-94 National Geographic Society Research Grant, “Paleolakes in Baja California, Mexico,” PI: Y. Enzel, **co-PI: L. Ely.**
- 1988 Tinker Foundation Grant for Field Research in Latin America
- 1988 Association for Women in Science Predoctoral Research Award
- 1986-88 ARCS Foundation Scholarship, **\$10,000.**

### Professional Awards

- 2009 Elected Fellow of the Geological Society of America

### Internal Central Washington University Grants

- 2015, 2008, 2001 CWU Faculty Professional Sabbatical Leave, 1 academic year each.
- 2011 CWU College of the Sciences Faculty Summer Research Grant, “Geological Evidence of Predecessors to the 2010 Earthquake and Tsunami in South-Central Chile,” \$3000.
- 2008 CWU Equipment Grant, “Laser Particle-Size analyzer for Environmental and Chemical

- Applications”, **Lead PI: L.Ely**, with 6 co-PI’s. \$53,298.
- 2008 CWU Faculty Research Appointment (1 term salary & benefits): “Sediment Deposits from the 2004 Indian Ocean Tsunami and Pre-historic Tsunamis in Southeastern India.”
- 2006 CWU Spheres of Distinction “CWU-STEP: A Science Talent Expansion Program for Freshman and Sophomore Students,” **Lead PI’s: M. Braunstein and L. Ely** with 7 co-PIs; \$53,000 in CWU annual base budget.
- 2005 CWU International Studies Faculty Travel Grant to Michoacan, Mexico, \$700.
- 2004 CWU Essential Instructional/Research Equipment Grant Program--Mapping active geologic processes,” **PI’s: L. Ely** and C. Rubin, \$4,300.
- 2002 CWU Essential Instructional/Research Equipment Grant Program “Measuring and monitoring riverbank erosion: Developing and integrating new research techniques into the Geoscience curriculum,” **PI’s: L. Ely** and G. Aggett, \$9,955.
- 1998 CWU Faculty Research Appointment Grant (1 term salary & benefits), “Paleofloods on the Cauvery River, Southern India”.
- 1995 CWU Faculty International Travel Grant to Berlin, Germany, \$500
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### Teaching Awards and Activities

- 2003-present Faculty advisory committee and instructor, Science Talent Expansion Prog. (STEP)
- 2009 Faculty mentor and field research advisor, NSF G-K12 International Suppl. Project, Nepal
- 2008 Participant, NSF Cutting Edge Workshop “Teaching Geomorphology,” Colo. State Univ.
- 2007-12 Faculty Mentor, National Science Foundation grant to CWU “Yakima Watershed Activities to Enhance Research in Schools (WATERS)”. Mentored four graduate students in year-long science research and teaching collaborations with local K-12 teachers.
- 2006-2008 Faculty mentor, CWU Science Honors Program
- 2004 Selected for Project Kaleidoscope Faculty for the 21<sup>st</sup> Century (national organization to promote science education)
- 2003 TIAA-CREF/CWU SOURCE Distinguished Faculty Award
- 1996 CWU Parents' Association Award for Excellence in Teaching
- 1995-present Regular member of the Graduate Faculty, Central Washington University

### Student Research Advisor

- 1996-present Committee Chair and Advisor, >20 Graduate Student Thesis Projects
- 1996-present Faculty Supervisor, >40 Undergraduate Student Independent Research Projects
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### Professional Service Activities

- 2013-15 UNAVCO Education and Community Engagement Advisory Committee
- 2012 Field Conference Organizer, Friends of the Pleistocene Joint Rocky Mountain and Pacific Northwest Cells, Owyhee River, Oregon, August 23-26, 2012.
- 2011 Technical Program co-Chair, Geological Society of American Joint Rocky Mtn/Cordilleran Section Meeting, May 18-20, 2011.
- 2010-11; 2014 Proposal Review Panel, National Science Foundation Geomorphology and Land-Use Dynamics (GLD) Program; GLD Postdoctoral Fellowships.
- 2008 Invited Presenter/Workshop Leader: National Research Council/National Academy of Sciences Workshop, “Research and Applications Needs in Flood Hydrology Science”.
- 2007-08 Chair, Quaternary Geology and Geomorphology Division, Geological Society of America
- Oct, 2007 External Program Review Team: Whitman College Department of Geology.

2003-08; 2009-14 Selection Panel: Washington State Water Resources Center Competitive Grants  
2004-present Association of Women Geoscientists Distinguished Lecturer (~1 per year).  
July, 2005 National Science Foundation Site Visit Review Panel for the National Center for Earth  
Surface Dynamics (NCED) NSF Science and Technology Center, St. Paul, Minnesota.  
2003 Geological Society of America Pardee and Topical Session Committee  
1998-2002 Technical Program Organizing Committee representative for Paleoclimatology and  
Paleoceanography, Geological Society of America Annual Meeting  
1996-2000 American Quaternary Association Board of Directors  
1995-98; 2005-07 Management Board, Quaternary Geology and Geomorphology Division, GSA  
1996-2011 9 Geological Society of America Award Panels; 1 AMQUA Award panel  
1994 NSF Proposal Review panel for Postdoctoral Research Fellowships in Earth Sciences.

**Member:** American Geophysical Union, American Quaternary Association, Geological Society of  
America, Sigma Xi Scientific Research Society

**Professional Certifications:**

2002-pres. State of Washington Certified Professional Geologist

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**Community Service:**

2009, 2015 Public town hall presentations in Talcahuano, Chile [in Spanish] on tsunami hazards.  
2004-2013 Geology field trip leader: Kittitas County Environmental Education Network, Kittitas  
County Museum “Explore Kittitas County”, Thorp Mill Annual Auction.  
2012 Science Activity Leader, Harrah Elementary School Science Night (Yakama Nation)  
2001-2017 Thorp Mill Town Historical Society, Board of Directors and Secretary  
2001-2008 Washington State Boundary Review Board for Kittitas County  
1999-present Geology Workshop at annual “Expanding Your Horizons” for 5th-8th grade girls  
2004 Management Plan Advisory Committee, Yakima Subbasin Planning Board  
2002-2004 Yakima County Critical Areas Scientific Advisory Board

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**University and College Committees:**

2014-15 Graduate Council and Department of Geological Sciences Graduate Program Coordinator  
2012-13; 1997-2003 Faculty Research and Development Committee  
2012 College of the Sciences Task Force for future interdisciplinary programs  
2006-08, 2012-13 Science Phase II Building Planning Committee  
2006-08 Environmental Science/Studies Program Development Committee  
2004-07 College of the Sciences Instrument Technician Advisory Committee  
2003-present Science Talent Expansion Program (STEP) Committee  
2004-05 Science Honors Program Student Selection Committee  
2003-04 College of the Sciences Environmental Research and Education Program Committee  
2002-05 University Campus Site and Development Master Plan Committee  
2002-03 College of the Sciences Committee on Reappointment, Tenure and Promotion Policy  
2001-pres. CWU Personnel Committees, Geology (2001-pres); Physics (2003-06); Chemistry (2008)  
1999-02 University Graduate Council  
1997-03 Faculty Senate Representative from Geological Sciences  
1994-2004, 2008 McNair Scholars Program Advisory Board and Student Selection Committee  
1995-2012 7 Administrative Search Committees; 8 Faculty Search Committees