

# Curriculum Vitae

## JOHN WAKABAYASHI

**Professor of Geology, California State University, Fresno, Department of Earth and Environmental Sciences, 2576 E. San Ramon Ave., Mail Stop ST-24, Fresno, CA 93740-8039  
tel. (559-278-6459)**

**email: [jwakabayashi@csufresno.edu](mailto:jwakabayashi@csufresno.edu)**

### EDUCATION

A.B. Geology, University of California, Berkeley, 1980; Ph.D. Geology, University of California, Davis, 1989

### REGISTRATION

California Professional Geologist No. 5890

### PROFESSIONAL SOCIETY MEMBERSHIP & LEADERSHIP

Geological Society of America (Fellow): Meeting and Technical Program Chair of 2013 Cordilleran Section Annual Meeting; Past President of International Division (now Section); member, nominating committee for Distinguished Career Award, Mineralogy, Geochemistry, Petrology and Volcanology Division; nominating committee for Best Paper Award, Structural Geology and Tectonics Division; American Geophysical Union (Member); Association of Engineering Geologists (Member): continuing education committee; Northern California Geological Society (Member).

### EMPLOYMENT

8/2015 to present: Professor of Geology, California State University, Fresno  
8/2010 to 8/2015: Associate Professor of Geology, California State University, Fresno  
5/2015 Visiting Professor University of Paris UPMC, Paris, France  
8/2005 to 8/2010: Assistant Professor of Geology, California State University, Fresno  
1993 to 2005: Independent geological consultant: engineering and environmental geology, neotectonics/seismic hazard, engineering petrography, independent research.  
2005: Lecturer, University of California, Berkeley: taught field course with theme of geologic transect of California  
1998-1999: Lecturer, California State University, Hayward (now East Bay): taught structural geology winter quarter in both years  
1998: Lecturer, University of California, Berkeley: taught structural geology spring semester  
1996: Lecturer, California State University, Hayward (now East Bay): taught graduate seminar on evolution of the San Andreas fault system  
1989 to 1992 Geologist, Earth Sciences Associates, Inc., Palo Alto, CA; Seismotectonic analysis and neotectonics; probabilistic seismic hazard analysis; petrographic analysis; slope stability; project work included investigations for water resources (dams, pipelines, tunnels, conjunctive use), hydroelectric and environmental projects  
1983 to 1988: Teaching assistant, UC Davis Geology Department; Courses T.A.'d include field geology, structural geology, tectonics, mineralogy, optical mineralogy, metamorphic petrology and igneous petrology  
1981 to 1982: Geologist, Geotechnical Consultants Inc., San Francisco, CA. Performed geologic mapping, core logging, petrographic analysis of Franciscan Complex rocks in San Francisco as part of geotechnical study for a cross-town sewer tunnel.  
1980: Geologist, Union Carbide Corporation, Grand Junction, CO and Missoula, MT. Performed geochemical, geophysical studies and geologic prospecting for hard rock uranium deposits in Colorado and Montana.

### CLASSES TAUGHT

**UC Berkeley:** Structural Geology (EPS 116) 1998, Field trip course (EPS 119) 2005  
**CSU Hayward/East Bay:** Graduate course on Evolution of San Andreas Fault System 1996, Structural Geology (Geol 3810) 1998, 1999  
**CSU FRESNO (2005-2020).** Fall Semesters: EES 1 Natural Disasters/Introductory Geology; EES 106 Structural Geology; and one of: EES 210 Faults and Earthquakes (Seismic Hazard Analysis) odd-numbered years then even-numbered from 2018; EES 3 Geologic Field Trip (3 times); EES 250T Graduate Topics Courses (Tectonics of Orogenic Belts; Subduction Zone Geology and Tectonics; North American Cordilleran Tectonics). Spring Semesters: EES 1; EES 105 Geomorphology; EES 107 Advanced Field Methods. EES 3 Geologic field trip (twice). EES 101 Petrology (Spring 2008, 2016). Other courses taught: EES 50 Geology of Local National Parks (Fall Semesters 2009-2012).

### GRADUATE STUDENT AND SENIOR THESIS SUPERVISION (List of students advised)

Ph.D. (joint advisorship) Graduated (1): Jun Luo (2015) Chinese Academy of Sciences, Beijing (co-advisor with Wenjiao Xiao)

Ph.D. (thesis committee). Graduated (3): Derya Güner (2017) University of Utrecht, Netherlands; Lauren Wheeler (2017), Dept. Earth and Planetary Sciences, Univ. New Mexico; David Shimabukuro(2011) Dept. Earth and Planetary Science, Univ. California Berkeley

M.S., Calif.State Univ. Fresno as thesis advisor: (2005-2020) Currently: Victoria Simoneau, Azael Salinas, Jamie Byrd. Graduated (10): Jessie Shields (2020); Sean Spencer (2019); Adam Inman (2018); Yvan Mendoza (2016), Dennis Eck (2014), Nobuaki Masutsubo (2013), Jennifer Jackson (2012), Chris Kemp (2012), Emily Fisher (2010), Chris Smart (2008)

M.S., Calif. State Univ. Fresno as thesis committee member but not advisor: (2005-2020) Currently: Ben Gooding, Bryan Rock, Oscar Smith. Graduated (20): Casey Polon (2020), Amalie Larsen (2020), Bryant Platt (2020), Alex Pytlak (2018), Christine Liu (2018), John Rarick (2018), Michelle Johnson (2017), Rosalie Schubert (2017), Dustin White (2016), Joe Canchola (2016), Paul Troop (2016), Kiersti Ford (2014), Chad Carlson (2012), Owen Kubit (2012), Anna Brody (2011), Doug DeFlicht (2010), Jorge Baca (2009), Rohit Sharma (2008), Sana Alsaoudi (2008), and Marlon Jean (2007).  
M.S. thesis committee member, exclusive of Calif. State Univ., Fresno: Vance Smith, Department of Geology, San Jose State University. Graduated (3): David Hart (2019) Department of Geology, California State University Sacramento, Ron Rubin (2002) Department of Geology, San Jose State University. Scott Dickerman (1999) Department of Geology, California State University, Hayward (now East Bay).  
Calif. State Univ. Fresno as undergraduate thesis advisor: (2005-2020) serving as undergraduate research advisor for Jordan Gist. Graduated (19): Bryce Matsumura, Joshua Marroquin, Steffany Aguilar Loeb, Kevin Loeb, John Tanner, Miguel Cisneros, Brian Hitz, Yvan Mendoza, Rachel Prohoroff, Chad Carlson, Jared Long, Joey Luce, Gary Smith, Barbara Jessup, Nick Smaira, Jerrod Lessel, Dillon Kass, Evalin Herleman and Donna Parkansky.

### **AWARDS/HONORS**

Progress in Earth and Planetary Science Most Cited Paper Award 2020, for Wakabayashi (2017b)  
Geological Society of Japan Island Arc Award 2020, for Wakabayashi (2017c)  
Richard H. Jahns Distinguished Lecturer in Applied Geology 2017-2018  
Elected as Fellow of the Geological Society of America, April 28, 2012.  
Keynote speaker, Geological Society of America Penrose Conference on the Central Asian Orogenic Belt, Urumqi, China, September 2011.  
Keynote speaker, International Conference on tectonics of strike-slip restraining and releasing bends in continental & oceanic settings (Geological Society of London, London, UK, Sept. 28-30, 2005)  
Visiting Professor, Pierre and Marie Curie University, Paris, France, May 2015  
Visiting Scholar, National Taiwan University & Dong-Hwa University, Taiwan March 2014  
Visiting Scholar, Centers of Excellence, Tohoku University, Sendai, Japan, May 2009.  
Recognized as Exceptional Reviewer for Lithosphere 2016, Geosphere 2015, for Geological Society of America Bulletin 2013, and for Geosphere 2013, and Outstanding Reviewer for the Geological Society of America Bulletin for 2006. Osozawa et al., (2013), on which I am 7th author, won the Entomological Society of Japan Best Paper Award for 2014.

### **SCIENTIFIC EDITORSHIP**

Associate Editor for Geological Society of America Bulletin 2004-2012 (39 papers handled, excluding revisions). Lead editor of book "Melanges: Processes of formation and societal significance": Geological Special Paper 480 (2011) (12 papers in volume). Lead guest editor of special issue of Lithosphere on subduction initiation and termination v. 4, no. 6 (2012) (8 papers in volume). Lead guest editor of special issue of International Geology Review, v. 57, no. 5-8. (2015) on convergent plate margin processes (23 papers in volume). Currently guest editor for a special issue of the Island Arc (2018), and lead editor of a Geological Society of America Special Paper.

### **SCIENTIFIC PEER REVIEW**

Reviewed manuscripts (papers reviewed 1994-2020: >269 excluding some reviews of revised versions previously reviewed) for the following journals (45 different journals): American Journal of Science, American Mineralogist, Bulletin of the Seismological Society of America, California Geological Survey (formerly California of Division of Mines and Geology) Special Publications and Maps, Canadian Journal of Earth Sciences, Contributions to Mineralogy and Petrology, Earth and Planetary Science Letters, Earth Science Reviews, Eclogae Geologicae Helveticae, Elements, Episodes, Frontiers in Earth Science, G-Cubed, Geological Magazine, Geology, Geological Society of America Bulletin, Geological Society of America Special Papers, Geological Society of America Map and Chart series, Geological Society of London Special Publication, Geoscience Frontiers, Geosphere, Gondwana Research, International Journal of Earth Sciences (formerly Geologische Rundschau), The Island Arc (Journal of the Geological Society of Japan), Journal of Asian Earth Sciences, Journal of the Geological Society of London, Journal of Geodynamics, Journal of Geology, Journal of Geophysical Research, Journal of Metamorphic Geology, Journal of Structural Geology, Lithos, Lithosphere, Marine Geology, Mineralogy and Petrology, Nature, Nature Geoscience, Precambrian Research, Proceedings of the National Academy of Sciences (PNAS), Revista Geologica de Chile, Science, Scientific Reports, Solid Earth, Tectonics, Tectonophysics, and a book on Western Pacific Subduction Complexes published by Springer.

