

BIOGRAPHICAL SKETCH - Ray James Weldon II

Department of Earth Sciences, University of Oregon, Eugene, OR, 97403-1272
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Professional Preparation:

Ph.D. (Advisor: K. Sieh), Geology, 1986, California Institute of Technology Pasadena, CA
B.A. (cum laude), Geology, 1977, Pomona College, Claremont, CA

Professional Appointments:

Professor, Structural Geology and Neotectonics, University of Oregon (2000-present)
“Wise Heads” Advisory Group (voted by other Dept Heads to advise Dean, 2012-13)
Department Head, Geological Sciences, University of Oregon (2010-3)
Associate Professor 1993-9, Assistant Professor 1988-93 (University of Oregon)
Research Geologist, US Geological Survey, Earthquake Office, Menlo Park (1986-1988)
Visiting Professor, Earth Observatory of Singapore (2015-present), UCLA (2008), Chulalongkorn University, Thailand (1997), Jussieu, Paris VII, & Orsay, Paris-Sud, France (1993-4), and Universidad Nacional Autonoma de Mexico (1994); Instructor, Occidental College 1985-1986)

Affiliations, Awards, Advisory and Honorary Appointments (complete since 2005):

USGS National Seismic Hazard Map Advisory Committees (2011-present; 2013 “Tiger Team” subcommittee for integration of UCERF3; Formalized Steering Committee since 2013)
Working Group on California Earthquake Probabilities and Uniform California Earthquake Rupture Forecast (UCERF) Executive Committee (UCERF1-3; 2005-present)
PG&E Seismic Advisory Panel, Pit River Dams project (2011-present)
Advisor to LA Metropolitan Water District (Colorado River Aqueduct), via GeoPentech (2013-present)
USGS National Earthquake Hazard Reduction Panels (intermittently 1989-present)
Lead, Technical Integration Team, SONGS SSHAC (level 3) NRC relicensing, via GeoPentech (2011-3)
Advisor for California Dept. of Water Resources Cedar Springs Dam re-evaluation (2011-3)
Organizing Committee Portland 2010 Seismological Society of America Meeting
Yucca Mountain National Waste Repository Extreme Ground Motion Project Review Panel (2010)
University of Oregon Research Innovation Award (2009)
PG&E Seismic Advisory Panel, Diablo Canyon Nuclear Power Plant (2008-2011)
Paleoseismic Advisory Panel, Panama Canal Authority (2008-9)
Advisor for State of Alaska Natural Gas Pipeline Project (2007-9)
USGS National Earthquake Prediction Evaluation Council (NEPEC) (1989-1994, 2005)
Panel Member, NSF International Partnerships (2005-6), Continental Dynamics (1996-2001)
Presidential Young Investigator Award from NSF (Presented by President Bush in 1990)
Member of Geological Society of America, American Geophysical Union, Seismological Society of America, Sigma XI, AOGS, and AAAS (all intermittently over past 35+ years)

Current Research:

Paleoseismology, conditional probabilities and seismic hazard of ground rupturing earthquakes.
Slip rate, structure, kinematics, and evolution of faults and complex continental plate boundaries; currently working in Oregon, California, Central Asia (Kyrgyzstan), and SE Asia (Myanmar, Yunnan, and Thailand).
Integrating modern geodesy, historical leveling and tidal records, and to map strain accumulation and relative sea level change; currently applied to Washington Coastal Resilience project on the Cascadia subduction zone.

Current and Recent Teaching:

Field Camp (Oregon and in Central and SE Asia), Structural Geology, Geology of Oregon and the Pacific Northwest, Neotectonics and Quaternary Geology, Surveying for Earth and Environmental Scientists, Intro Field Methods, Advanced Structural Geology, Geologic Hazards, and misc. advanced topical seminars.

