

David Donald Bowman

College of Science, Technology, Engineering, & Mathematics
Eastern Washington University
138 Communications Building
Cheney, WA 99004
dbowman@ewu.edu
+1 (509) 359-2532

906 W. Westera Ct
Spokane, WA 99224
dr.david.d.bowman@gmail.com
+1 (310) 429-2482

Current Position

Dean, College of Science, Technology, Engineering & Mathematics
Professor of Geology
Eastern Washington University

Education

PhD Geology 1999 - University of Southern California
Advisor: Charles G. Sammis
Thesis: "Intermittent Criticality and the Physics of Distributed Regional Seismicity"
MS Geology 1996 - University of Southern California
Advisor: Charles G. Sammis
Thesis: "A Tectonic Model for the Formation of the Gridded Plains on Guinevere Planitia, Venus: Implications for the Elastic Thickness of the Lithosphere"
BS Geology 1993 - University of Southern California

Summary of Administrative Positions

Dean, College of Science, Technology, Engineering, & Mathematics, Eastern Washington Univ, 2016 – present
Interim Dean, College of Natural Sciences and Mathematics, California State Univ, Fullerton, 2014 – 2016
Chair, Dept of Geological Sciences, California State University, Fullerton, 2007 – 2013

Summary of Academic Positions

Professor, Dept of Geology, Eastern Washington University, 2016 – present
Professor, Dept of Geological Sciences, California State Univ., Fullerton, 2010 – 2016
Associate Professor, Dept of Geological Sciences, California State Univ., Fullerton, 2005 – 2010
Assistant Professor, Dept of Geological Sciences, California State Univ., Fullerton, 2001 – 2005
Physicien Adjoint, Laboratoire Tectonique, Institut de Physique du Globe de Paris. 2001 – 2016
Chateaubriand Postdoctoral Fellow, Lab Tectonique, Institut de Physique du Globe de Paris 2000 – 2001

Summary of Professional and Community Leadership

Fellow, UC Berkeley Executive Leadership Academy, 2020
Member, Washington MESA Board of Directors, 2016-present; Governance Chair 2018-present
Member, Mobius Spokane Board of Directors, 2017-present; Secretary 2022-present.
Member, Spokane STEM Network Executive Committee, 2016-2020; Co-Chair 2019-20.
Board of Directors, Southern California Earthquake Center, 2007-2011.

Administrative Experience

Dean, College of Science, Technology, Engineering & Mathematics Eastern Washington University (EWU), 2016-present

EWU is a mid-sized public regional comprehensive university (Carnegie classification: Master's Colleges & Universities: Larger Programs). 35% of Eastern students are first-generation in college, 29% identify as BIPOC, 75% receive federal financial aid, 91% are from the state of Washington and 56% come from the eastern half of the state. EWU offer over 100 undergraduate majors and 60 graduate programs. 26% of undergraduates are declared majors in a STEM field. The college of STEM includes programs in Biology, Chemistry and Biochemistry, Computer Science, Data Sciences, Environmental Science, Geosciences, Mathematics, Electrical and Computer Engineering, Mechanical Engineering, Applied Technology, and Visual Communication Design.

Duties include: Oversee all personnel, financial, curricular, and administrative activities for the College of Science, Technology, Engineering & Mathematics. Oversee hiring, retention, tenure, promotion, and discipline for the College. Oversee College outreach and fundraising activities, including creation of an integrated college development plan. Oversee Dean's Industry Advisory Board. As a member of the university's senior leadership team, sit on Academic Affairs Council and President's Executive Council. Oversee facilities including construction of a new lab science building, design and construction of a new engineering building, redesign and renovation of the existing science building, and pre-design for renovation of an existing engineering building.

Achievements include:

- Closed \$4 million of a \$5 million structural deficit in the college budget, with plans to close the remaining gap by the end of AY22.
- Led the development of successful legislative funding request that provided a \$1.6 million baseline budget augmentation which funded the development of a new computer engineering degree.
- Oversaw development of a \$2.6 million legislative request for the 2021-22 state legislative session to expand our cybersecurity request. The legislative session is still in session, however the governor has included our request in his initial budget.
- Secured \$67 million in state funding for a new Interdisciplinary Science Center that was completed in Winter 2021.
- Worked with architects, our campus facilities team, and our university legislative liaison to draft a \$100 million capitol request from the legislature to completely renovate our existing 50-year old science building. Funding for this renovation was secured from the legislature this past summer, and the renovation will break ground in January 2022.
- Was a key part of EWU's team for the new "Catalyst Building" project, a public-private partnership to build a new zero-energy mixed use academic and industry research building in downtown Spokane. Worked with architects and our private partners to design the teaching, office, and laboratory spaces, and helped secure funding for the project. The new building was completed in Winter 2020, and houses the Electrical Engineering, Computer Science, Computer Engineering, and Design programs from STEM (<https://www.ewu.edu/give/funds/catalyst/>). We have capitalized on the community's excitement and support for this initiative to include programs ranging from business to health science to creative writing in the project.
- Oversaw multiple ABET accreditations for Mechanical Engineering, Mechanical Engineering Technology, Electrical Engineering, and Computer Science, including perfect "no findings" reviews in the current (2021) reporting cycle.