Reviewed grant proposals for:

USA-based organizations: Four different National Science Foundation (NSF) Earth Science programs (Structure & Tectonics, Petrology and Geochemistry, Deep Earth Processes, and ODP/IODP), the Petroleum Research Fund, and National Earthquake Hazard Reduction Program (NEHRP-as ad hoc reviewer in 1990s).

Non-USA based organizations: British Council, Austrian National Science Fund FWF, China State Natural Science Award, National Fund for Scientific and Technological Research of Chile (FONDECYT).

Reviewed lay persons' geology book for University of California Press a chapter of a book on serpentine soils, and a lay persons' books on the geology of Mt Lassen National Park, and geology of California

Served on NEHRP Inter Mountain West Region proposal review panel Aug. 2015 & August 2016.

### **PUBLICATIONS (\*denotes student advisee at time research was conducted)**

91. Wakabayashi, J., in press, Field and petrographic reconnaissance of Franciscan Complex rocks of Mount Diablo, California: Imbricated ocean floor stratigraphy with a roof exhumation fault system: Geological Society of America Memoir

90. Anderson, R., Anderson, M., Barry, T., Beswick, M., Bonds, C., Conway, M., Dennis, C., Fraser, W.A., Gius, F., Hess, J., Hilton, R., Manke, J., Maurath, G., Moores, E.M., O'Neal, M., Parrish, K., Pinter, N., Shlemon, R.J., Testa, S., Unruh, J., Wakabayashi, J., and Zorne, J., 2020 Geology of Sacramento, California, United States of America. Geology of Cities of the World Series. Association of Environmental and Engineering Geologists. 332 pp.
89. Wakabayashi, J., 2020, Clastic sedimentary rocks and sedimentary mélanges: Potential NOA Occurrences (Amphibole and Serpentine): Environmental & Engineering Geoscience, v.XXVI, p. 15-19, doi: 10.2113/EEG-2267
88. Luo, J.\*, Wakabayashi, J., He, Z., Yun, J., Liu, Q., Li, T., Song, H., and Xiao, W., 2019, An upper crustal ophiolite remnant within the Feather River ultramafic belt, California: Tectonomagmatic origins and implications for its evolution: Journal of Earth Science, v. 30, p. 763-774.
87. Osozawa, S., Usuki, T., Usuki, M., Wakabayashi, J., and Jahn, B-m., 2019, Trace elemental and Sr-Nd-Hf isotopic compositions, and U-Pb ages for the Kitakami adakitic plutons: Insights into interactions with the earth Cretaceous TRT triple junction offshore Japan: Journal of Asian Earth Sciences, v.184, doi:10.1016/j.jseae.2019.103968
86. Wakabayashi, J., 2019, Sedimentary compared to tectonically-deformed serpentinites and tectonic serpentinite mélanges at outcrop to petrographic scales: Unambiguous and disputed examples from California: Gondwana Research, v. 74, p. 51-67, doi: 10.1016/j.gr.2019.04.005
85. Yamamoto, H., Wakabayashi, J., Umino, S., Terabayashi, M., Okamoto, K., Rehman, H. U., 2018, Preface to thematic Section: Orogenic processes in island arcs: subduction, accretion, collision and recycling. Island Arc, v.28 issue 2. doi: 10.1111/iar.12292.
84. Kuiper, Y. D., and Wakabayashi, J., 2018, A comparison between mid-Paleozoic New England, USA, and the modern western USA: subduction of an ocean ridge-transform fault system: Tectonophysics, v. 745, p. 278-292
83. Zhang, J.; Xiao, W.; Windley, B.F; Wakabayashi, J.; Cai, F.;Sein, K; Wu, H.; and Naing, S., 2018, Multiple alternating forearc- and backarc-ward migration of magmatism in the Indo-Myanmar Orogenic Belt since the Jurassic: Documentation of orogenic architecture of eastern Neotethys in SE Asia: Earth Science Reviews, v. 185, p. 704-731.
82. Osozawa, S., Sato, F., and Wakabayashi, J., 2017, Quaternary vicariance of lotic *Coeliccia* in the Ryukyu-Taiwan islands contrasted with lentic *Copera*: Journal of Heredity, v. 108, p. 280-287 doi:10.1093/jhered/esx007
81. Osozawa, S., Takahashi, M., and Wakabayashi, J., 2017, Quaternary vicariance of *Ypthima* butterflies (Lepidoptera, Nymphalidae, Satyrinap. 592-602e) and systematics in the Ryukyu islands and Oriental region. Zoological Journal of the Linnean Society v. 180, p. 593-602
80. Wakabayashi, J., 2017c, Serpentinites and serpentinites: Variety of origins and emplacement mechanisms of serpentinite bodies in the California Cordillera: Island Arc, v. 26, issue 5. doi: 10.1111/iar. 12205
79. Osozawa, S., Shiyake, S., and Wakabayashi, J., 2017, Quaternary vicariance of *Platypleura* (Hemiptera: Cicadidae) in Japan, Ryukyu, and Taiwan islands: Biological Journal of the Linnean Society, v. 121, p. 185-199
78. Osozawa, S., and Wakabayashi, J., 2017, Variety of origins and exhumation histories of Sambagawa eclogite interpreted through the veil of extensive structural and metamorphic overprinting: in Bianchini, G., Bodinier, J.-L., Braga, R., and Wilson, M., Eds., The Crust-Mantle and Lithosphere-Asthenosphere Boundaries: Insights from Xenoliths, Orogenic Deep Sections and Geophysical Studies. Geological Society of America Special Paper 526, p. 49-71, doi: 10.1130/2016.2526(03).
77. Wakabayashi, J., 2017b, Structural context and variation ocean plate stratigraphy, Franciscan Complex of California: Insight into mélange origins and subduction-accretion processes: Progress in Earth and Planetary Science 4: 18, 23p., doi: 10.1186/s40645-017-0132-y
76. Luo, J.\*, Xiao, W., Wakabayashi, J., Han, C., Zhang, J., Wan, B., Ao, S., Zhang, Z., Tian, Z., Song, D., and Chen, Y., 2017, The Zhaheba ophiolite complex in Eastern Junggar (NW China): Long lived supra-subduction zone ocean crust formation and its implications for the tectonic evolution of the southern Altai. Gondwana Research, v. 43, p.17-40. doi.10.1016/j. gr. 2015.04.004
75. Wakabayashi, J., 2017a, Sedimentary serpentinite and chaotic units of the lower Great Valley Group forearc basin deposits, California: Updates on distribution and characteristics: International Geology Review, v. 59, p. 599-620. doi.10.1080/00206814.2016.1219679
74. Osozawa, S., Fukuda, H., Kwon, H-Y., Wakabayashi, J., 2016, Quaternary vicariance of *Cicindela* (tiger beetle) in Ryukyu, Japan, Taiwan, Korea- China: Entomological Research, v. 46, 122-127. doi: 10.1111/1748-5967.12156
73. Dumitru, T.A., Elder, W.P., Hourigan, J.K., Chapman, A.D., Graham, S.A., and Wakabayashi, J., 2016, Four Cordilleran paleorivers that connected Sevier thrust zones in Idaho to depocenters in California, Washington, Wyoming, and, indirectly, Alaska: Geology, v. 44, p. 75-78, doi: 11.1130/G37286.
72. Osozawa, K., Ogino, S., Osozawa, S., and Wakabayashi, J., 2016, Carabid beetles (*Carabus blaptoides*) from Nii-jima and O-shima isles, Izu-Bonin oceanic islands: Dispersion by Kuroshio current and the origin of the insular populations., Insect Systematics & Evolution, v. 47, p. 1-16.
71. Osozawa, S., Oba, Y., Kwon, H-Y., and Wakabayashi, J., 2015, Vicariance of *Pyrocoelia* (Lampyridae; firefly) in the Ryukyu islands, Japan. Biological Journal of the Linnean Society, v. 116, p. 412-422
70. Osozawa, S., and Wakabayashi, J., 2015, Killer typhoons began to impact the Japanese islands from ca. 1.55 Ma based on phylogeography of *Chlorogomphus* (gliding dragonfly): Journal of Earth Science & Climatic Change S3 003 doi: 10.4172/2157-7617. S3-003
69. Osozawa, S., Voung, N., Tich, V., and Wakabayashi, J., 2015, Reactivation of a collisional suture by Miocene transpressional domes associated with the Red River and Song Chay detachment faults, northern Vietnam: Journal of Asian Earth Sciences, v. 105, p. 252-269. doi:10.1016/j.jseae.2015.01.006
68. Osozawa, S., Takahashi, M., and Wakabayashi, J., 2015, Ryukyu endemic *Mycalasis* butterflies speciated vicariantly due to isolation of the islands since 1.55 Ma. Lepidoptera Science, v. 66, p.8-14
67. Osozawa, S., and Wakabayashi, J., 2015, Late-stage exhumation and deformation of HP metamorphic rocks, progressive localization of strain, and changes in movement direction, Sambagawa belt, Japan. Journal of Structural Geology. v. 75, p. 1-16. doi: 10.1016/j.jsg.2015.03.006.

