

PUBLICATIONS 1987/88

Published, In Press, Submitted and In Progress

CROWELL, JOHN

"Late Cenozoic Basins of Onshore Southern California." In Ingersoll, R. V., and Ernst, W. G. (eds.), *Cenozoic Basin Development of Coastal California, Rubey*, Volume VI, Prentice-Hall, Inc., Englewood Cliffs, New Jersey, 496 p., 1987a.

"Evolution of Important of International Activities in the Geosciences. In *International Role of U.S. Geoscience*, National Academy Press, 95 p, 1987b (with W. E. Benson and J. A. Reinemunch).

"Coarse Clastic Facies of Miocene Ridge Basin Adjacent to the San Gabriel Fault, Southern California:. In Hill, M. L., (ed.) *Centennial Field Guide* No. 1, Cordilleran Section of the Geol. Soc. of America, 1987c.

"The Tectonically Active Margin of the Western United States." *Episodes*, v. 10, 1988.

"The Southern San Joaquin Valley as an Example of Cenozoic Basin Evolution in California." In R. A. Price (ed.), *Sedimentary Basins*. AGU Geodynamics Red Book Series Volume. In press (with E. D. Goodman, E. L. Ambos, and P. Malin).

EVERETT, LORNE

Sub-Surface Migration of Hazardous Waste. Noyes Publications. In press (with others).

"Effect of Access Tube Material and Grout on the Neutron Probe Measurements in the Vadose Zone. Submitted to *Ground Water Monitoring Review*, June 1988 (with W. Keller and R. J. Marks).

KIMBROUGH, DAVID

"U-Pb Ages of Grantoid Clasts in Upper Mesozoic Arc-Derived Strata of the Vizcaino Peninsula, Baja California, Mexico." *Geology*, v. 15, p. 26-29. 1987 (with D.L., Hickey, J., and Tosdal, R.).

"Alkaline and Transitional Sub-alkaline Metabasalts in the Franciscan Complex Melange, California." E.M. Morris and J.D. Pasteris, eds.,

- Mantle Metasomatism and Alkaline Magmatism*, Geological Society of America Special Paper 215, p. 165-182, 1987 (with Shervais, J.W).
- "Lamprophyre Dike Intrusion and the Age of the Alpine Fault, New Zealand. *Geology*, v. 15, p. 941-944, 1987 (with Cooper, A.F., Barreiro, B. A., and Mattinson, J. M.).
- "Ophiolites in the South Island, New Zealand. In Malpas, J., ed., *International Ophiolite symposium volume*. In press (with Coombs, D. S. and Landis, C. A.).
- "Uranium-lead ages from the Dun Mountain Ophiolite Belt and Brook Street Terranes, South Island, New Zealand." Submitted to *Geological Society of America Bulletin*. (with Mattinson, J. M. Coombs, D. S., Landis, C. A., and Johnston, M.).
- "New Age Constraints on Maitai Group Strata (Permian-Triassic) from Northern Southland: Discovery of Ammonoids in Greville Formation and Radiometric Dating of Pyroclastic Zircon in the Snowdon Formation." Submitted to *New Zealand Journal of Geology and Geophysics* (with Landis, C. A., Pillai, D., Campbell, H., and Aitcheson, J.).
- "Evaluation of Pre-Tertiary Piercing Points Along the Northern San Andreas Fault Using U/Pb zircon Dating, Initial Sr and Common Pb Isotopic Compositions." Submitted to *Geological Society of America Memoir* (with James, E., and Mattinson, J. M.).
- "Jurassic Metamorphism of Fraser Formation, Westland, New Zealand." Submitted to *Transactions of the Royal Society of New Zealand* (with Rattenbury, M. S.).

LUYENDYK, BRUCE.

- "Gravity Study of the Boundary Between the Western Transverse Ranges and Santa Maria Basin, California." *Journal of Geophysical Research*, in press (with J. E. Up de Graff).
- "Hosgri Fault Zone, Offshore Santa Maria Basin, California." Submitted to *Geological Society American Memoir Series* (with J. W. Steritz.)

"Estimation of Distributed Shear and Fault Slip in the Continental Transfer Zone in Southern California: Limiting Values Based on Crustal Rotation Models." *Proceed. NATO Adv. Sci. Institute.* In press.

MALIN, PETER

"Vertical Seismic Profiling of Oroville Microearthquakes: Velocity Spectra and Particle Motion as a Function of Depth." *Bulletin of the Seismological Society of America.* Vol. 78, No. 2 (with J. A. Waller, R. D. Borchardt, E. Cranswick, E. G. Jensen, and J. Van Schaak).