- Oversaw EWU's designation as a National Security Agency Cybersecurity Center of Academic Excellence in Cyberdefense (NSA CAE-CD).
- Combined Geography program from College of Social Science with Geology Department in STEM to create new Geosciences department.
- Reorganized college from 5 unequally-sized and unevenly-resourced departments (Biology; Chemistry, Biochemistry & Physics; Computer Science; Engineering & Design; Geology; Mathematics) to 6 similar-sized and resourced departments (Biology; Chemistry, Biochemistry & Physics; Computer Science & Electrical Engineering; Design; Geosciences; Mathematics; Mechanical Engineering & Technology).
- Oversaw the development of several new degree programs, including BS Data Science, BS Electrical and Computer Engineering; BS & BA Geosciences; MS Applied Math; BS Cybersecurity (in progress).
- Oversaw the creation of new international research and study abroad opportunities in the college, including partnership agreements with the North University of China and a 2+2 BS program in computer science with Beijing Institute for Graphic Communications.
- Created a faculty "Dean's Fellow for Diversity, Equity, and Inclusion" to coordinate inclusion-focused student activities, support initiatives to develop culturally responsive pedagogy, and serve as a college liaison to university-level initiatives.
- Supported creation and growth of "Women in Science at Eastern" and "100 Women+ Strong" student organizations to support gender inclusivity in STEM.
- Started book clubs on anti-racism and sponsored college seminars featuring nationally recognized leaders on diversity and inclusion in STEM.
- Supported introduction of Education Advisory Board (EAB) analytical tools, and normalized use of analytical tools to support continuous improvement in our academic offerings. For example, our analytics highlighted a sequence of chemistry courses that create a significant success bottleneck for students in majors ranging from health sciences to mechanical engineering.
- Used data analytics (described above) to allocate new faculty positions to improve lab instruction in bottleneck chemistry support courses.
- Launched initiative to create "just-in-time" delivery of supplemental content (e.g. algebra and calculus problem solving) via co-requisite recitation sections that support student success in their lecture courses.
- Collaborated with department chairs to create college-level learning outcomes and a college-level committee structure to institutionalize student learning assessment.
- Modernized the governance structure in the college, including the hire of an entirely new team in the dean's office, with national searches for an Associate Dean, College Finance Officer, Student Activities Coordinator, and Academic Advising and Student Success Coordinator. I also built close working relationships with the Divisions of Student Affairs and University Advancement that allowed me to add an Internship Coordinator and Director of Philanthropy to my team.
- Completely revised college process for assigning faculty workload.
- Worked with department chairs to develop course rotations and faculty hiring plans that are informed by past enrollment data. This has helped highlight numerous areas where departments can better manage their faculty/staff resources.

- Represented EWU and the College of STEM in external organizations, including leadership roles in the Spokane STEM Network, Washington MESA, the Board of Directors of MOBIUS Spokane (the regional science center), and Greater Spokane Inc. (the primary business development organization for the Spokane region and eastern Washington).
- Created college-level development plan and helped formulate campaign goals for the university's first ever capital campaign, including a \$5 million gift to support the "Catalyst Building" mentioned above.
- Secured philanthropic funding for a new Student Undergraduate Research Fund as well as a STEM Clubs Fund to support development and operations of academic clubs in all the STEM disciplines.
- Facilitated collaboration with the nearby Washington State Crime Lab, including hiring crime lab scientists to teach in our biochemistry and forensic chemistry programs.
- Oversaw revision of the College Policies & Procedures document (which governs retention, tenure, and promotion at EWU) and secured faculty approval for the first time in over 15 years.

Interim Dean, College of Natural Sciences and Mathematics, California State University, Fullerton (CSUF) 2014-2016

CSUF is a large regional comprehensive university offering undergraduate, masters, and doctorate level [Carnegie classification: Master's Colleges & Universities: Larger Programs (formerly R-3)]. CSUF is the largest campus in the California State University system, with over 41,000 students. Over 70% of CSUF students are from historically underrepresented or minoritized groups, including over 46% Hispanic/Latinx and over 20% Asian. 50% of CSUF students are Pell-eligible. The College of Natural Sciences and Mathematics has five departments including Biological Science, Chemistry and Biochemistry, Geological Sciences, Mathematics, and Physics, with approximately 4400 FTE (annualized), over 130 tenured and tenure-track faculty, 140 lecturers, and a total (state-side) budget of approximately \$19 million (including salaries).

Duties included: Oversee all personnel, financial, curricular, and administrative activities for the College of Natural Sciences and Mathematics. Oversee hiring, retention, tenure, promotion, and discipline for the College. Oversee College outreach and fundraising activities, including creation of an integrated college development plan. Oversee Dean's Advisory Council. As a member of the university's senior leadership team, sit on Council of Deans and President's Advisory Board.

Achievements included:

- Oversaw Department of Education Title III HSI-STEM program called "Strengthening Transfer Education & Matriculation in STEM (STEM)²".
- Conceived and oversaw the development and submission of another Title III HSI-STEM program titled "Project RAISE: Regional Alliance In STEM Education," a program designed to increase the opportunities of underserved student populations in the region to prepare for and succeed in STEM majors and industries. Funding for this proposal was awarded to Cal State Fullerton's College of Natural Sciences and Mathematics three months after I began my position at EWU.
- Created an integrated development plan that helped the college raise over \$7.7 million in two years. This far exceeded the \$300,000/year that the college had historically raised philanthropically.
- Secured a \$5 million for the college's first endowed chair, the "Dan Black Chair in Gravitational Wave Physics and Astronomy."
- Used philanthropic funds to improve the student-faculty research capacity of the college. This included a new high-performance computing cluster, a 3D-printing lab with two separate high-

resolution printers, and a new mobile planetarium for the education and outreach efforts the astronomy program.