66. [Wakabayashi, J.](#), Tsujimori, T., Ogawa, Y., and Shervais, J., 2015, Convergent Plate Margin Processes and Their Rock Record: Introduction to the Special Volume. *International Geology Review*. v. 57, p.v-ix. doi: 10.1080/00206814.2015.1026415
65. [Wakabayashi, J.](#) and Rowe, C., 2015, Whither the megathrust? Localization of large-scale subduction slip along a contact of a mélangé. *International Geology Review*. v. 57, p. 854-870. doi:10.1080/00206814.2015.1020453
64. [Wakabayashi, J.](#), 2015, Anatomy of a subduction complex: Architecture of the Franciscan Complex, California, at multiple length and time scales: *International Geology Review*, v. 57, p. 669-746. doi:10.1080/00206814.2014.998728.
63. Ghatak, A., Basu, A.R., and [Wakabayashi, J.](#), 2013, Implications of Franciscan Complex greywacke geochemistry for sediment transport, provenance determination, burial-exposure duration, and chemical exchange with co-subducted metabasites: *Tectonics*, v. 32, p. 1480-1492. doi: 10.1002/tect.20078.
62. Osozawa, S., Okamoto, T., Su, Z.-H., Oba, Y., Yagi, T., Watanabe, Y., and [Wakabayashi, J.](#), 2013, Vicariant speciation due to 1.55 Ma isolation of the islands of Ryukyu, Japan, based on geologic and GenBank data: *Entomological Science*, v. 16, p. 267-277, doi:10.1111/ens.12037
61. [Wakabayashi, J.](#), 2013, Subduction initiation, accretion and non-accretion, large-scale material movement, and localization of subduction megaslip, Franciscan Complex and related rocks, California: in Putirka, K., ed. *Geological Excursions from Fresno, California, and the Central Valley: A Tour of California's Iconic Geology*, Geological Society of America Field Guide 32, p. 129-162, doi: 10.1130/2013.0032(07)
60. Kusky, T.M., Windley, B.F., Safonova, I., Wakita, K., [Wakabayashi, J.](#), Polat, A., and Santosh, M., 2013, Recognition of oceanic plate stratigraphy in accretionary orogens through Earth history: A record of 3.8 billion years of sea floor spreading, subduction, and accretion: *Gondwana Research*, v. 24, p. 501-547, doi 10.1016/j.gr.2013.01.004
59. [Wakabayashi, J.](#), 2013, Paleochannels, stream incision, erosion, topographic evolution, and alternative explanations of paleoaltimetry, Sierra Nevada, California: *Geosphere*, v. 9, p. 192-215, doi:10.1130/GES00814.1
58. [Wakabayashi, J.](#) and Shervais, J., 2012, Introduction: Initiation and Termination of Subduction: Rock Record: Geodynamic Models, and Modern Plate Boundaries: *Lithosphere*, v. 4, p. 467-468. Doi: 10.1130/LINT1.1
57. Shimabukuro\*, D.H., [Wakabayashi, J.](#), Alvarez, W., and Chang, S.-c., 2012, Cold and old: The rock record of subduction initiation beneath a continental margin, Calabria, southern Italy. *Lithosphere*, v. 4, p. 524-532. doi: 10.1130/L222.1
56. Osozawa, S., Shinjo, R., Lo, C.-H., Jahn, B.-m. , Hoang, N., Sasaki, M., Ishikawa, K., Kano, H., Hoshi, H., Xenophontos, C., and [Wakabayashi, J.](#), 2012, Geochemistry and geochronology of the Troodos ophiolite: An SSZ ophiolite generated by subduction initiation and an extended episode of ridge subduction?. *Lithosphere*, v. 4, p. 497-510. doi: 10.1130/L205.1
55. Osozawa, S., Tsai, C.-H., and [Wakabayashi, J.](#), 2012, Folding of granite and Cretaceous exhumation associated with regional-scale flexural slip folding and ridge subduction, Kitakami zone, northeast Japan: *Journal of Asian Earth Sciences*, v. 59, p.85-98, doi: 10.1016/j.jseaes.2012.05.023
54. Osozawa, S., and [Wakabayashi, J.](#), 2012, Exhumation of Triassic HP-LT rocks by upright extrusional domes and overlying detachment faults, Ishigaki-jima, Ryukyu Islands: *Journal of Asian Earth Sciences*, v. 59, p. 70-84 doi:10.1016/j.jseaes.2012.04.001.
53. Prohoroff\*, R.E., [Wakabayashi, J.](#), and Dumitru, T.A., 2012, Sandstone-matrix olistostrome deposited on intra-subduction complex serpentinite, Franciscan Complex, western Marin County, California: *Tectonophysics* v. 568-569, p. 296-305. doi: 10.1016/j.tecto.2012.05.018
52. Hitz\*, B., and [Wakabayashi, J.](#), 2012, Unmetamorphosed sedimentary mélangé with high-pressure metamorphic blocks in a nascent forearc basin setting: *Tectonophysics*. v. 568-569, p. 124-134. doi: 10.1016/j.tecto.2011.12.006
51. [Wakabayashi, J.](#), 2012, Subducted sedimentary serpentinite mélanges: Record of multiple burial-exhumation cycles and subduction erosion: *Tectonophysics*, v. 568-569, p. 230-247. doi: 10.1016/j.tecto.2011.11.006
50. Osozawa, S., Shinjo, R., Armid, A., Watanabe, Y., Horiguchi, T., and [Wakabayashi, J.](#), 2012, Paleogeographic reconstruction of the 1.55 Ma synchronous isolation of the Ryukyu Islands, Japan, and Taiwan and the inflow of the Kuroshio warm current: *International Geology Review*, v. 54. p. 1369-1388.. doi: 10.1080/00206814.2011.639954
49. Ghatak, A., Basu, A.R., and [Wakabayashi, J.](#), 2012, Element mobility in Subduction metamorphism: Insight from metamorphic rocks of the Franciscan Complex and Feather River ultramafic belt, California: *International Geology Review*, v. 54, p. 654-685, doi.10.1080/00206814.2011.567087
48. [Wakabayashi, J.](#), and Dilek, Y., 2011, Editors, Mélanges: Processes of Formation and Societal Significance, Geological Society of America Special Paper 480, doi : 10.1130/2011.2480, 277 pp.
47. [Wakabayashi, J.](#), 2011, Mélanges of the Franciscan Complex, California: Diverse structural setting, evidence for sedimentary mixing, and their connection to subduction processes: in [Wakabayashi, J.](#), and Dilek, Y. eds. *Mélanges: Processes of Formation and Societal Significance*, Geological Society of America Special Paper 480, p.117-141. doi: 10.1130/2011.2480(05)
46. [Wakabayashi, J.](#), and Dilek, Y., 2011, Introduction: Characteristics and tectonic settings of mélanges, and their significance for societal and engineering problems: in [Wakabayashi, J.](#), and Dilek, Y. eds. *Mélanges: Processes of Formation and Societal Significance*, Geological Society of America Special Paper 480, p.v-x. doi: 10.1130/2011.2480(00)
45. Dumitru, T.A., [Wakabayashi, J.](#), Wright, J.E., and Wooden, J.L., 2010, Early Cretaceous (ca. 123 Ma) transition from nonaccretion to voluminous sediment accretion within the Franciscan subduction complex: *Tectonics*, v. 29, TC5001, doi: 10.1029/2009TC882542
44. [Wakabayashi, J.](#), Ghatak, A., and Basu, A.R., 2010, Tectonic setting of supra subduction zone ophiolite generation and subduction initiation as revealed through geochemistry and regional field relationships: *Geological Society of America Bulletin*, v. 122, p. 1548-1568 doi: 10.1130/B30017.1
43. Snow, C.A., [Wakabayashi, J.](#), Ernst, W.G., and Wooden, J.L., 2010, SHRIMP-based depositional ages of Franciscan metagraywackes, west-central California: *Geological Society of America*, v. 122, p. 282-291; doi:10.1130/B26399.1