"Comments on the Geology of the Tejon Embayment from Available Seismic, Well and Subsurface Data." In S. Graham (ed.), *The San Joaquin Basin*, SEPM Special Publication. In Press (with E. D. Goodman).

"The Mammoth Lakes Wide-angle Reflection Experiment." In N E. Goldstein (ed.), *Proceedings of the Symposium on the Long Valley Caldera: A Pre-Drilling Data Review.* LBL Special Publication No. (with H. L. Tono and W. J. Murphy).

"The Southern San Joaquin Valley as an Example of Cenozoic Basin Evolution in California." In R. A. Price (ed.), *Sedimentary Basins.* AGU Geodynamics Red Book Series Volume. In press (with E. D. Goodman, E. L. Ambos, and J. C. Crowell).

"Structural Features of the Eastern Tejon Embayment from Available Seismic Subsurface Data, and Field Geology." *AAPG Bulletin*, 72:3, 1988 (with E. D. Goodman).

"A Comparison of Earthquake Coda Waves at Surface Versus Subsurface Seismometers." Submitted to *JGR*, 1/88 (with S. N. Blakeslee).

"CALCRUST Seismic Profiling in the Whipple Mountain Detachment Terrane." Submitted to *JGR*, 6/88 (with D. A. Okaya and J. N. Louie).

"The Parkfield Downhole Digital Seismic Network." In progress (with T. V. McEvelly and W. Bakun).

"Seismic Reflection Structure and Tectonic Interpretation of the Tejon Embayment and Tehachapi Mountains from CALCRUST Data." In progress (with E. D. Goodman).

MATTINSON, JAMES

- "Lamprophyre Dike Intrusion and the Age of the Alpine Fault, New Zealand. *Geology*, v. 15, p. 941-944, 1987 (with Cooper, A. F., Barreiro, B. A., and Kimbrough, D. K.).
- "Early and Middle Cenozoic Stratigraphy of the Mount Ranier-Tieton River Area, Southern Washington Cascades." In *Geology of Washington*, Department of Natural Resources. In press (with Vance, J. A., Clayton, G. A. and Naeser, C. W.).
- "Constraints on the Timing of Franciscan Metamorphism: Geochronological Approaches and Their Limitation." In W.G. Ernst, ed., *Metamorphism and Crustal Evolution of the Western United States*, Vol. VII. In press.
- "Metamorphic History of the Salinian Block: An Isotopic Reconnaissance. In W. G. Ernst, ed., *Metamorphism and Crustal Evolution of the Western United States*, Rubey Vol. VII. In press (with E. W. James).
- "Geochronology of the Newfoundland Appalachians: Discussion." *Canadian Journal of Earth Sciences*. In press.
- "U-Pb Ages of Zircons: A Basic Examination of Error Propagation." *Isotope Geosciences*. In press.
- "Uranium-lead Isotopic Ages from the Dun Mountain Ophiolite Belt and Brook Street Terranes, South Island, New Zealand." Submitted to *Geol. Soc. American Bulletin*. (with D. K. Kimbrough, D. S. Coombs, C. A. Landis, D. Pillai, M.R. Johnston, and Campbell, H.).
- "Evaluation of Pre-Tertiary Piercing Points Along the Northern San Andreas Fault Using U/Pb zircon Dating, Initial Sr and Common Pb Isotopic Compositions." Submitted to *Geological Society of America Memoir* (with Kimbrough, D. K., and James, E.).

PROTHERO, WILLIAM

- "Results from Teleseismic Converted Wave Studies in Mojave." *Seismological Research Letters*, 58, No. 1, p. 34, 1987 (with Eickemeyer, J. A.).

"Preliminary Results from Converted Wave Studies in the Long Valley Caldera." *Seismological Research Letters*, 58, No. 1, p. 35, 1987 (with Steck, L.).

"A Fast Two Point 3-D Raytracing Algorithm Using a Simple Step Search Method." *Bulletin of the Seismological Society of America*, Vol. 78, No. 3, pp. 1190-1198, June 1988 (with W.J. Taylor and J. A. Eickemeyer).

SIBSON, RICHARD

"Earthquake Rupturing as a Mineralizing Agent in Hydrothermal Systems." *Geology*, 15, pp. 701-704, 1987.