- Oversaw the creation of new international research and study abroad opportunities in the college, including expanded environmental science and health science research programs in Thailand, faculty exchanges in Uzbekistan, and the development of a joint Biology MS-PhD program in Argentina.
- At the request of the US State Department, represented US Higher Education on diplomatic Joint Commissions on Science and Technology with Argentina, Uzbekistan, and Chile. These Commissions, which included representatives from key US agencies (NSF, NOAA, NASA, DoE, Smithsonian) as well as ministerial, ambassadorial, and academic leaders from the respective countries, were tasked with proposing policies to our respective governments that will promote bilateral scientific and educational collaboration.
- Assumed oversight of the California Desert Studies Consortium (DSC), a consortium of 7 CSU campuses, the US Bureau of Land Management, and the National Park Service. The centerpiece of the consortium is the Desert Studies Center, a 1200-acre field station with full laboratory, food service, and overnight accommodations at Zzyzx in the eastern Mojave. The Desert Studies Center had historically reported to the CSUF Division of Academic Affairs, but was transferred to the College of NSM when I became Dean.
- Restructured management of the Desert Studies Center (above) and oversaw recertification of the Consortium from the CSU Chancellor's Office; renewal of the Center's MOU with the National Park Service and Bureau of Land Management; Creation of a strategic plan for the DSC; balancing the Center's budget, and renovation of the power infrastructure (DSC generates 100% of its own power)
- Oversaw establishment of the John D. Cooper Center for Archaeological and Paleontological Curation, a partnership with Orange County Parks to curate and manage over 6 million paleontological and archaeological artifacts uncovered during construction in Orange County.
- Established donor-supported NSM Undergraduate Research Fund
- Established interdisciplinary Center for Computational and Applied Mathematics, including a high-performance computing cluster.
- Collaborated with the college Inter-Club Council (similar to a college-level student senate) to dramatically expand the annual NSM Research Symposium, including keynote addresses from "science celebrities" including Bill Nye, "the Science Guy", the MythBusters, and Dr. Robert Ballard.
- Co-chaired campus Climate Survey working group.

Chair, CSUF Department of Geological Sciences, 2007-2013

Duties Included: Oversee all personnel, financial, curricular, and administrative activities with the Department of Geological Sciences. Serve as Department liaison to College of Natural Sciences and Mathematics Executive Committee. Oversee Department outreach and fundraising activities.

Achievements Included:

- Develop new BA in Earth Science to complement existing BS in Geology
- Increased declared majors from ~40 students to over 160 Geology or Earth Science majors at the undergraduate and graduate level
- Oversaw revision of Department Personnel Standards (governing document for retention, tenure, and promotion)

- Refurbished core geology teaching labs
- Led the department through mandatory furloughs during the 2009 California budget crisis
- Established campus wide earthquake drills for the “Great Shakeout” statewide earthquake drill
- Established department Research Day to showcase student research
- Established alumni banquet to improve connections with alumni and stimulate philanthropic support of department activities
- Served on steering committee for NSF ADVANCE-IT grant to increase recruitment and retention of women in STEM
- Member of Fundraising and Resource Development working group for the 2013-18 campus Strategic Plan

Vice-chair, CSUF Department of Geological Sciences, 2006-07, 2013

Assist Department Chair in Department administration.

CSUF Philanthropic Foundation (CSFPF) Board of Governors; Faculty Representative, 2010-2014; Vice-Chair for Resource Development, 2012-2013

Represent faculty interests in the administration, solicitation, and stewardship of funds donated to the university; represent the university at CSFPF fundraising and stewardship events; represent faculty in the development and implementation of the strategic fundraising initiatives of the Board. Partner with University Advancement to institutionalize the philanthropic process within the Board and its individual members. Actively participate in planning, executing, and evaluating CSUF’s development efforts. Advise the University on philanthropic opportunities. Work with University to identify, cultivate, solicit, and recruit potential donors to the University. Oversee CSFPF Board’s functions related to assuring fiscal health through fund development, real estate, and planned giving.

Achievements included

- “Made the ask” for multiple five- and six-figure gift requests in partnership with staff from University Advancement.
- Helped develop the CSFPF strategic plan
- Chaired the fundraising committee for the John D. Cooper Center for Archaeology and Paleontology (see above)

General Education Committee, 2008-2012; Chair 2010-11, Vice-Chair 2009-10 and 2011-12 (CSUF)

Committee responsibilities include to review General Education (GE) course proposals and make recommendations for approval or rejection to the Academic Senate; periodically review and recertify existing GE courses; study, review, interpret, and recommend GE programs for approval by the Academic Senate; prepare GE program performance reviews; as well as other duties relating to the oversight of the University GE program.

Achievements included:

- As vice-chair, helped revise the entire university GE curriculum
- As chair, oversaw the development and implementation of a comprehensive GE Assessment Plan. The assessment plan that we created during this process helped to guide CSUF through its subsequent university accreditation visit.

Freshman Programs Advisory Board, 2007-2016 (CSUF)

Advise Director of Freshman Programs on curricular and co-curricular matters relating to CSUF's new student programs.