42. Smart\*, C.M., and Wakabayashi, J., 2009, Hot and deep: Rock record of subduction initiation and exhumation of high-temperature, high-pressure metamorphic rocks, Feather River ultramafic belt, California: *Lithos*, v. 113, p. 292-305, doi:10.1016/j.lithos.2009.06.012
41. Wakabayashi, J., 2008, Franciscan Complex, California: Problems in recognition of melanges, and the gap between research knowledge and professional practice: Proceedings of the 2008 Conference of the American Rock Mechanics Association, San Francisco (published online): available at <http://www.onepetro.org/mslib/app/Preview.do?paperNumber=ARMA-08-357&societyCode=ARMA>
40. Wakabayashi, J., and Dumitru, T.A., 2007, 40Ar/39Ar ages from coherent high-pressure metamorphic rocks of the Franciscan Complex, California: Revisiting the timing of metamorphism of the world's type subduction complex: *International Geology Review*, v. 49, p. 873-906.
39. Wakabayashi, J., 2007, Step-overs that migrate with respect to affected deposits: Field characteristics and speculation on some details of their evolution: in Cunningham, W.D., and Mann, P., eds. *Tectonics of strike-slip releasing and restraining bends in continental and oceanic settings*. Geological Society of London Special Publication 290, p. 169-188.
38. Tsujimori, T., Matsumoto, K., Wakabayashi, J., and Liou, J.G., 2006, Franciscan eclogite revisited: Reevaluation of P-T evolution of tectonic blocks from Tiburon Peninsula, California, USA: *Mineralogy and Petrology*, v. 88, p. 243-267.
37. Moores, E.M., Wakabayashi, J., Unruh, J.R., and Waechter, S., 2006, A transect spanning 500 million years of active plate margin history: Outline and field trip guide: in Prentice, C.S., Scotchmoor, J.G., Moores, E.M., and Kiland, J.P., eds., 1906 San Francisco Earthquake Centennial Field Trip Guides: Field trips associated with the 100th Anniversary Conference, 18-23 April 2006, San Francisco, CA: Geological Society of America Field Trip Guide 7, p.373-413; doi: 10.1130/2006.1906SF(20).
36. Saha, A., Basu, A.R., Wakabayashi, J., and Wortman, G.L., 2005, Geochemical evidence for subducted nascent arc from Franciscan high-grade tectonic blocks: *Geological Society of America Bulletin*, v. 117, p. 1318-1335.
35. Wakabayashi, J., 2005, Franciscan Complex and Coast Range Ophiolite, eastern margin of San Francisco Bay, California: Major components of the former convergent plate boundary: in Stevens, C., and Cooper, J., eds. *Mesozoic tectonic assembly of California Pacific Section*, SEPM, Book 96, p. 1-20.
34. Wakabayashi, J., 2004 Contrasting settings of serpentinite bodies, San Francisco Bay area, California: Derivation from the subducting plate vs. mantle hanging wall: *International Geology Review*, v. 46, p. 1103-1118.
33. Wakabayashi, J., and Medley, E.W., 2004, Geological characterization of melanges for practitioners: *Felsbau* v. 22, no. 5, p. 10-18.
32. Wakabayashi, J., 2004, Tectonic mechanisms associated with P-T paths of regional metamorphism: alternatives to single-cycle thrusting and heating: *Tectonophysics*, v. 392, p. 193-218.
31. Wakabayashi, J., Hengesh, J.V., and Sawyer, T.L., 2004, Four-dimensional transform fault processes: progressive evolution of step-overs and bends: *Tectonophysics*, v. 392, p. 279-301.
30. Anczkiewicz, R., Platt, J.P., Thirlwall, M.F., and Wakabayashi, J., 2004, Franciscan subduction off to slow start: Evidence from high-precision Lu-Hf garnet ages on high-grade blocks: *Earth and Planetary Science Letters*, v. 225, p. 147-161
29. Harrison, S., Safford, H., and Wakabayashi, J., 2004, Does age of exposure of serpentine explain variation in endemic plant diversity in California? *International Geology Review*, v. 46, p. 235-242.
28. Wakabayashi, J., and Dilek, Y., 2003, What constitutes "emplacement" of an ophiolite?: mechanisms and relationship to subduction initiation and formation of metamorphic soles: in Dilek, Y., and Robinson, P.T., eds., *Ophiolites in Earth history*, Geological Society of London Special Publication 218, p. 427-447.
27. Moores, E.M., Wakabayashi, J., and Unruh, J.R., 2002, Crustal scale cross-section of the US Cordillera, California and beyond, its tectonic significance, and speculations on the Andean orogeny: *International Geology Review*, v. 44, p. 479-500
26. Wakabayashi, J., and Sawyer, T.L., 2001, Stream incision, tectonics, uplift, and evolution of topography of the Sierra Nevada, California: *Journal of Geology*, v. 109, p. 539-562.
25. Wakabayashi, J., and Dilek, Y., 2000, Spatial and temporal relations between ophiolites and their subophiolitic soles: A test of models of forearc ophiolite genesis: in Dilek, Y., Moores, E.M., Elthon, D., and Nicolas, A., eds., *Ophiolites and oceanic crust: New insights from field studies and ocean drilling*, Geological Society of America Special Paper 349, p. 53-64.
24. Wakabayashi, J., and Sawyer, T.L., 2000, Neotectonics of the Sierra Nevada and the Sierra Nevada-Basin and Range Transition, California, with field trip stop descriptions for the northeastern Sierra Nevada: in Brooks, E.R., and Dida, L.T., eds., *Field guide to the geology and tectonics of the northern Sierra Nevada*, California Division of Mines and Geology Special Publication 122, p. 173-212.
23. Wakabayashi, J., 1999, Distribution of displacement on, and evolution of, a young transform fault system: the northern San Andreas fault system, California: *Tectonics*, v. 18, no. 6, p. 1245-1274
22. Wakabayashi, J., 1999, The Franciscan Complex, San Francisco Bay area: A record of subduction processes: in Wagner, D.L., and Graham, S. A., eds. *Geologic field trips in northern California*, California Division of Mines and Geology Special Publication 119, p. 1-21.
21. Wakabayashi, J., 1999, Subduction and the rock record: Concepts developed in the Franciscan Complex, California: in Sloan, D., Moores, E.M., and Stout, D. eds., *Classic Cordilleran Concepts: A View From California*, Geological Society of America Special Paper 338, p. 123-133.
20. Moores, E.M., Dilek, Y., and Wakabayashi, J., 1999, California terranes: in Sloan, D., Moores, E.M., and Stout, D. eds., *Classic Cordilleran Concepts: A View From California*, Geological Society of America Special Paper 338, p. 227-234.
19. Wakabayashi, J., and Sawyer, T.L., 1998, Paleoseismic investigation of the Miller Creek fault, eastern San Francisco Bay area, California: Final Technical Report, U.S. Geological Survey National Earthquake Hazards Reduction Program Fiscal Year 1997, Award No. 1434-HQ-97-GR-03141.

18. Wakabayashi, J., 1996, Tectono-metamorphic impact of a subduction-transform transition and implications for interpretation of orogenic belts: *International Geology Review*, v.38, p. 979-994.
17. Working Group on Northern California Earthquake Potential (Wakabayashi is one of 29 members), 1996, Database of potential sources for earthquakes larger than magnitude 6 in northern California: U.S. Geological Survey Open File Report 96-705, 53pp.
16. Buising, A.V., and Wakabayashi, J., 1996, Late Cenozoic structures between San Leandro Reservoir and Dublin Canyon, eastern San Francisco Bay area, California: in Jayko, A.S., and Lewis, S.D., compilers, *Toward Assessing the Seismic Risk Associated with Blind Thrust Faults*: U.S. Geological Survey Open File Report 96-267, p. 119-126.
15. Hengesh, J.V., Wakabayashi, J., and Nolan, J.M., 1996, Paleoseismic investigation of the Serra fault, San Francisco peninsula, California: Final Technical Report, U.S. Geological Survey National Earthquake Hazards Reduction Program Fiscal Year 1995, Award No. 1434-95-G-2549
14. Wakabayashi, J., and Hengesh, J.V., 1995, Distribution of late Cenozoic displacement on the San Andreas fault system, northern California: in Sangines, E.M., Andersen, D.W., and Buising, A.W., eds., *Recent geologic studies in the San Francisco Bay Area, Pacific Section, SEPM (Society for Sedimentary Geology)*, Book. 76, p.19-30
13. Hengesh, J.V., and Wakabayashi, J., 1995, Dextral translation and progressive emergence of the Pleistocene Merced basin and implications for timing of initiation of the San Francisco Peninsula segment of the San Andreas fault: in Sangines, E.M., Andersen, D.W., and Buising, A.W., eds., *Recent geologic studies in the San Francisco Bay Area, Pacific Section, SEPM (Society for Sedimentary Geology)*, Book 76, p.47-54
12. Wakabayashi, J., and Unruh, J.R., 1995, Tectonic wedging, blueschist metamorphism, and exposure of blueschist: are they compatible?: *Geology*, v. 23, p. 85-88
11. Hengesh, J.V., and Wakabayashi, J., 1995, Quaternary deformation between Coyote Point and Lake Merced on the San Francisco peninsula: Implications for evolution of the San Andreas fault: Final Technical Report, U.S. Geological Survey National Earthquake Hazards Reduction Program Fiscal Year 1994, Award No. 1434-94-G-2426
10. Wakabayashi, J., and Smith, D.L., 1994, Evaluation of recurrence intervals, characteristic earthquakes and slip rates associated with thrusting along the Coast Range-Central Valley geomorphic boundary, California: *Bulletin of the Seismological Society of America*, v. 84, p.1960-1970
9. Wakabayashi, J., Smith, D. L., and Hamilton, D. H., 1992, The Miller Creek Fault and related structures: Neogene kinematics of a potentially active thrust system in the East Bay Hills, California: in Borchardt, G., ed., *Proceedings of the 2nd Conference on Earthquake Hazards in the eastern San Francisco Bay Area*, Calif. Div. Mines and Geology Special Publication 113, p. 345-354.
8. Volpe, R. L., Kissick, C. M., and Wakabayashi, J., 1992, Seismic hazard in the Sacramento-San Joaquin Delta Region, California: insight from probabilistic seismic risk analyses: in Borchardt, G., ed., *Proceedings of the 2nd Conference on Earthquake Hazards in the eastern San Francisco Bay Area*, Calif. Div. Mines and Geology Special Publication 113, p. 525-534.
7. Wakabayashi, J., 1992, Metamorphism and tectonic origin of Franciscan metabasites and a field trip guide to three localities in the San Francisco Bay area: in Schiffman, P., and Wagner, D. L., eds., *Field Guide to the Geology and Metamorphism of the Franciscan Complex and Western Metamorphic Belt of Northern California*, Calif. Div. Mines and Geology Special Publication 114, p. 1-11.
6. Wakabayashi, J., 1992, Nappes, tectonics of oblique plate convergence, and metamorphic evolution related to 140 million years of continuous subduction, Franciscan Complex, California: *Journal of Geology*, v. 100, p. 19-40
5. Wakabayashi, J., 1990, Counterclockwise P-T-t paths from amphibolites, Franciscan Complex, California: metamorphism during the early stages of subduction: *Journal of Geology*, v. 98, p. 657-680.
4. Harper, G. D., Grady, K., and Wakabayashi, J., 1990, A structural study of a metamorphic sole beneath the Josephine ophiolite, western Klamath terrane, California-Oregon: *Geol. Soc. Amer. Special Paper 255*, p. 379-396.
3. Wahrhaftig, C. and Wakabayashi, J., 1989, The Franciscan Complex: introduction & The Franciscan Complex: tectonostratigraphic terranes & The Franciscan Complex: Basalts: in Wahrhaftig, C. and Sloan, D., eds. *Geology of San Francisco and vicinity: Int. Geol. Congress Field Trip Guide T105*, p. 5-6 & p. 6-8 & p.9
2. Wakabayashi, J., 1989, Baker Beach amphibolite & Ring Mtn. amphibolites: Counterclockwise P-T paths in Franciscan amphibolites: in Wahrhaftig, C. and Sloan, D., eds. *Geology of San Francisco and vicinity: Int. Geol. Congress Field Trip Guide T105*, p. 42-44 & p. 45-46.
1. Wakabayashi, J., and Moores, E. M., 1988, Evidence for the collision of the Salinian Block with the Franciscan subduction zone: *Journal of Geology*, v. 96, p. 245-253.