Current Funding:

- 1) Extending the Earthquake Record on the Southern Santa Cruz Mtns Segment of the San Andreas Fault – \$52,715 (USGS-NEHRP).
- 2) Improving Risk Communication and Leveraging Existing Programs in Washington State to Build Capacity and Enhance Resilience in Coastal Communities - \$879,255 (NOAA, plus UW match, Washington SeaGrant; Lead PI: Miller at UW).
- 3) Seismic Behavior of Sinistral Strike-slip Faults of the Shan Plateau – S\$191,623 (Earth Observatory of Singapore (EOS); lead PI: Shi at EOS).
- 4) Earthquake Geology of Myanmar and Surrounding Areas - S\$201,759 (EOS; lead PI: Wang Yu at EOS)
- 5) Singapore-WiscAr Partnership (SWAP) - S\$100,653 (EOS; lead PI: Herrin at EOS).

Recent Public Outreach:

OMSI (Oregon Museum of Science and Industry) “Science Pub” Public Lecture (PL), Eugene Rotary Club PL, NWEA (NW Energy Association) PL, Viking Lander exhibit at Corvallis Makers Fair, Annual SE Asia Paleoseismology Training Courses – funded by EOS, Sloan Foundation, and local Geological Surveys – most recent, February 2017, in Myanmar and Thailand, had 68 participants from 11 countries for 2 weeks), Eugene City Club Live (KLCC/NPR) Public Discussion (next one scheduled for May 19th, 2017).

Recent Significant Collaborators:

K. Abdrakhmatov, S. Bemis, G. Biasi, R. Burgette, T. Dawson, N. Field, T. Fumal, S. Hopkins, G. Humphreys, C. Madden, S. McGill, I. Miller, T. Rockwell, M. Rymer, K. Scharer, D. Schmidt, X. Shi, K. Sieh, D. Toomey, E. (LiLi) Weldon, W. Yu, W. Wiwegwin, C. Wills, X. Wen.

Graduated Students (alphabetical; BS Thesis students not listed):

S. Alba (MS), L. Austin (MS), S. Bemis (PhD), G. Biasi (PhD), J. Boley (MS), R. Burgette (PhD), R. Foxx (MS), M. Hemphill-Haley (PhD), M. Kenny (PhD), R. Langridge (PhD), W. Liu (PhD at Caltech-coadvised), C. Mitchell (MS), K. Paulson (MS), S. Perry (MS), S. Pezzopane (PhD), B. Philibosian (MS), T. Powers (MS), K. Scharer (PhD), G. Seitz (PhD), J. Sheridan (PhD), J. Stimac (PhD), A. Streig (PhD), S. Thompson (PhD at UW-coadvised), A. Treerotchananon (MS), P. Vincent (MS), D. Winston (MS at USC-coadvised), R. Witter (PhD-coadvised).

Publications (complete for past 7 years, selected for previous 5 years):

- Scharer, K., **R. Weldon II**, G. Biasi, A. Streig, and T. Fumal, 2017, Ground-rupturing earthquakes on the northern Big Bend of the San Andreas Fault, California, 800 A.D. to Present, *J. Geophys. Res. Solid Earth*, 122, doi:10.1002/2016JB013606.
- Burgette, R.J., **R.J. Weldon II**, K.Y. Abdrakhmatov, C. Ormukov, L.A. Owen, S.C. Thompson, 2017, Timing and Process of River and Lake Terrace Formation in the Kyrgyz Tien Shan, *Quaternary Science Reviews*, 10.1016/j.quascirev.2017.01.003.
- Xuhua Shi, Yu Wang, Jing Liu-Zeng, **Ray Weldon**, Shengji Wei, Teng Wang, Kerry Sieh, 2017, How complex is the 2016 Mw 7.8 Kaikoura earthquake, South Island, New Zealand? *News & Views, Science China Press*, <http://dx.doi.org/10.1016/j.scib.2017.01.033>.
- Field, E.H., T.H. Jordan, M.T. Page, K.R. Milner, B.E. Shaw, T.E. Dawson, G.P. Biasi, T. Parsons, J.L. Hardebeck, A.J. Michael, **R.J. Weldon II**, P.M. Powers, K.M. Johnson, Y.H. Zeng, P. Bird, K. R. Felzer, N. van der Elst, C. Madden, R. Arrowsmith, M.J. Werner, W.R. Thatcher, D.D. Jackson, *in press SRL*, A Synoptic View of the Third Uniform California Earthquake Rupture Forecast (UCERF3).
- Egger, A.E., D.E. Ibarra, **R.J. Weldon II**, R.M. Langridge, B. Marion, J. Hall, *in press*, The influence of pluvial lake cycles on earthquake recurrence in the northwestern Basin and Range, USA, **in** From Saline to Freshwater: The Diversity of Western Lakes in Space and Time, edited by S.W. Starratt and M.R. Rosen, *GSA Special Paper xxx*.