University Advancement Committee, 2006-08 (CSUF)

Committee responsibilities include formulating, reviewing, and recommending to the Academic Senate policies regarding fundraising; formulating, reviewing, and recommending policies regarding dispersal of unrestricted philanthropic funds; promoting faculty engagement in fundraising efforts; receiving and reviewing fundraising reports; making recommendations on gifts and naming of campus facilities; and acting as an advisory board to the Office of University Advancement.

Graduate Education Committee, 2005-06 (CSUF)

Committee responsibilities include formulating, reviewing, and recommending policies and criteria regarding graduate curricular programs; formulating, reviewing, and recommending policies and criteria regarding graduate courses, postbaccalaureate certificate, and credential programs; reviewing and evaluating new graduate programs and changes to existing graduate curricular programs; reviewing and evaluating graduate course proposals.

Professional and Community Service**Member, Washington MESA Board of Directors, 2016-present; Governance Chair, 2018-present; Executive Committee, 2020-present**

Represent the State of Washington's Higher Education sector in the statewide governing body for MESA (Mathematics, Engineering, Science Achievement). MESA is funded by a combination of state, federal, and private money and is committed to building a pathway to college and careers in science, technology, engineering & mathematics (STEM) for underrepresented and minoritized students. Washington MESA oversees all K-14 MESA programs in the state. I also serve as Chair of the Governance Committee and co-Responsible Administrator for the Spokane K-12 MESA Center.

Member, Mobius Spokane Board of Directors, 2017-present.

Oversee the management and operation of the Mobius Spokane, a science center and children's museum in Spokane, Washington.

Member, Spokane STEM Network Executive Committee, 2016-2020; Co-Chair 2019-20.

Represent EWU in a regional partnership of leaders in K-12 education, community colleges, higher education, government, and industry dedicated to driving innovation and improvements in STEM teaching and learning at a systems level. I am currently serving as co-chair of the committee.

Board of Directors, Southern California Earthquake Center, 2007-2011.

The Southern California Earthquake Center (SCEC) coordinates fundamental research on earthquake processes using Southern California as its principal natural laboratory. The SCEC community includes over 1,000 researchers from over 75 institutions around the world and comprises one of the largest research collaborations in geoscience. The SCEC Board of Directors serves as the primary mechanism for SCEC core and participating institutional representation in the oversight and management of the Center.

Scholarly Activities

Student Theses Undergraduate Theses in **bold**.

Philo, Daniel, Seismic hazard assessment of McCarthy Hall on the California State University, Fullerton Campus: A comparison of UCERF2 and UCERF3, (co-advise with Harmony Colella, CSUF adjunct), May 2014.

Tarnowski, Jennifer, How barriers enable slip-partitioned, multi-fault, dynamic rupture in upward branching oblique fault systems, (co-advise with David Oglesby, UC Riverside), May 2011.

Reissman, Jeff, Observations of accelerating seismicity in California and Greece; Earthquake forecasting and false alarm rates from a grid-based search algorithm, August 2010.

Nunley, Melissa, Dynamic slip-partitioning in a branched oblique fault system, (co-advise with David Oglesby, UC Riverside) May 2009.

Colella, Harmony, Forward modeling of accelerating seismicity for scenario earthquakes in northern California, May 2006.

Beach, Alyssa, Fracture development on the Gridded Plains of Guinevere Planitia, Venus: implications for the thickness of the elastic lithosphere, Dec. 2004.

Ikeda, Nancy, A statistical evaluation of the likelihood of spurious accelerating moment release in synthetic earthquake catalogs, August 2004.

Clark, Julia, Forward modeling of accelerating moment release for scenario earthquakes in southern California, May 2004.

DeLeon, Ivan, The 1981 Corinth, Greece earthquake sequence: geodetic and Coulomb stress modeling, December 2002.

Relevant Publications

Nichols, K., E. Trevino, N. Ikeda, D. Philo, A. Garcia, and D. Bowman (2017), Interdependency amongst earthquake magnitudes in Southern California, *J. Appl. Statistics*, doi:10.1080/02664763.2017.1313965.

Blazevic, M. A., M. E. Kirby, A. D. Woods, B. L. Browne, D. D. Bowman (2009), A sedimentary facies model for glacial-age sediments in Baldwin Lake, Southern California, *Sed. Geo.*, 219, 151-168, doi: 10.1016/j.sedgeo.2009.05.003.

Tiampo, K. F., D. D. Bowman, H. Colella, and J. B. Rundle (2008), The Stress Accumulation Method and the Pattern Informatics Index: Complementary Approaches to Earthquake Forecasting, *Pure Appl., Geophys.*, 165, 693-709; doi: 10.1007/s00024-008-0329-5.

*Dolan, J. F., D. D. Bowman, and C. G. Sammis (2007), Long-range and long-term fault interactions in southern California, *Geology*, 35, 855-858; doi: 10.1130/G23789A.1.

** 2020 Recipient of Geological Society of America Outstanding Paper Award in Structural Geology and Tectonics. This award is given annually for a published work of exceptional distinction that clearly advanced the science of structural geology or tectonics.*

Mignan, A., G. C. P. King, and D. Bowman (2007), A mathematical formulation of accelerating moment release based on the stress accumulation model, *J. Geophys. Res.*, 112, B07308, doi:10.1029/2006JB004671.

Sohn, M.F., S.A. Mahan, J.R. Knott, and D.D. Bowman (2007), Luminescence ages for alluvial-fan deposits in Southern Death Valley: Implications for climate-driven sedimentation along a tectonically active mountain front, *Quaternary International*, 166, 49-60, doi:10.1016/j.quaint.2007.01.002.