**SELECTED ABSTRACTS (asterisks \*)= student advisee  
(excludes multiple international abstracts as jr. author for which I do not have specific  
information)**

125. Kirkpatrick, J.D., Bentley, C., Blisniuk, K., Rowe, C.D., and Wakabayashi, J., 2019, Revitalizing the classic "Streetcar to Subduction" field guide to the San Francisco area via Google Earth: American Geophysical Union Fall Meeting Abstracts T23F-0442
124. Sowers, T., Hankins, R., Rack, S., Shimabukuro, D., Skinner, S.M., Wakabayashi, J., and Cecil, R., 2019, Thermal evolution of northern Salinia using apatite and zircon (U-Th)/He thermochronology: American Geophysical Union Fall Meeting Abstracts T22D-08
123. Shields, J.E., \*, and Wakabayashi, J., 2019b, Mixed igneous origin and peak metamorphic pressure and temperature conditions of blocks in a mélange: Possible evidence for sedimentary mixing: American Geophysical Union Fall Meeting Abstracts V43E-0130
122. Wakabayashi, J. 2019g, A personal recollection of Eldridge Moores as a giant in tectonics research and mentor: American Geophysical Union Fall Meeting Abstracts T24A-08

121. [Wakabayashi, J.](#), 2019f, Franciscan Complex at Mount Diablo California: A progress report: American Geophysical Union Fall Meeting Abstracts T23F-0445
120. [Wakabayashi, J.](#), 2019e, Geology of the San Francisco Bay Area: A record of subduction, transform, and transitional processes: American Geophysical Union Fall Meeting Abstracts T22D-01
119. Bentley, C., Blisniuk, K., Kirkpatrick, J., Rowe, C.D., and [Wakabayashi, J.](#), 2019, Revitalizing the classic "Streetcar to Subduction" field guide via Google Earth: Geological Society of America Abstracts with Programs, v. 51, no. 5, doi: 10.1130/abs/2019AM-333344
118. Zhang, J., Xiao, W., [Wakabayashi, J.](#), and Cai, F., 2019, An Early Cretaceous trench-plume interaction in southern Tibet: Understanding complicated orogenic process in global tectonics: Geological Society of America Abstracts with Programs, v. 51, no. 5, doi: 10.1130/abs/2019AM-339186
117. Shields, J.\* and [Wakabayashi, J.](#), 2019a, Geochemical variation within blocks-in-mélange as a possible evidence for sedimentary formation of a mélange exposed at Ring Mountain, Franciscan Complex, California: Geological Society of America Abstracts with Programs, v. 51, no. 5, doi: 10.1130/abs/2019AM-340455
116. [Wakabayashi, J.](#), 2019d, Initiation and evolution of a transform plate boundary: One slab window becomes two, migrating transpression-transform progression, shuffling by multiple faults strands. Geological Society of America Abstracts with Programs, v. 51, no. 5, doi: 10.1130/abs/2019AM-3339829
115. [Wakabayashi, J.](#), 2019c, Subduction interface processes at depths of 10-30+ km inferred from field geology of exhumed rocks: Evidence for localization of slip associated with subduction and exhumation: Geological Society of America Abstracts with Programs, v. 51, no. 5, doi: 10.1130/abs/2019AM-341148
114. [Wakabayashi, J.](#), 2019b, Eldridge Moores as a visionary researcher in tectonics and mentor: A personal perspective: Geological Society of America Abstracts with Programs, v. 51, no. 5, doi: 10.1130/abs/2019AM-340627
113. Rivas Meraz, E., Steinert, T., Weinman, B., and [Wakabayashi, J.](#), 2019, Fractionation of Rare Earth Elements during soil formation along Feather River basin hill slopes in the California Sierra Nevada: Geological Society of America Abstracts with Programs, v. 51, no. 4, ISSN 0016-7592, doi: 10.1130/abs/2019CD-329694
112. [Wakabayashi, J.](#), 2019a, Franciscan Complex and bounding faults, Mount Diablo, California: Imbricated ocean plate stratigraphy with Coast Range Fault folded in south-vergent overturned anticline: Geological Society of America Abstracts with Programs, v. 51, no. 4, ISSN 0016-7592, doi: 10.1130/abs/2019CD-329202
111. Zhang, J., Xiao, W., Chen, Y., [Wakabayashi, J.](#), and Windley, B.F., 2018, Silurian-Devonian interaction of sub-parallel spreading ridge and trench in the western Junggar and north Tianshan, NW China: Implication for the Middle Paleozoic orogenic architecture of the western Altaids. Geological Society of America Abstracts with Programs, v. 50, no.6, doi: 10.1130/abs/2018AM-325117
110. Shields, J., and [Wakabayashi, J.](#), 2018, Evaluating the range of peak pressure and temperature conditions within a single mélange: Geological Society of America Abstracts with Programs, v. 50, no.6, doi: 10.1130/abs/2018AM-324859
109. [Wakabayashi, J.](#), and Shimabukuro, D., 2018, Hot and cold subduction initiation: Geological Society of America Abstracts with Programs, v. 50, no.6, doi: 10.1130/abs/2018AM-324829
108. [Wakabayashi, J.](#), 2018, Not so random: systematics of mapping mélange: Geological Society of America Abstracts with Programs, v. 50, no.6; doi: 10.1130/abs/2018AM-315170
107. [Wakabayashi, J.](#), 2018, Clastic sedimentary rocks and sedimentary mélanges: Newly recognized NOA occurrences (Amphibole and Serpentine). IAEG 2018 abstracts.
106. [Wakabayashi, J.](#), 2018, Insight into Geologic Mapping of Mélanges: Implications for Engineering Geologic Investigations. IAEG 2018 abstracts.
105. [Wakabayashi, J.](#), 2017, Sedimentary compared to tectonic serpentinite mélanges and blocks of one type of mélange in another: Coastal California examples: Geological Society of America Abstracts with Programs, v. 49, no. 6, doi 10.1130/abs/2017AM-303241
104. Shields, J.E.\* and [Wakabayashi, J.](#), 2017, Large range of metamorphic conditions recorded in blocks of a single mélange zone: An example from the Franciscan Complex of California: Geological Society of America Abstracts with Programs, v. 49, no. 6, doi 10.1130/abs/2017AM-304993
103. Kuiper, Y.D., and [Wakabayashi, J.](#), 2017, A detailed comparison between Mid-Paleozoic New England and Late Cenozoic Coastal California: Subduction of an oceanic ridge-transform system: Geological Society of America Abstracts with Programs, v. 49, no. 6, doi 10.1130/abs/2017AM-300315.
102. [Wakabayashi, J.](#), 2017, Tectonic versus sedimentary mélanges, mélanges within mélanges, and megathrust slip accommodation within subduction complexes: 2017 GAC-MAC annual meeting, Kingston, Ontario, Canada, Abstract No. 314.
101. [Wakabayashi, J.](#), 2016d, Along-strike variation from net accretion to subduction erosion, and in thermal history, along an exhumed subduction complex, western California: EOS Fall Meeting Supplement, Abstract T51I-02.
100. [Wakabayashi, J.](#), 2016c, Strain localization and megathrust slip accommodation modes in the Franciscan Complex, California: Geological Society of America Abstracts with Programs, v. 48, no. 7, doi: 10.1130/abs/2016AM-278951
99. [Wakabayashi, J.](#), 2016b, Importance of an Expanded Definition of Ocean Plate Stratigraphy for Evaluating Tectonic Versus Sedimentary Mélanges. Japanese Geoscience Union Meeting 2016, Abstract C000341.
98. [Wakabayashi, J.](#), 2016a, Sedimentary serpentinite of the lower Great Valley Group, California: Updates on Distribution and Characteristics. Geological Society of America Abstracts with Programs, v. 48, no. 4, doi:10.1130/abs/2016CD-274157.
97. [Wakabayashi, J.](#), 2015b, Non-accretionary versus accretionary megathrust accommodation at depths of ~15 to 30 km: Insight from the Franciscan Complex, California. EOS Fall Meeting Supplement, Abstract T21E-2887.