- Streig, A.R., **R.J. Weldon II**, T.E. Dawson, D.G. Gavin, T. Guilderson, *in review BSSA*, New Insights on Inputs to Paleoseismic Age Determination Models: Revised Earthquake Ages on the Southern Santa Cruz Mountains San Andreas Fault
- Shi, X., K. Sieh, Y. Wang, L. Feng, **R. Weldon**, C-H. Chan, J Liu, *in review GRL*, Slip Rates and GPS Velocities Across the Sinistral-slip Faults on the Shan Plateau: Implications for the Geodynamics around the Eastern Himalayan Syntaxis.
- Weldon, R.**, G. de Lamare, D. Yule, W. C. Hammond, A. Streig, A. Sarmiento, S.T. Freeman, J. Shamma, M. Beikae, A. Rodriguez, 2016, San Andreas Fault - South Branch Surface Deformation Modeling and Risk to the Colorado River Aqueduct, *in Applied Geology in California*, eds. R. Anderson & H. Ferriz, Association of Engineering Geologists (AEG) Special Publication 26, ISBN 978-0-89863-399-3.
- Scharer, K., **R. Weldon**, S. Bemis, 2016, Testing Geomorphology-Derived Rupture Histories against the Paleoseismic Record of the Southern San Andreas fault, paper presented at the 7th International INQUA Meeting on Paleoseismology, Active Tectonics, and Archeoseismology, Crestone, Colo.
- Scharer, K. M., T. E. Fumal, **R. J. Weldon II**, A. R. Streig, 2015, Photomosaics and event evidence from the Frazier Mountain paleoseismic site, trench 1, cuts 5–24, San Andreas Fault Zone, southern California (2010–2012), U.S. Geol. Surv. Open File Rep., 25 p., 3 sheets, doi:10.3133/ofr20151147.
- Bemis, S.P., **Weldon, R.J.**, Carver, G.A., 2015, Slip partitioning along a continuously curved fault: Quaternary geologic controls on Denali fault system slip partitioning, growth of the Alaska Range, and the tectonics of south-central Alaska: *Lithosphere*, v. 7, n. 3, p. 235-246. doi: 10.1130/L352.1.
- Krogstad, R., Schmidt, D.A., **Weldon, R.J.II**, Burgette, R., 2015, Constraints on accumulated strain in the ETS zone along Cascadia, *Earth and Planetary Science Letters*.