Mignan, A., D. D. Bowman, and G. C. P. King, (2006), An Observational Test of the Origin of Accelerating Moment Release Before Large Earthquakes, *J. Geophys. Res.*, 103, B11304, doi:10.1029/2006JB004374.

- Mignan, A, G. King, D. Bowman, R. Lacassin, and R. Dmowska (2006), Seismic activity in the Sumatra-Java region prior to the December 26, 2004 (Mw=9.0-9.3) and March 28, 2005 (Mw=8.7) earthquakes, *Earth Planet. Sci. Lett.*, 244, 638-654, doi:10.1016/j.epsl.2006.01.058.
- Levin, S. Z., C. G. Sammis, and D. D. Bowman (2006), An observational test of the stress accumulation model based on seismicity preceding the 1992 Landers, CA earthquake, *Tectonophysics*, 413, 39-52.
- King, G., Y. Klinger, D. Bowman and P. Tapponnier (2005), Slip partitioned surface breaks for the 2001 Kokoxilli earthquake (Mw 7.8), *Bull. Seismol. Soc. Am.*, 95, 731-738, doi: 10.1785/0120040101.
- Dolan, J. F., and Bowman, D. D. (2004), Tectonic setting and Coulomb modeling of the September 22, 2003 Puerto Plata, Dominican Republic, earthquake: Implications for earthquake hazard along the Septentrional fault, *Seismol. Res. Lett.*, 75, 582-592.
- Bowman, D.D. and C. G. Sammis (2004), Intermittent criticality and the Gutenberg-Richter distribution, *Pure Appl. Geophys.*, 161, 1945-1956, doi:10.1007/s00024-004-2541-z.
- Sammis, C. G., D. D. Bowman, and G. C. P. King (2004), Anomalous seismicity and accelerating moment release preceding the 2001 and 2002 earthquakes in northern Baja California, Mexico, *Pure Appl. Geophys.*, 161, 2369-2378, doi: 10.1007/s00024-004-2569-3.
- Bowman, D. D., G. C. P. King, and P. Tapponnier (2003), Slip partitioning by elastoplastic propagation of oblique slip at depth, *Science*, 300, 1121-1123.
- King, G. C. P., and D. D. Bowman (2003), The evolution of regional seismicity between large earthquakes, *J. Geophys. Res.*, 108(B2), 2096, doi:10.1029/2001JB000783.
- Bowman, D.D. and G. C. P. King (2001), Accelerating seismicity and stress accumulation before large earthquakes, *Geophys. Res. Lett.*, 28, 4039-4042.
- Bowman, D.D. and G.C.P. King (2001), Seismicity changes before large earthquakes, *C. R. Acad. Sci. Paris*, 333, 591-599.
- King, G.C.P., A. Hubert-Ferrari, S.S. Nalbant, B. Meyer, R. Armijo, and D.D. Bowman (2001), Coulomb interactions and the 17 August 1999 Izmit, Turkey earthquake, *C. R. Acad. Sci. Paris*, 333.
- Bowman, D.D., G. Ouillon, C.G. Sammis, A. Sornette, and D. Sornette (1998), An observational test of the critical earthquake concept, *J. Geophys. Res.* 103, 24359-24372.

Research Grants Funded proposals in **bold**

- Bowman, David D., "Building Opportunities for New Experiences in the Earth Sciences: Project BONES", National Science Foundation Opportunities for Enhancing Diversity in the Geosciences Planning Grant, February 1, 2012 – February 1, 2013, \$39,086.**
- Bowman, David D., and Michele Cooke, "Testing Strain Partitioning Processes with Analog Models", Southern California Earthquake Center, February 1, 2011 – February 1, 2012, \$19,298.
- Bowman, David D. (PI) and David Oglesby "The Dynamics of Complex Fault Branches: Continued Collaboration Between UC Riverside and Cal State Fullerton", Southern California Earthquake Center, February 1, 2010 – January 31, 2011, \$10,300, CSUF portion = \$6,586.**
- Bowman, David D. (PI) and David Oglesby, "Collaborative Research - The Dynamics of Complex Fault Branches", Southern California Earthquake Center, February 1, 2008 – January 31, 2009, \$21,000, CSUF portion = \$12,375.**
- Bowman, David D. and Thomas Jordan, "Formation and Evaluation of Fault- and Alarm- Based Earthquake Prediction Algorithms", Southern California Earthquake Center, February 1, 2007 – January 31, 2008, CSUF portion = \$15,601.**
- Bowman, David D. (PI) and Charles G. Sammis, "Collaborative Research: An Observational and Theoretical Investigation of the Mechanical Properties Controlling the Duration of Accelerating Moment Release Before Large Earthquakes", Southern California Earthquake Center, February 1, 2006 – January 31, 2007, CSUF portion = \$20,000.**