96. Wakabayashi, 2015a, Variety of orogenic ultramafic body internal character and contact relationships reflects diverse emplacement mechanisms: Geological Society of America Abstracts with Programs, v. 47, no. 7, p. 387
95. Wakabayashi, J., 2014, Multiscale architecture of a subduction complex and insight into large-scale material movement in subduction systems: EOS Fall Meeting Supplement, Abstract V31D-4786
94. Wakabayashi, J., 2014, Variety of ophiolitic rocks and their emplacement settings within the California Cordillera: Geological Society of America Abstracts with Programs, v. 46, no. 6, p. 657
93. Wakabayashi, J., and Xiao, W., 2014, Central Asian Orogenic Belt and the California Cordillera: Similarities and contrasts: Geological Society of America Abstracts with Programs, v. 46, no. 6, p.790
92. Hildebrand-Garcia, M.\*, and Wakabayashi, J., 2014, Sierra City mélangé: Upper plate ophiolite or intra subduction complex mélangé: Geological Society of America Abstracts with Programs (accepted but withdrawn)
91. Wakabayashi, J., and Basu, A.R., 2014, Geochemical insight into subduction initiation, element mobility in metamorphism, and provenance signal bias in clastic rocks. Abstracts for the Goldschmidt 2014 meeting, Sacramento, California.
90. Wakabayashi, J., 2014, Architecture of the Franciscan subduction complex, California and implications for tectonic processes. Abstracts for the Goldschmidt 2014 meeting. Sacramento, California.
89. Mendoza, Y.\*, and Wakabayashi, J., 2013, High-grade burial metamorphism of sedimentary mélangé, Shoo Fly Complex, central Sierra Nevada, California. EOS Fall Meeting Supplement, abstract T11A-2407
88. Wakabayashi, J., 2013c, Progressive, long-lived, versus punctuated HP metamorphic events: A regional perspective from the Franciscan Complex, California: Geological Society of America Abstracts with Programs, v. 45, no. 7, p. 881
87. Wakabayashi, J., 2013b, Mélanges with HP metamorphic rocks in subduction complexes: Deformed olistostromes rather than exhumed subduction channels? Geological Society of America Abstracts with Programs, v. 45, no. 6, p.1
86. Wakabayashi, J., 2013a, What is an exotic block? Importance in evaluating origins of mélangé: Geological Society of America Abstracts with Programs, v. 45, no. 6, p. 7
85. Carlson, C.W.\*, and Wakabayashi, J., 2013, One versus two late Cenozoic uplift events, Sierra Nevada, California, recorded in drainage geomorphology: Geological Society of America Abstracts with Programs, v. 45, no. 6, p.17
84. Luo, J.\*, and Wakabayashi, J., 2013, An upper crustal ophiolite remnant within the Feather River ultramafic belt, northern Sierra Nevada California: Unsubducted, but affected by ridge subduction? Geological Society of America Abstracts with Programs, v. 45, no. 6, p. 72
83. Masutsubo, N.\*, and Wakabayashi, J., 2013, Diverse metamorphic trajectories, imbricated ocean plate stratigraphy, and fault rocks, Yuba River area, Feather River ultramafic belt, California: Geological Society of America Abstracts with Programs, v. 45, no. 6, p. 72
82. Eck, D.S.\*, and Wakabayashi, J., 2013, The Devils Gate ophiolite, northern Sierra Nevada: Not an ophiolite or metamorphic sole? Geological Society of America Abstracts with Programs, v. 45, no. 6, p.72
81. Shimabukuro, D.H.\*, Alvarez, W., Wakabayashi, J., and Moores, E.M., 2013, An oceanic core complex preserved in ophiolitic fragments in Calabria, southern Italy: Geological Society of America Abstracts with Programs, v. 45, no. 6, p.55
80. Wakabayashi, J., 2012, Gradation between mélanges and coherent units: Insight into convergent plate margin tectonics: Geological Society of America Abstracts with Programs, v. 44, no. 7, p.384
79. Masutsubo, N.\*, and Wakabayashi, J., 2011, Complex temporal-spatial relationships, Feather River ultramafic belt, northern Sierra Nevada. EOS Fall Meeting Supplement Abstracts
78. Jackson, J.L.\*, Wakabayashi, J., and Jackson, B.A., 2011, Southern continuation of high-grade metamorphic rocks of the Feather River ultramafic belt, California: Preliminary reconnaissance. EOS Fall Meeting Supplement Abstracts
77. Ghatak, A., Basu, A.R., and Wakabayashi, J., 2011, Trace element and isotopic geochemistry of Franciscan graywackes with implications for short time of recycling of detritus and interaction of continental sediments with metabasites during subduction. EOS Fall Meeting Supplement Abstracts
76. Dumitru, T.A., Ernst, W.G., and Wakabayashi, J., 2011, Episodic vs. continuous accretion in the Franciscan accretionary prism and direct plate motion controls vs. more local tectonic controls on prism evolution. EOS Fall Meeting Supplement Abstracts
75. Prohoroff, R.E.\*, Wakabayashi, J., and Dumitru, T., 2011, Sandstone matrix olistostrome deposited on intra-subduction complex serpentinite, trench slope basin deposits, and nappe and fold architecture and chronology, Franciscan Complex, Marin County, California. EOS Fall Meeting Supplement Abstracts
74. Wakabayashi, J., 2011, Sedimentary Origins of the Block-in-Matrix Fabric of a Mélangé Between Coherent Nappes of a Subduction Complex: Localization of the Paleosubduction Megathrust Along the Upper Mélangé Contact. EOS Fall Meeting Supplement Abstracts
73. Masutsubo, N.\*, and Wakabayashi, J., 2010, Amphibolite and blueschist facies metamorphism, Feather River ultramafic belt, Yuba River drainage: A record of subduction initiation, ridge subduction, and continued subduction? Geological Society of America Abstracts with Programs, v. 42, no. 5, p. 479
72. Mendoza, Y.\*, and Wakabayashi, J., 2010, Collisional metamorphic signature in the Sierra Nevada, California? High-grade metamorphism of the Shoo Fly Complex: Geological Society of America Abstracts with Programs, v. 42, no. 5, p. 479



71. Shimabukuro, D.H.\*, Wakabayashi, J., Alvarez, W., and Chang, S.-c., 2010, Possible cold subduction initiation beneath a continental margin in Calabria, southern Italy: Geological Society of America Abstracts with Programs, v. 42, no. 5, p. 678.
70. Prohoroff, R.E.\*, and Wakabayashi, J., 2010, Order within the chaotic: Franciscan Complex field relations show km-scale overturned folds, an olistostrome deposited on intra-Franciscan serpentinite, and more: Geological Society of America Abstracts with Programs, v. 42, no. 5, p. 35.
69. Ghatak, A., Basu, A.R., and Wakabayashi, J., 2010, Element mobility in Subduction metamorphism: Insight from metamorphic rocks of the Franciscan Complex and Feather River ultramafic belt, California: Geological Society of America Abstracts with Programs, v. 42, no. 5, p. 576.
68. Wakabayashi, J., Ghatak, A., and Basu, A.R., 2010, Supra-subduction zone protolith signatures in metamorphic soles, initiation of subduction, and models of ophiolite generation and emplacement: Geological Society of America Abstracts with Programs, v. 42, no. 5, p. 575-576.
67. Wakabayashi, J., 2009, Tectonic inversion: Regional versus local, and association with migrating strike-slip step-overs: Geological Society of America Abstracts with Programs, v. 41, no. 7, p. 51
66. Wakabayashi, J., 2009, Mesozoic Cordilleran tectonics: Pre-Franciscan subduction initiation and termination events, and episodic processes during continuous Franciscan subduction: Geological Society of America Abstracts with Programs, v. 41, no. 7, p. 589
65. Wakabayashi, J., 2009, Insight into Franciscan mélangé development from sedimentary breccias, field relations, and block types: Geological Society of America Abstracts with Programs, v. 41, no. 7, p. 403
64. Kemp, C.\*, and Wakabayashi, J., 2009, Late Cenozoic uplift and associated landscape evolution of the Sierra Nevada, California: Geological Society of America Abstracts with Programs, v. 41, no. 7, p. 180
63. Carlson, C.\*, Wakabayashi, J., and Pluhar, C., 2009, Field relations and age of late Cenozoic volcanic units inset within the mid-upper San Joaquin River drainage, CA: Geological Society of America Abstracts with Programs, v. 41, no. 7, p. 293
62. Shriver, A.\*, and Wakabayashi, J., 2009, Landscape evolution of the northern Sierra Nevada, USA: Insights from the American River drainage: Geological Society of America Abstracts with Programs, v. 41, no. 7, p. 293
61. Luce, J.\*, and Wakabayashi, J., Revisiting the lone Sierra Nevada eclogite locality: What IS it?: Geological Society of America Abstracts with Programs, v. 41, no. 7, p. 404
60. Long, J.\*, and Wakabayashi, J., 2009, High-P amphibolite blocks from mélangé, Nacimiento belt, coastal California: A first report: Geological Society of America Abstracts with Programs, v. 41, no. 7, p. 403
59. Masutsubo, N.\*, and Wakabayashi, J., 2009, Beyond simple models of orogenic metamorphism: HP/HT, LP/HT, and HP/LT metamorphism, Feather River ultramafic belt, North Yuba River canyon, California: Geological Society of America Abstracts with Programs, v. 41, no. 7, p. 519
58. Annis, D.\*, and Wakabayashi, J., 2009, HP/HT metamorphism of the Devil's Gate ophiolite, Sierra Nevada, California: Where is the upper plate?: Geological Society of America Abstracts with Programs, v. 41, no. 7, p. 404
57. Hitz, B.\*, and Wakabayashi, J., 2009, Franciscan shear zones between Coast Range ophiolite and Great Valley Group rocks: Evidence of mélangé diapirism? Geological Society of America Abstracts with Programs, v. 41, no. 7, p. 404
56. Shimabukuro, D.\*, Wakabayashi, J., Libera, F., Piluso, E., and Alvarez, W., 2009, Applying the Franciscan model to a non-collisional Alpine segment in the Calabrian orogen of southern Italy: Geological Society of America Abstracts with Programs, v. 41, no. 7, p. 403
55. Dumitru, T.A., Wakabayashi, J., and Wright, J.E., 2009, Time-varying accretion, nonaccretion, and metamorphism in the Franciscan subduction complex from the initiation of subduction until ca. 80 Ma: Geological Society of America Abstracts with Programs, v. 41, no. 7, p. 404
54. Dundas, R.G., Harmsen, F.J.M., and Wakabayashi, J., 2009, Mammuthus and Camelops from Pleistocene strata along the Caltrans State Route 180 West project, Fresno, California: Geological Society of America Abstracts with Programs, v. 41, no. 7, p. 109
53. Wakabayashi, J., 2009, Quaternary faulting within the Sierra Nevada: Old views, newer views, challenges: AEG News, v. 52 Annual Meeting Program with Abstracts, p. 109
52. Kemp, C.\*, and Wakabayashi, J., 2009, Sierra Nevada frontal fault system: Kinematics and associated landscape evolution: Geological Society of America Abstracts with Programs, v. 41, no. 5, p. 31.
51. Ghatak, A., Basu, A.R., and Wakabayashi, J., 2008, Trace element mobility and Nd-Sr-Pb isotopes in the high-grade metamorphic rocks of the Franciscan subduction complex: Evidence for an arc protolith: EOS (2008 AGU Fall Meeting abstracts)
50. Kemp\*, C., and Wakabayashi, J., 2008, Temporal slip variation of the Sierra Nevada frontal fault system and effects on landscape evolution: EOS (2008 AGU Fall Meeting abstracts)
49. Smart\*, C., and Wakabayashi, J., 2008, Hot and deep: Rock record of subduction initiation, Feather River ultramafic belt, California: Geological Society of America Abstracts with programs, v. 40, no. 6, p. 514-515
48. Wakabayashi, J., and Smart\*, C., 2008, The rate of SW Pacific Cenozoic tectonic transitions compared to models of North American Cordilleran tectonics: Are the latter too simplistic? Geological Society of America Abstracts with programs, v. 40, no. 6, p. 514.