- Scharer, K. M., T. E. Fumal, **R. J. Weldon II**, and A. R. Streig 2014, Photomosaics and event evidence from the Frazier Mountain paleoseismic site, Trench 1, Cuts 1–4, San Andreas Fault Zone, Southern California (2007-2009), U.S. Geol. Surv. Open File Rep., 2014-1002, 4 sheets, various scales, pamphlet 23 p. [Available at [http://pubs.usgs.gov/of/2014/1002/.](http://pubs.usgs.gov/of/2014/1002/)]
- Mackey, B.H., Castonguay, S.R., Wallace, P.J., **Weldon, R.J. II**, 2014, Synchronous late Pleistocene extensional faulting and basaltic volcanism in pluvial Fort Rock basin, central Oregon, USA, *Geosphere*. doi:10.1130/GES00990.1.
- Scharer, K., **R. Weldon**, A. Streig, and T. Fumal (2014), Paleoearthquakes at Frazier Mountain, California delimit extent and frequency of past San Andreas Fault ruptures along 1857 trace, *Geophys. Res. Lett.*, 41, 4527–4534, doi:10.1002/2014GL060318.
- Field, E.H., (alphabetical hereafter) Arrowsmith, R.J., Biasi, G.P., Bird, P., Dawson, T.E., Felzer, K.R., Jackson, D.D., Johnson, K.M., Jordan, T.H., Madden, C., Michael, A.J., Milner, K.R., Morgan T. Page, Parsons, P., Powers, P.M., Shaw, B.E., Thatcher, W. R., **Weldon, R.J.II**, and Zeng, Y. (Working Group on California Earthquake Probabilities; WGCEP14), 2014, Uniform California Earthquake Rupture Forecast, Version 3 (UCERF3) – The Time-Independent Model, *Bulletin of the Seismological Society of America* [also published as *USGS and CGS Open-File Reports*]
- Streig, A.R., Dawson, T.E., and **Weldon, R.J.II**, 2014, Paleoseismic Evidence of the 1890 and 1838 Earthquakes on the Santa Cruz Mountains Section of the San Andreas Fault, near Corralitos, California, *Bulletin of the Seismological Society of America*, 104:285-300.
- Scharer, K.M., Fumal, T.E., **Weldon, R.J., II**, and Streig, A.R., 2014, Photomosaics and event evidence from the Frazier Mountain paleoseismic site, trench 1, cuts 1–4, San Andreas Fault Zone, southern California (2007–2009): Open-File Report 2014–1002, 4 sheets, pamphlet, 23 p., various scales, <http://dx.doi.org/10.3133/ofr20141002>.