"Effects of Fault Heterogeneity on Rupture Propagation." *Geological Survey, Open File Report*, 126, pp. 153-154, 1987.

"Book Review - *The Nature of the Lower Continental Crust*, J. B. Dawson, D. A. Carswell, J. Hall and K. H. Wedepohl, eds." *Pure Appl. Geophys*, 126, pp. 153-154, 1988.

"High-angle Reverse Faults, Fluid Pressure Cycling, and Mesothermal Gold-Quartz Deposits." *Geology*. In Press (with Pulsen, K. H. and Robert, F.).

"Rheological Models for Continental Seismicity and Maximum Seismogenic Depth." Submitted to *Seism. Res. Lett.*

ABSTRACTS, PRESENTATIONS, LECTURES, SEMINARS

CROWELL, JOHN

Participated in the Conference on Earth Science Systems, Pennsylvania State University, 1987.

MALIN, PETER

"An Introduction to the Parkfield California, Earthquake Prediction Experiment." *United Kingdom Geophysical Association*, Abs. 88.9, Leeds, UK, 1988 (with R. Evans).

- "Combined Seismic Reflection/Refraction Investigation in the Tehachapi Mountains, Southern California: Results from the 1986 CALCRUST Experiment." *EOS*, 68:44, 1987 (with E. L. Ambos.).
- "The Parkfield Downhole Seismic Array: Preliminary Analysis of Microearthquakes." *EOS*, 68:44, 1987 (with W. Foxal and T. V. McEvelly).
- "Parkfield Coda Q's: Plane Fitting in Frequency-Time Space for Analysis of Coda Origins and Precursors." *EOS*, 68:44, 1987. (with S. Blakeslee.)
- "Cooperative UCSB-UCB-USGS Recovery and Instrumentation of the 5150ft Varian A-1 Well as a Geophysical Observatory." *EOS*, 68:44, 1987 (with T. V. McEvelly and T. Moses.)
- "The Parkfield Cooperative UCSB-UCB-USGS Downhole Digital Seismic Network." *EOS*, 68:44, 1987 (with M. Alvarez, S. N. Blakeslee, A. J. Martin, T. McEvelly, W. Foxal, R. Clymer, D. Lippert, R. Dollar, T. Burdette, W. Bakun, W. Ellsworth, A. Lindh, and T. Moses).
- "Evolution and Tectonic Framework of the Southern San Joaquin Valley, California. *IUGG*, XIX General Assembly, Vancouver, Canada, Abstract Vol. 1, 1987 (with E. D. Goodman).
- "Crustal Structure of the Tehachapi Mountains from Seismic Refraction Data." *GSA*, Abs. #132598, 19, 1987 (with E. L. Ambos).
- "Tectonic/Structural Features in the Geologic Hub of California: Basement to Basin Transition - Tehachapi Mountains to Southern San Joaquin Valley." *GSA*, Abs. #130786, 19, 1987 (with E. D. Goodman).
- "Uphole-Downhole Microearthquake Data from Parkfield." *SRL-BSSA*, 58, 1987 (with S. Blakeslee and A. Martin).
- "Borehole Seismometer Designs for Oroville and Parkfield." *SRL-BSSA*, 58, 1987 (with A. Martin and S. Blakeslee).
- "Uphole-Downhole Comparison of Codas from Parkfield." *SRL-BSSA*, 58, 1987 (with S. Blakeslee and A. Martin).
- "Earthquake Prediction - Where's the Science?" Invited lecture at the Institute for Crustal Studies Special Seminar, UCSB, June 1988.

"The Varian Well Observatory at Parkfield." Presented at the Gold Hill Pre-Drilling Workshop, Institute for Crustal Studies, February 1988.

MATTINSON, JAMES

"Petrogenesis of Salinian Cordilleran Granites." *Geological Society of America Abstracts with Programs*, Vol. 19, no. 6. p 429.

PROTHERO, WILLIAM

"Preliminary Results from Teleseismic Converted Wave Studies Using Portable Arrays in Mojave and Mammoth Lakes." *EOS*, 67:1108, 1987 (with J. E. Eickemeyer, L. Steck).

SIBSON, RICHARD

"Structure and Mechanics of Fault Zones in Relation to Fault-Hosted Mineralization." 3 day short course for Charles Camsell Geological Society, Yellowknife, Canada, April 1988.

"Fault Segmentation and Controls of Rupture Initiation and Termination." USGS Redbook Conference, Palm Springs, California, May 1988 (with D. Schwartz, UCGS).