47. Wakabayashi, J., and Dilek, Y., 2007, Mélange types and formation in contrasting settings associated with convergent margin tectonics: Geological Society of America Abstracts with programs, v. 39, no. 6, p. 453
46. Wakabayashi, J., 2006, Speculation on Mendocino Triple Junction evolution: Instability and interactions with multiple San Andreas fault system strands: EOS Transactions of the American Geophysical Union, v. 87, no. 52, Fall Meeting Supplement. Abstract no. T53E-07
45. Dumitru, T.A., Wright, J.E., Wakabayashi, J., Wooden, J.L., 2006, Geochronology of the Franciscan Eastern Belt in the Yolla Bolly area, northern California, and the nature of the South Fork Mountain schist: EOS, v. 87, no. 52, Fall Meeting Supplement. Abstract no. T11D-0469
44. Ghatak, A., Basu, A.R., and Wakabayashi, J., 2006, Isotopic and geochemical studies of high grade blocks and coherent metamorphic rocks, Franciscan Complex: New results: Geological Society of America, Abstracts with Programs, v. 38, no. 7, p. 506.
43. Tsujimori, T., Matsumoto, K., Wakabayashi, J., and Liou, J.G., 2005 Franciscan eclogite revisited: Reevaluation of P-T evolution of tectonic blocks from Tiburon Peninsula, California, EOS, v. 86, no. 52, Fall Meeting Supplement. Abstract no. V13E-0592.
42. Wakabayashi, J., 2005, Commonly neglected factors in orogenic belt evolution invite further study: Geological Society of America Abstracts with programs, v. 37, no. 4, p.81
41. Basu, A.R., and Wakabayashi, J., 2005, Arc origin of Franciscan high-grade metamorphic rocks consistent with the tectonic model of Moores (1970): Geological Society of America Abstracts with programs, v. 37, no. 4, p.63.
40. Platt, J.P., Anczkiewicz, R., and Wakabayashi, J., 2005, Conditions of initiation of the Franciscan subduction from Lu-Hf ages on high-grade blocks: Geological Society of America Abstracts with programs, v. 37, no. 4, p. 84-85.
39. Saha, A., Basu, A.R., Wakabayashi, J., and Wortman, G.L., 2004, Subducted infant arc in the protoliths of high-grade tectonics blocks of the Franciscan: EOS (Transactions of the American Geophysical Union), v. 85, no. 17, Joint Assembly Supplement, p. JA472.
38. Wakabayashi, J., 2003, Tectonic Mechanisms Associated with Metamorphic P-T Paths: Alternatives to Thrusting-Thermal Relaxation Cycles: EOS v. 84, no. 46, p. F1348
37. Wakabayashi, J., Hengesh, J.V., and Sawyer, T.L., 2002, Four-dimensional transform fault processes: Evolution of step-overs and bends at different scales: EOS, v. 83, no.47, p. F1313
37. Platt, J., Anczkiewicz, R., Dumitru, T., Wakabayashi, J., and Thirlwall, R., 2002, Timing of HP metamorphism and rates of exhumation in the Franciscan Complex, California: Evidence from Lu-Hf and Sm/Nd garnet dating: EOS, v.83, no. 47, p. F1304-1405.
36. Wakabayashi, J., 2002, Recognition and mapping of melanges: Implications for engineering projects: Geological Society of America, Abstracts with Programs, v. 34, no. 6, p.255.
35. Wakabayashi, J. and Dilek, Y., 2001, What constitutes emplacement of an ophiolite? Geological Society of America Abstracts with Programs, v. 33, no. 6, p. A226-A227.
34. Tagami, T., and Wakabayashi, J., 2000, Temporal correlation of the Mesozoic orogenic events recorded in Sierra Nevada batholiths, Great Valley Group, and Franciscan belts: EOS, v. 81, no.48, p. 1071
33. Saha, A., Basu, A., Wortman, G.L., and Wakabayashi, J., 2000, REE, Nb-Ta, and Nd-isotope geochemistry of Franciscan eclogites and blueschists-role of fluid mobility and sphene stability in subducting ocean-crust protolith: EOS, v. 81, no.48, p.1355-1356.
32. Wakabayashi, J., and Sawyer, T.L., 2000, Stream incision, tectonics, uplift, and evolution of topography of The Sierra Nevada, California: Geological Society of America Abstracts with Programs, v. 32, no. 7, p. A165
31. Wakabayashi, J., and Sawyer, T.L., 2000, Distribution of late Cenozoic faults in the Sierra Nevada, California: AEG News v. 43, no. 4 (Annual Meeting, Program and Abstracts), p.119
30. Wakabayashi, J., and Sawyer, T.L., 1999, Slip transfer from the northern Calaveras fault: A critical unresolved seismic hazard issue in the eastern San Francisco Bay region: EOS, v. 80, no. 46, p. F735.
29. Wakabayashi, J., 1999, The first and the last: the impact of initiation and termination of subduction on the Franciscan and other subduction complexes: Geological Society of America, Abstracts with Programs, v. 31, no. 6, p.A105
28. Wakabayashi, J., 1998, The blueschist sandwich: a clue to mechanisms of forearc high development and exhumation of the Franciscan Complex, California: EOS, v. 79, no. 45, p.F913.
27. Wakabayashi, J., and Sawyer, T.L., 1998, Holocene (?) oblique slip along the Miller Creek fault, eastern San Francisco Bay Area, California: EOS, v. 79, no. 45, p.F613.
26. Wakabayashi, J., and Hengesh, J.V., 1998, 4-D processes in transform fault systems: progressive development of step-overs and bends: Geological Society of America, Abstracts with Programs, v. 30, no.7, p. A74-A75.
25. Wakabayashi, J., 1997, Rationale for limited post-Eocene slip on the Pilarcitos fault and a working model for slip distribution and evolution of the northern San Andreas fault system: EOS, v. 78, no. 46, p. F703
24. Wakabayashi, J., 1996, Back to the future: California Coast Ranges at depth and implications for the interpretation of orogenic belts: EOS, v. 77, no. 46, p. 743
23. Hengesh, J.V., Nolan, J.M., and Wakabayashi, J., 1996, Holocene displacement along the Serra fault, San Francisco Peninsula, California: EOS, v. 77, no. 46, p. 744.
22. Sawyer, T.L., Hitchcock, C.S., Knudsen, K.L., Sowers, J.M., Crampton, T., Sawyer, J.E., Wakabayashi, J., Lettis, W.R., and Caskey, S.J., 1996, Middle to late Quaternary strike-slip faulting on the Muleshoe Mine fault, Butt Valley Fault Zone (BVFZ), NE California: Geological Society of America, Abstracts with Programs, v. 28, no.5, p.108-109.
21. Marcum, D., Wakabayashi, J., and Page, W.D., 1995, Potential slope instability areas at the Caribou Penstocks, North Fork Feather River, northeast California: Annual Meeting, Association of Engineering Geologists, v. 38, abstract volume, p. 70.
20. Wakabayashi, J., 1994, Deformation along the Coast Range-Central Valley Geomorphic boundary, California and the shortening budget for the Coast Ranges: EOS, Trans. Amer. Geophys. Union, v.75, no. 44, p.684