- Field, E.H., Biasi, G.P., Bird, P., Dawson, T.E., Felzer, K.R., Jackson, D.D., Johnson, K.M., Jordan, T.H., Madden, C., Michael, A.J., Milner, K.R., Page, M.T., Parsons, T., Powers, P.M., Shaw, B.E., Thatcher, W.R., **Weldon, R.J.II**, and Zeng, Y. (authors alphabetical after 1st author Field), 2013, Uniform California Earthquake Rupture Forecast, version 3 (UCERF3)—The time-independent model: U.S. Geological Survey Open-File Report 2013–1165, 97 p., California Geological Survey Special Report 228, and Southern California Earthquake Center Publication 1792, <http://pubs.usgs.gov/of/2013/1165/>
- Weldon, R.J.II**, and Biasi, G.P., 2013, Probability of Detection of Ground Rupture at Paleoseismic Sites, (WGCEP14, UCERF3, Appendix I), U.S. Geological Survey Open-File Report 2013–1165-I, California Geological Survey Special Report 228-I, and Southern California Earthquake Center Publication 1792-I. [note - all UCERF3 Appendices went through 2 rounds of peer review]
- Weldon, R.J.II**, Dawson, T.E., Biasi, G.P., Madden, C., and Streig, A.R., 2013 Paleoseismic Sites Recurrence Database, (WGCEP14, UCERF3, Appendix G), U.S. Geological Survey Open-File Report 2013–1165-G, California Geological Survey Special Report 228-G, and Southern California Earthquake Center Publication 1792-G.
- Weldon, R.J.II**, Schmidt, D.A., Austin, L.J., Weldon, E.M., and Dawson, T.E., 2013 Compilation of Creep Rate Data for California Faults and Calculation of Moment Reduction due to Creep, (WGCEP14, UCERF3, Appendix D), U.S. Geological Survey Open-File Report 2013–1165-D, California Geological Survey Special Report 228-D, and Southern California Earthquake Center Publication 1792-D.
- Dawson, T.E., and **Weldon, R.J.II**, 2013, Geologic-Slip-Rate Data and Geologic Deformation Model, (WGCEP14, UCERF3, Appendix B), U.S. Geological Survey Open-File Report 2013–1165-B, California Geological Survey Special Report 228-B, and Southern California Earthquake Center Publication 1792-B.
- Biasi, G.P., **Weldon, R.J.II**, and Dawson, T.E., 2013, Distribution of Slip in Ruptures, (WGCEP14, UCERF3, Appendix F), U.S. Geological Survey Open-File Report 2013–1165-F, California Geological Survey Special Report 228-F, and Southern California Earthquake Center Publication 1792-F.
- Biasi, G.P., Parsons, T., **Weldon, R.J.II**, and Dawson, T.E., 2013, Fault-to-Fault Rupture Probabilities, (WGCEP14, UCERF3, Appendix J), U.S. Geological Survey Open-File Report 2013–1165-J, California Geological Survey Special Report 228-J, and Southern California Earthquake Center Publication 1792-J.
- Parsons, T., Johnson, K.M., Bird, P., Bormann, J., Dawson, T.E., Field, E.H., Hammond, H., Herring, T., McCaffrey, R., Shen, Z.K., Thatcher, W., **Weldon, R.J.II**, and Zeng, Y., 2013, Deformation Models for UCERF3, (WGCEP14, UCERF3, Appendix C), U.S. Geological Survey Open-File Report 2013–1165-C, California Geological Survey Special Report 228-C, and Southern California Earthquake Center Publication 1792-C.
- Madden, C., Haddad, D.E., Salisbury, J.B., Zielke, O., Arrowsmith, J.R., **Weldon, R.J.II**, and Colunga, J., 2013, Compilation of Slip-in-the-Last Event Data and Analysis of Last Event, Repeated Slip, and Average Displacement for Recent and Prehistoric Ruptures (WGCEP14, UCERF3, Appendix R), U.S. Geological Survey Open-File Report 2013–1165-R, California Geological Survey Special Report 228R, and Southern California Earthquake Center Publication 1792-R.
- Bemis, S.P., **Weldon, R.J.II**, Thoms, E.E., Burns, P., and Owen, L.A., 2013, Quaternary geologic map of the Japan Hills – Gold King area, central Alaska: Identification of active thrust faults and related late Cenozoic deformation, *Alaska Division of Geological & Geophysical Surveys*, Preliminary Interpretive Report.