- Bowman, D. (PI) and Thomas Jordan, "Creating a Framework for Evaluating Earthquake Predictions Using Accelerating Moment Release", Southern California Earthquake Center, Feb 1, 2005 – Jan 31, 2006, CSUF portion = \$17,000.
- Bowman, D. (PI) and K. Tiampo, "Collaborative Research - Integrating The Stress Accumulation Method And Pattern Informatics Technique", Southern California Earthquake Center, Feb 1, 2005 – Jan 31, 2006, CSUF portion = \$15,000.
- Bowman, D., and D. Clemens-Knott, The Robert and Louise Lee Collaborative Teaching Award, 2005-2006, \$1500
- Bowman, D. (PI) and K. Tiampo, "Collaborative Research – Analysis and Integration of the Earthquake Stress Cycle Evolution and Pattern Informatics Techniques", Southern California Earthquake Center, Feb 1, 2004 – Jan 31, 2005, CSUF portion = \$10,980.
- Bowman, D. (PI) and S. Levin, "Adaptation of the Stress Accumulation Model of Accelerating Moment Release for Use in OpenSHA", Southern California Earthquake Center, Feb 1, 2004 – Jan 31, 2005. \$38,160.
- Bowman, D.(PI), and J. Dolan, "Forward modeling of accelerating moment release for scenario earthquakes in southern California", Southern California Earthquake Center, Feb 1, 2003-Jan 31, 2004, CSUF portion = \$20,000
- Dolan, J. (PI) and D. Bowman, "Paleoseismologically Constrained Kinematic Modeling of Holocene Strain Release in Southern California", Southern California Earthquake Center, Feb 1, 2003- Jan 31, 2004.
- Bowman, D. (PI), "Forecasting large earthquakes using background seismicity", CSU Program for Research, Scholarship, and Creative Activity, Dec 5, 2001 – July 31, 2002. \$5,000
- Bowman, D. (PI) and C. Sammis, "Stress transfer and accelerating seismicity before large earthquakes", National Science Foundation, Aug 1, 2001 – July 31, 2003. \$117,870
- Li, Y.G. (PI), and D. Bowman, "Delineation of the San Jacinto fault zone near Rialto, San Bernardino, southern California, using fault-zone trapped waves", National Earthquake Hazards Reduction Program, March 1, 2002 – Feb 28, 2003.

Meeting Abstracts

Invited talks in **bold**. * indicates undergrads; # indicates grad students; † indicates postdocs.

- Bowman, D.D. and D. Clemens-Knott (2012), Recruiting and retaining geoscience students at a large public university: Balancing the needs of first-time freshman and upper-division transfer students, Abstract ED53H-07 presented at 2012 Fall Meeting, AGU, San Francisco, Calif., 3-7 Dec.**
- Bowman, D.D., *Tarnowski, J., and Oglesby, D.D. (2011), The Effect of Barriers on Slip Partitioning in an Upward Branching Fault System, Abstract S43C-2264 presented at 2011 Fall Meeting, AGU, San Francisco, Calif., 5-9 Dec.
- *Tarnowski, J. M., D. D. Oglesby, and D. D. Bowman (2010), How Barriers Enable Multi-Fault Rupture in a Branched Fault System, Abstract S43A-2058 presented at 2010 Fall Meeting, AGU, San Francisco, Calif., 13-17 Dec.
- *Nunley, M., *J. Tarnowski, D. Oglesby, and D. Bowman (2010), Dynamic Slip Partitioning in a Branched Oblique Fault System, 7th ACES International Workshop, October 3-8, Otaru, Japan.
- *Nunley, M., D. Oglesby, and D. Bowman (2010), Slip Partitioning in Oblique Fault Systems, *Seismol Res Lett.*, 81(2), 324.

- *Nunley, M., D. Oglesby, and D. Bowman (2008), Rupture Propagation and Slip Partitioning on an Oblique Upward-Branching Fault System , *Eos Trans. AGU*, 89(53), Fall Meet. Suppl., Abstract S44A-01.
- Oglesby, D., Bowman, D., and *Nunley, M. (2008), Rupture Propagation and Slip Partitioning on an Oblique Upward-Branching Fault System, *SCEC Annual Meeting*, Palm Springs, CA, September 6-11, 2008, <http://www.scec.org/meetings/2008am/2008SCECAAnnualMeetingVolume.pdf>
- *Nunley, M. Oglesby, D., and Bowman, D. (2008), Rupture Propagation and Slip Partitioning on an Oblique Upward-Branching Fault System, *Eos Trans. AGU*, 89(53), Fall Meet. Suppl., Abstract S13A-0208.
- Bowman, D. (2007), Forecasting Earthquakes in Southern California Using Precursory Accelerating Moment Release, Conference on Earthquake Predictability and Time-Dependent Forecasting, January 28-31, Rüschlikon, Switzerland.**
- *Mignan, A., King, G. C., and Bowman, D. D. (2006), A Mathematical Formulation of Accelerating Moment Release Based on the Stress Accumulation Model, *Eos Trans. AGU*, 87(52), Fall Meet. Suppl., Abstract S13A-0208.
- King, G. C., *Mignan, A., Bowman, D. D., Dmowska, R., and Lacassin, R. (2006), Earthquake Risk Following the 17 July Java Earthquake, *Eos Trans. AGU*, 87(52), Fall Meet. Suppl., Abstract S21A-0133.
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Presentations and Panels at Workshops and Symposia