19. Wakabayashi, J., and Hengesh, J.V., 1994, The influence of basement structural grain on Holocene faulting, San Francisco Bay, California: EOS, Trans. Amer. Geophys. Union, v.75, no.44, p.681
18. Hengesh, J.V., and Wakabayashi, J., 1994, Quaternary deformation along the onshore projection of the Coyote Point fault zone: EOS, Trans. Amer. Geophys. Union, v.75, no.44, p.681
17. Wakabayashi, J., and Page, W.D., 1994, Quaternary faulting and incision rates, North Fork Feather River, northeastern Sierra Nevada, California: Geological Society of America, Abstracts with Programs, v. 26, no. 7, p. A300
16. Wakabayashi, J., and Page, W.D., Renne, P.R., Sharp, W.D., and Becker, T.A., 1994, Plio Pleistocene volcanic rocks and incision of the North Fork Feather River, California: tectonic implications: Abstracts for the 8th International Conference on Geochronology, Cosmochronology and Isotope Geology, U.S. Geol. Surv. Circular 1107, p.345.
15. Becker, T.A., Sharp, W.D., Renne, P.R., Turrin, B.D., Page, W.D., and Wakabayashi, J., 1994, 40Ar/39Ar dating of young low-K tholeiites: examples from northeast California, U.S.A.: Abstracts for the 8th International Conference on Geochronology, Cosmochronology and Isotope Geology, U.S. Geol. Surv. Circular 1107, p. 24
14. Wakabayashi, J., and Unruh, J.R., 1994, On the compatibility of tectonic wedging with blueschist metamorphism and uplift: Geol. Soc. Amer. Abstr. w. Prog., v.26, no.2, p.101
13. Sawyer, T.L., Wakabayashi, J., Page, W.D., Thompson, S.C., and Ely, R.W., 1993, Late Cenozoic internal deformation of the northern and central Sierra Nevada, California: A new perspective: EOS, Trans. Amer. Geophys. Union, v.74, no. 44, p. 609
12. Wakabayashi, J., and Page, W. D., 1993, Quaternary faulting of basalt flows on the Melones and Almanor fault zones, North Fork Feather River, NE California: Geological Society of America , Abstracts with Programs v.25, no. 5, p. 159.
11. Wakabayashi, J., and Smith, D. L., 1993, Recurrence intervals and maximum earthquakes associated with thrusting, Coast Range-Central Valley boundary: Geol. Soc. Amer., Abstr. w. Programs, v. 25, no.5.p. 159.
10. Page, W. D., Sawyer, T. S., McLaren, M. , Savage, W. U., and Wakabayashi, J., 1993, The Quaternary Tahoe-Medicine Lake trough: the western margin of the Basin and Range transition, NE California: Geol. Soc. Amer. , Abstr. w. Programs, v. 25, no. 5, p. 131.
9. Wakabayashi, J., Hamilton, D. H., and Smith, D. L., 1991, Miller Creek fault and related faults, eastern San Francisco Bay area, California: seismotectonic significance: Geol. Soc. Amer. Abstr. w. programs, v. 23, no. 5, p. A84.
8. Irwin, J. J., Wakabayashi, J., and Donovan, J., 1991, Oscillatory compositional zonation in metamorphic minerals, Franciscan Complex, California: Geol. Soc. Amer. Abstr. w. programs v. 23, no. 5, p. A449
7. Wakabayashi, J., and Deino, A., 1989, Laser-probe 40Ar/39Ar ages from high grade blocks and coherent blueschists, Franciscan Complex, California: Preliminary results and implications for Franciscan tectonics: Geol. Soc. Amer. Abstr. w programs v. 21, no. 6, p. A267.
6. Wakabayashi, J., and Dilek, Y., 1988, Ophiolites, subophiolitic soles and the problem of forearc ophiolites:EOS , v. 69, no.44, p. 1450.
5. Wakabayashi, J., and Moores, E. M., 1988, Syn- and post-accretionary tectonics of the Franciscan Complex, California: Geol. Soc. Amer. Abstr. w. programs, v. 20, no. 7, p. A273.
4. Wakabayashi, J., 1988, Counterclockwise P-T-t paths from Franciscan amphibolites: implications for metamorphic evolution in a subduction zone: Geol. Soc. Amer. Abstr. w programs, v. 20, no.3, p. 240-241.
3. Wakabayashi, J., 1987, Amphibolite grade metamorphism of Franciscan rocks from the San Francisco Bay Area, California: Geol. Soc. Amer. Abstr. w programs, v. 19, no. 6, p. 460
2. Wakabayashi, J., and Dilek, Y., 1987, An alpine-style collision in the northern Sierra Nevada, California: structural and metamorphic evidence:EOS , no. 44, v. 68, p.1474
1. Wakabayashi, J., and Moores, E. M., 1986, Evidence for the collision of the Salinian Block with the Franciscan subduction zone: EOS, v.64, no. 44, p. 1215

### **EXTRAMURAL GRANTS (as PI/co-PI)**

NSF-EAR \$69,692 (Award for 2007-2009). Geochemical investigations of subduction initiation processes, Franciscan Complex, California. Pre-Fresno State extramural grants included three National Earthquake Hazard Reduction Program Grants for a total funded amount of approximately \$150,000 awarded 1994-1997.

### **INVITED LECTURES/TALKS**

#### Keynote talks at International Conferences:

Geological Society of America Penrose Conference on the Central Asian Orogenic Belt, Urumqi, China, September 2011, International Conference on tectonics of strike-slip restraining and releasing bends in continental & oceanic settings (Geological Society of London, London, UK, Sept. 28-30, 2005);

#### Invited talks at Invitation-Only International Conferences

Coleman Symposium (Dec. 2003), Liou Symposium (Dec. 2005).

#### Invited talks at International Conferences

American Geophysical Union Fall Meeting 1994, 1998; Geological Society of America Annual Meeting, 1999, 2009 (twice), 2014, 2018; Japanese Geoscience Union 2016.

#### Invited talks at National Geologic Research Organizations

U.S. Geological Survey (Menlo Park, CA) (twice), U.S. Geology Survey (Denver, CO)

#### Invited talks at Geoscience Departments, Universities outside of USA

Cambridge Univ. (U.K.) 1998; Kyoto Univ. (Japan) 1993, Tohoku University (Japan) (2 talks) 2009, Guangzhou Institute of Geochemistry (China) (3 talks) 2011; National Taiwan Univ. 2014, 2018; National Dong-Hwa Univ. (Taiwan) (2 talks) 2014.; Univ. Pierre and Marie Curie (UPMC) (2 talks), Paris 2015. Univ. Utrecht (Netherlands) 2017.

#### Invited talks at Ph.D.-granting Geoscience Departments, USA

Colorado School of Mines; Missouri S&T; North Carolina State Univ.; Portland State Univ.; Southern Methodist Univ.; Stanford Univ. (thrice); St. Louis Univ.; Univ. Alaska-Fairbanks; Univ. California Berkeley (Engineering); UC Davis (four

times); UCLA (twice); UC Santa Cruz (twice); Univ. Colorado-Boulder; Univ. Hawaii; Univ. Nevada-Las Vegas (twice), Univ. Nevada-Reno (twice); Univ. Pittsburgh; Univ. Southern California; Univ. Tennessee-Knoxville, University of Texas-Austin; Univ. Texas-Dallas

Invited talks at non-Ph.D-granting Geoscience Departments , USA

Cal. Poly. Pomona; Cal. State Univ. Chico (thrice); Cal. State University Fresno (thrice; prior to employment there); Cal. State Hayward/East Bay (four times); Cal. State Univ. Sacramento (twice); Cal. State Univ. San Bernadino; Cal. State Univ. Stanislaus; Humboldt State; San Francisco State (thrice), San Jose State (thrice); Sonoma State (five times); California Univ. (PA); Georgia State Univ.; Guilford College (North Carolina); Slippery Rock Univ. (PA); Central Washington Univ.; Univ. North Carolina Charlotte; University of the Pacific; Univ. Western Georgia; Western Washington Univ.

Keynote talks at Regional Geologic Society Meetings

National Association of Geoscience Teachers, 2012

Invited Talks, Regional Geologic Society Meetings

Association of Engineering Geologists, San Francisco Section (four times), Association of Engineering Geologists, Sacramento Section (twice); Association of Engineering Geologists, Fresno Chapter (thrice); Northern California Geology Society (thrice), Peninsula Geological Society, San Joaquin Geological Society (twice), Volcanological Society of Sacramento (twice) .

## **GEOLOGIC FIELD TRIPS LED**

(organizations for which trips were led; university trips exclude trips conducted while in employ of that university)

Field Trips Led for International Conferences or Organizations

International Geologic Congress (1989); Amer. Assoc. of Petroleum Geologists (1990); International Geologic Correlations Project-Metabasites (1992); International Conference on Geochronology, Cosmochronology and Isotope Geology (1994); Amer. Geophysical Union Chapman Conference on Geodynamics and Plate Motions (1996); Geological Society of America Penrose Conference on Ophiolites (1998); Geological Society of America Cordilleran Section (1999, 2005, 2013); Casey Moore Retirement Celebration (2008); Ernst 80th Celebration (2011);CIDER(Cooperative Institute for Dynamic Earth Research) 2013; Goldschmidt 2014; Structural Geology and Tectonics Forum 2016. Streetcar to Subduction 2019 (AGU).

Field Trips Led for National/Regional Geoscience Organizations

Assoc. of Engineering Geologists SF-Section (three times), Friends of the Pleistocene Pacific Cell (1995 as stop leader, 2001 as main leader; 2003 as stop leader; 2015 as co-leader); Assoc. of Women Geoscientists, National Assoc. of Geoscience Teachers (twice), Northern California Geological Society (three times), Peninsula Geologic Society/Stanford Univ., Indiana Geological Survey (for German participants)

Field Trips Led for Geoscience Departments, Universities outside of USA

Univ. Oslo (Norway), Univ. Mainz (Germany), Univ. Wien (Austria), Univ. Salzburg (Austria), University of Quebec at Montreal (Canada).

Field Trips Led for Geoscience Departments, USA Universities

CSU Hayward, UC Berkeley (twice), UC Davis, Chico State, Brigham Young Univ., Miami University (Ohio).