- McGill, S.F., Owen, L.A., **Weldon, R.J.II**, Kendrick, K.J., 2012, Latest Pleistocene and Holocene Slip Rate for the San Bernardino Strand of the San Andreas Fault, Plunge Creek Southern California: Implications for Strain Partitioning within the Southern San Andreas Fault System for the last ~35 ka, *Geological Society of America, Bulletin*, 125, p. 48-72 (doi: 10.1130/B30647.1).
- Gao, H.Y., Schmidt, D.A., and **Weldon, R.J.II**, 2012, Scaling relationships of source parameters for slow slip events, *Bulletin of the Seismological Society of America*, v. 102, No. 1, pp. 352–360, doi: 10.1785/0120110096.
- Philibosian, B., Fumal, T.E., and **Weldon, R.J.II**, 2011, San Andreas Fault earthquake chronology and lake Cahuilla history at Coachella, California, *Bulletin of the Seismological Society of America*, v. 101, DOI: 10.1785/0120100050.
- Scharer, K. M., Biasi, G.P., and **Weldon, R.J.II**, 2011, A re-evaluation of the Pallett Creek earthquake chronology based on new AMS radiocarbon dates, San Andreas fault, California, *J. Geophys. Res.*, doi:10.1029/2010JB008099.
- Biasi, G.P., **Weldon, R.J.II**, and Scharer, K.M., 2011, Rupture length and paleomagnitude estimates from point measurements of displacement—A model-based approach; Chapter 9, *in*, Geological Criteria for Evaluating Seismicity Revisited: Forty Years of Paleoseismic Investigations and the Natural Record of Past Earthquakes, eds. Audemard, F.A., Michetti, A.M., and McCalpin, J.P., *Geological Society of America, Special Paper* 479.
- Rymer, M.J., Treiman, J.A., Kendrick, K.J., Lienkaemper, J.J., **Weldon, R.J.II**, Bilham, R., Wei, M., Fielding, E.J., Hernandez, J.L., Olson, B.P.E., Irvine, P.J., Knepprath, N., Sickler, R.R., Tong, X., and Siem, M.E., 2010, Triggered Surface Slips in Southern California Associated with the 2010 El MayorCucapah, Baja California, Mexico, Earthquake, *USGS Open-File Report* 2010–1333 (Jointly published; California Geological Survey Special Report 221).
- Scharer, K.M., Biasi, G.P., **Weldon, R. J.II**, and Fumal, T.E., 2010, Quasi-Periodic Recurrence of Large Earthquakes on the Southern San Andreas Fault, *Geology*, 38, 555-558.
- Behr, W.M., Rood, D.H., Fletcher, K.E., Guzman, N., Finkel, R., Hanks, T.C., Hudnut, K.W., Kendrick, K.J., Platt, J.P., Sharp, W.D., **Weldon, R.J.II**, and Yule, J.D., 2010, Uncertainties in slip rate estimates for the Mission Creek strand of the southern San Andreas fault at Biskra Palms Oasis, southern California, *Geological Society of America, Bulletin*, v. 122; no. 9/10; p. 1360–1377; doi: 10.1130/B30020.1.
- Biasi, G., and **Weldon, R.J.II**, 2009, San Andreas fault rupture scenarios from multiple paleoseismic records: stringing pearls, *Bulletin of the Seismological Society of America*, v. 99; no. 2A; p. 471-498; DOI: 10.1785/0120080287.
- Burgette, R.J., **Weldon, R.J.II**, Schmidt, D.A., 2009, Interseismic uplift rates for western Oregon and along-strike variation in locking on the Cascadia subduction zone, *Journal of Geophysical Research*, v. 114, B01408, doi:10.1029/2008JB005679.
- McCalpin, J.P., Rockwell, T.K., and **Weldon, R.J.II**, 2009, Chapter 6: Paleoseismology of strike slip tectonic environments, *in* Paleoseismology, Second Edition, ed. McCalpin, J.P., v. 95 *International Geophysics Series*, p. 421-496, Elsevier Inc.
- Field, E.D., Dawson, T.E., Felzer, K.R., Frankel, A.D., Gupta, V., Jordan, T.H., Parsons, T., Petersen, M.D., Stein, R.S., **Weldon, R.J.II**, and Wills, C.J., (authorship alphabetical after Field), 2009, Uniform California earthquake rupture forecast, Version 2 (UCERF 2), *Bulletin of the Seismological Society of America*, v. 99, p. 2053-2107, DOI: 10.1785/0120080049.
- Philibosian, B., Fumal, T., Kendrick, K., **Weldon, R.**, Scharer, K., Bemis, S., Burgette, R., and Wisely, B., 2009, Photomosaics and logs of trenches on the San Andreas fault near Coachella, California, *U.S. Geological Survey Open-File Report* 2009-1039.