- "Symposium on the Impact of Oil Extraction in North Orange County" (organizer and moderator), Cal State Fullerton, September 23, 2014.
- "Panel Discussion of Climate Change in Southern California" (moderator), *Cooper Center Public Lecture Series*, Old Orange County Courthouse, Santa Ana, September 26, 2013.
- "When the Ground Shakes: How an Earthquake in Southern California Could Impact You", *Orange County Red Cross Disaster Preparedness Academy*, Anaheim Convention Center, October 10, 2012.
- "When the Ground Shakes: How an Earthquake in Southern California Could Impact You", *Orange County Red Cross Disaster Preparedness and Recovery Alliance*, Santa Ana, CA, April 10, 2012.
- "Lessons Learned from Recent Large Earthquakes", *Red Cross California Legislative Conference*, Sacramento, March 12, 2012
- "Making the transition to Department Chair", *CSU New Department Chairs Workshop*, Chancellor's Office, CSU Long Beach, February 10, 2012.
- "Lessons Learned from Recent Large Earthquakes", *Red Cross of Orange County Disaster Preparedness Academy*, Anaheim Convention Center, October 26, 2011.
- "Making the transition to Department Chair", *CSU New Department Chairs Workshop*, Chancellor's Office, CSU Long Beach, October 15, 2010.
- "Medium-Term Prediction Experiments" (Reporter), *Earthquake Predictability and Time-Dependent Forecasting*, Swiss Re Center for Global Dialog, Zurich, Switzerland, January 28-30, 2007.
- "Lessons Learned About Earthquakes and Tsunamis in Southern California", *Red Cross of Orange County Disaster Preparedness Academy*, Anaheim Convention Center, May 10, 2006.

- "The Academic Job Search", *Caltech PhD/Postdoc Career Conference*, September 10, 2004.
- "Seismic hazards in southern California", *Red Cross of Orange County Disaster Preparedness Academy*, Cal State Fullerton, June 2, 2004.
- "Observations of Accelerating Moment Release in the Salton Trough, Coachella Valley and Imperial Valley", by D. Bowman, *Scientific Advisory Meeting of the California Earthquake Prediction Evaluation Council to consider the prediction made by V. Keilis-Borok et al.*, SCEC Headquarters, February 20, 2004.
- "Accelerating Seismicity as a RELM Earthquake Rupture Forecast (ERF) Model", by D. Bowman, 2004 RELM Workshop, UCLA Conference Center, Lake Arrowhead, February 17-19, 2004.
- "Seismic hazards in southern California", *Red Cross of Orange County Disaster Preparedness Academy*, Cal State Fullerton, June 4, 2003.
- "Can we apply statistical physics to earthquakes?", *Symposium on Non-Equilibrium Statistical Mechanics in the New Millennium*, Boston University, March 29-30, 2003.
- "The Evolution of Regional Seismicity Between Large Earthquakes" – *Fourth Joint Meeting of the Panel on Earthquake Research, United States-Japan Conference on Development and Utilization of Natural Resources*, Morioka, Japan, November 6-8, 2002.
- "Building a Successful Research Lab", *Caltech PhD/Postdoc Career Conference*, September 5, 2002.

Public Lectures

- "The 2017 Mexico City Earthquake: What Happened, and Could it Happen Here?", *MOBIUS Science Center*, September 23, 2017.
- "The Montana Earthquake: Fact and Fiction", *Eastern Washington University*, July 7, 2017.
- "The Real Earthquakes of the OC: The March 28 La Habra Earthquake and Implications for Earthquake Preparedness", *Orange County Water District*, October 20, 2014.
- "The Real Earthquakes of the OC: The March 28 La Habra Earthquake and Seismic Hazards in Southern California", *Osher Lifelong Learning Institute, Cal State Fullerton*, September 18, 2014.
- "Real Earthquakes of the OC: The March 28 La Habra Earthquake", *Fullerton Public Library Town & Gown Series*, April 15, 2014.
- "Accelerating Seismicity before Large Earthquakes: Life and Death of an Earthquake Prediction", *San Bernardino Natural History Museum*, March 27, 2013.
- "Accelerating Seismicity before Large Earthquakes: Life and Death of an Earthquake Prediction", *Osher Lifelong Learning Institute, Cal State Fullerton*, March 19, 2013.
- "When the Ground Shakes: How an Earthquake in Southern California Could Impact You", *Leisure World Earthquake Preparedness Seminar*, September 13, 2012.
- "When the Ground Shakes: How an Earthquake in Southern California Could Impact You", *Fullerton Public Library Town & Gown Series*, June 12, 2012.
- "The March 11, 2011 M=9.0 Japan Earthquake: What Happened? Are we next?" (with Greg Childers, CSUF Physics and Binod Tiwari, CSUF Civil Engineering), *Fullerton Public Library Town & Gown Series*, March 30, 2011.
- "The March 11, 2011 M=9.0 Japan Earthquake: What Happened? Are we next?", *Leisure World Earthquake Preparedness Seminar*, March 23, 2011.

- "The March 11, 2011 M=9.0 Japan Earthquake: What Happened? Are we next?" (with Greg Childers, CSUF Physics), *Cal State Fullerton*, March 16, 2011.
- "Seismic Hazards in southern California: lessons learned from recent earthquakes", *Landmark Town Hall Meeting, City of La Mirada*, September 23, 2010.
- "Seismic Hazards in southern California: lessons learned from recent earthquakes", *Leisure World Emergency Preparedness Workshop (keynote)*, March 23, 2011.
- "M=7.2 Mexicali Earthquake: What Happened? Are we next?" (with Phil Armstrong), *Fullerton Public Library Town & Gown Series*, April 27, 2010.
- "The 2010 Earthquakes in Haiti & Chile: Are we next?", *Fullerton Public Library Town & Gown Series*, April 27, 2010.
- "The 2010 Earthquakes in Haiti & Chile: Are we next?", *Fullerton Sunrise Rotary*, March 4, 2010.
- "The 2010 Haiti Earthquake: Are we next?", *Discovery Science Center*, January 19, 2010.
- "Earthquakes in southern California: ShakeOut, Don't Freak Out!", *Fullerton Public Library Town & Gown Series*, October 8, 2009.
- "The great Indonesian earthquake and tsunami: What happened? Could it happen here?" – D. Bowman, B. Rhodes, and M. Kirby, CSUF Continuing Learning Experience Program, Feb. 2, 2005.
- "The great Indonesian earthquake and tsunami: What happened? Could it happen here?" – D. Bowman and B. Rhodes, NSM Inter-Club Council Symposium, April 13, 2005.
- "The great Indonesian earthquake and tsunami: What happened? Could it happen here?" – D. Bowman, B. Rhodes, and M. Kirby, NSM Colleagues Colloquium, April 20, 2005.
- "Current 'Scientific Earthquake Prediction(s)' in southern and eastern California", NSM Inter-Club Council Symposium, May, 2004.

Department Seminars

- "Accelerating Moment Release Before Large Earthquakes: Life and Death (and Rebirth?) of an Earthquake Prediction Scheme", *EWU Geology Colloquium*, January 31, 2017.
- "Accelerating Moment Release Before Large Earthquakes: Life and Death (and Rebirth?) of an Earthquake Prediction Scheme", *Boston University Physics Colloquium*, November 15, 2011.
- "Slip Partitioning in Continental Lithosphere", *University of Massachusetts at Amherst Geosciences Lecture Series*, November 11, 2011.
- "Fault Propagation and Slip Partitioning in Continental Lithosphere", *Cal State Northridge Geology Speakers Series*, March 2, 2010.
- "Earthquakes in southern California: ShakeOut, Don't Freak Out!", *Fullerton College Natural Sciences Seminar*, October 7, 2009.
- "Seismic Hazards in Southern California", *CSUF Physics Colloquium*, October 30, 2009.
- "Some Problems in Statistical Seismology", *CSUF Statistics Colloquium*, May 8, 2009.
- "Accelerating Seismicity Before Large Earthquakes: Life and Death of an Earthquake Prediction Scheme", *SDSU Geology Seminar*, March 18, 2009.
- "Accelerating Seismicity Before Large Earthquakes: Life and Death of an Earthquake Prediction Scheme", *Association of Engineering Geologists Inland Empire Section Meeting*, December 19, 2007.
- "Accelerating Seismicity Before Large Earthquakes: Life and Death of an Earthquake Prediction Scheme", *Berkeley Seismology Lab Seminar*, November 13, 2007.

- "Getting ready for an earthquake: Accelerating seismicity and earthquake rupture forecasts", *UC Davis Geology Seminar Series*, October 18, 2006.
- "Getting ready for an earthquake: Accelerating seismicity and earthquake rupture forecasts", *USGS Earthquake Hazards Team Seminar Series*, June 14, 2006.
- "Getting ready for an earthquake: Accelerating seismicity and earthquake rupture forecasts", *USC Earth Sciences Department Seminar Series*, August 29, 2005.
- "Accelerating Moment Release and the Prediction of Large earthquakes", *Geophysical Laboratory Seminar, Aristotle University of Thessaloniki*, Thessaloniki, Greece, June 22, 2005.
- "Slip partitioning and the heterogeneous regional stress fields in continental lithosphere", *UCLA Tectonics Seminar Series*, May 23, 2005.
- "The art and science of seismic hazard analysis in southern California", *Fullerton College Natural Sciences Seminar*, April 21, 2005.
- "Fault Propagation in Continental Lithosphere: Cheddar vs. Camembert", *UC Riverside Hewitt Club Seminar Series*, March 8, 2005.
- "Earthquake Predictability and the Physics of the Earthquake Cycle", *Center for Earthquake Analysis and Prediction, China Earthquake Authority*, Beijing, China, July 15, 2004.
- "Fault propagation and strain partitioning in continental lithosphere", *San Diego State University Geological Sciences Seminar*, March 10, 2004.
- "Fault propagation and slip partitioning in continental lithosphere", *Scripps Institute of Oceanography Geophysics Seminar*, October 10, 2003.
- "Fault propagation and strain partitioning in continental lithosphere", *Harvard University Solid Earth Physics Seminar*, April 1, 2003.
- "Strain accommodation in continental lithosphere", *Cal State Fullerton Geological Sciences Seminar*, March 12, 2003.
- "Stress Accumulation Before Large Earthquakes and the Physics of the Seismic Cycle", *UCSB Geology Department Seminar*, November 21, 2002.
- "Strain Accommodation in Continental Lithosphere" - *USC Earth Sciences Department Seminar* April 22, 2002.
- "L'Évolution de Seismicité et la Cycle Seismique" - *Institut de Physique du Globe de Paris Seminaire Tectonique* Jan 17, 2002.
- "The Evolution of Regional Seismicity Between Large Earthquakes" - *USC Earthquake Physics Seminar* Oct. 23, 2001.
- "Accelerating Seismicity and Stress Accumulation Before Large Earthquakes" - *UCLA Geophysics Seminar* Oct. 17, 2001.
- "L'Évolution de Seismicité et la Cycle Seismique" - *Université de Savoie* July 2001.