- WGCEP** (Working Group on California Earthquake Probabilities; **Weldon** was 1 of 5-member Executive Committee that wrote the report), 2008, The uniform California earthquake rupture forecast, Version 2 (UCERF 2): *U.S. Geological Survey Open-File Report 2007-1437 & CGS Special Report 203*.
- Weldon, R.J.II**, Biasi, G.P., Wills, C.J., and Dawson, T.E., 2008, Overview of the southern San Andreas fault model; Appendix E, WGCEP (Working Group on California Earthquake Probabilities, 2007): *U.S. Geological Survey Open-File Report 2007-1437E & CGS Special Report 203E*.
- Wills, C.J., **Weldon, R.J.II**, and Bryant, W.A., 2008, California fault parameters for the National Seismic Hazard Map and Working Group on California Earthquake Probabilities 2007; Appendix A, WGCEP (Working Group on California Earthquake Probabilities, 2007): *U.S. Geological Survey Open-File Report 2007-1437A & CGS Special Report 203A*.
- Dawson, T.E., **Weldon, R.J.II**, and Biasi, G.P., 2008, Recurrence interval and event age data for Type A faults; Appendix B, WGCEP (Working Group on California Earthquake Probabilities, 2007): *U.S. Geological Survey Open-File Report 2007-1437B & CGS Special Report 203B*.
- Wills, C.J., **Weldon, R.J.II**, and Field, E.H., 2008, A-Priori rupture models for Northern California Type-A Faults; Appendix K, WGCEP (Working Group on California Earthquake Probabilities, 2007): *U.S. Geological Survey Open-File Report 2007-1437K & CGS Special Report 203K*.
- Field, E.H., **Weldon, R.J.II**, Gupta, V., Parsons, T., Wills, C.J., Dawson, T.E., Stein, R.S., and M.D. Petersen, 2008, Development of final A-fault rupture models for WGCEP/NSHMP earthquake rate model 2.3; Appendix G, WGCEP (Working Group on California Earthquake Probabilities, 2007): *U.S. Geological Survey Open-File Report 2007-1437G & CGS Special Report 203G*.
- Wisely, B.A., Schmidt, D.A., and **Weldon, R.J.II**, 2008, Compilation of surface creep on California faults and comparison of WGCEP 2007 deformation models to Pacific-North America plate motion; Appendix P, WGCEP (Working Group on California Earthquake Probabilities, 2007): *U.S. Geological Survey Open-File Report 2007-1437P & CGS Special Report 203P*.
- Dawson, T.E., Rockwell, T.K., **Weldon, R.J.II**, and Wills, C.J., 2008, Summary of geologic data and development of A-Priori rupture models for the Elsinore, San Jacinto and Garlock faults; Appendix F, WGCEP (Working Group on California Earthquake Probabilities, 2007): *U.S. Geological Survey Open-File Report 2007-1437F & CGS Special Report 203F*.
- Scharer, K.M., **Weldon, R. J.II**, Fumal, T.E., Biasi, G.P., 2007. Paleoearthquakes on the southern San Andreas fault, Wrightwood, CA 3000 to 1500 B.C.: a new method for evaluating paleoseismic evidence and earthquake horizons, *Bulletin of the Seismological Society of America*, 97, 1054-1093.
- Абдрахматов К.Е., Томпсон С., **Уилдон Р.** Активная тектоника Тянь-Шаня. *Бишкек Илим*, 2007, 72стр. [Abdrakhmatov, K.E., Thompson S., **Weldon R.**, 2007, Active tectonics of Tien Shan, *Bishkek, Ilim*, 72pp.]
- Biasi, G.P. and **Weldon, R.J.II**, 2006, Estimating surface rupture length and magnitude of paleoearthquakes from point measurements of rupture displacement, *Bulletin of the Seismological Society of America*, 96, 1612-1623.
- Scharer, K.M., Burbank, D.W., Chen, J., and **Weldon, R.J.II**, 2006, Detachment folds deform fluvial terraces: Comparison of kinematic models and preserved terraces across the Kashi-Artushi fold system, Chinese Tian Shan, *Bulletin of the Geological Society of America*.
- Weldon, R.J.II**, Fumal, T.E., Biasi, G.P., and Scharer, K.M., 2005, Past and future earthquakes on the San Andreas fault, *Science*, v.308, p. 966-967.
- Weldon, R.J.II**, Scharer, K.M., Fumal, T.E., and Biasi, G.P., 2004, Wrightwood and the earthquake cycle: What a long recurrence record tells us about how faults work, *GSA Today*, v. 14, 4-10.