

CATHY J. BUSBY
ABBREVIATED CURRICULUM VITAE

PERSONAL: Born: Columbus, Ohio, July 11, 1951
Three children, born 1986 and 1989

EDUCATION: A.B., University of California at Berkeley, 1977
M.A., Geology, Princeton University, 1980
Ph.D., Geology, Princeton University, 1983

POSITIONS: Lab Assistant, K-Ar Laboratory, UC Berkeley, 1977
Research Assistant, Geology, Princeton University, 1978-1982
Research Assistant, Geochemistry, CalTech, 1981-1982
Research Associate, Smithsonian Institution, 1980-1989
Assistant Professor of Geology, UC Santa Barbara, 1982-1988;
Associate Professor, 1988-1993; Full Professor, 1993-present.
U.S. Geological Survey, summer 1997, 1998

EDITORSHIPS: Editor, *Sedimentology*, 1990-1994
Consulting Editor, *California Chronicles* (1999)
Editor (with R. Ingersoll), *Tectonics of Sedimentary Basins*,
Blackwell Science, 579 pp. (1995)
Editor (with D. Miller), *Jurassic Magmatism and Tectonics of the
North American Cordillera*, Geol. Soc. America Memoir, 423
pp. (1995)
Editor (with R. Cas), Special Issue of *Sedimentary Geology* on
"Volcaniclastic Sedimentation", V. 74, nos. 1-4, 362 pp. (1991)
Associate Editor, G.S.A. Bulletin, 1989-1991, 1998-2000

RECENT Councilor for Sedimentology, Global S.E.P.M. (Society for
Sedimentary Geology) Executive Committee, 2001-2003
National Correspondent, International Association of
Sedimentologists, 1994 – present.

PROFESSIONAL President, S.E.P.M. Pacific Section, (1995), President-elect (1994)
and Past President (1996).
President, Sedimentology Division of GSA (1992-1993), President-
elect (1991-1992) and Past Chair (1993-1994).

ACTIVITY: Bureau Member, International Association of Sedimentologists
(1990-1994).
Board of Directors of the Dibblee Foundation, 1995-1996
Pettijohn Medal Selection Committee, Society for Sedimentary
Geology, 1994-1996
Geological Society of America Committee on External Awards,
1995-1996.
Visiting Professor, Queens University, Canada, April 1997.

Symposia convened: Cordilleran Section G.S.A., 1986, 2005;
Annual G.S.A., 1987, 1991; International Geological Congress,
1989; Annual A.A. P.G., 1988 , 1990, 1998; Am. Geophys.
Union, 1989; I.A.V.C.E.I., 1998; International Association of
Sedimentologists, Fukuoka Japan, 2006.

Organized field trips led: Cordilleran Section G.S.A., 1986; S.E.P.M.
Fall Field Trip, 1987 and 1990; Annual G.S.A., 1991; Penrose
Conference, 1993; Annual A.A.P.G.-S.E.P.M., 1996; VSSAC,
2004; National Association of Geoscience Teachers, Fall 2006;
Sierra Nevada Earthscope – Mantle Drip Continental Dynamics
Meeting, Central Sierra, Fall 2006; Society for Sedimentary
Geology (SEPM) Annual Meeting, Spring 2007.

Recent keynote address: International Sedimentological Congress,
Fukuoka, Japan, 2006. Invited keynote: IAS, Greece, 2007.

SHORT	Tectonics of Sedimentary Basins (with R.V. Ingrsoll):
	A.A.P.G.-S.E.P.M. Annual Meeting, 1996;
COURSES	I. A. S. International Congress, 1998;
	A.A.P.G.-S.E.P.M. Annual Meeting, 1998;
TAUGHT	Second Latinamerican Sedimentological Congress, 2000
	NORFA North European PhD Training Course, Norway, 2002
	State-of-the-Art Turbidites: Arco British, May 1996; BHP, May 1998.
	Sedimentary Tectonics with Applications to Forearc Turbidite Systems: JOGMEC, Japan, 2006.

AWARDS:	A.A.P.G. Distinguished Lecturer, 2001-2002 (6 week lecture tour).
	Visiting Scholar, Queens University, April 1997.
	Fellow of the Geological Society of America, 1995-present.
	Faculty Mentor, UC President's Fellowship Award, 1989-1991.
	Sigma Xi, Princeton Chapter, Full Membership.
	National Science Foundation Dissertation Award, 1981-1982.
	Geological Society of America Penrose Bequest, 1978, 1979, 1980.
	Sigma Xi Research Grants, 1979, 1980.
	President's Undergraduate Fellowship for Research, UC Berkeley, 1976-1977; Guinivere McEnery Scholarship, UC Berkeley, 1974-1975.

EXTRAMURAL	National Science Foundation Doctoral Dissertation Grant,
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GRANTS: 1981-1982: "Geochronology, Petrology and Environment of Deposition of Mesozoic Volcanics, Southern Sierra Nevada, California" (\$5,000).

The Petroleum Research Fund of the American Chemical Society Type G Grant, 1983-1985, (\$15,000).

NSF grant (with Dr. James Boles), "Sedimentation Models of Arc-Related Basins," 1984-1986 (\$104,000).

NSF grant, "Stratigraphy and U-Pb Zircon Geochronology of Mesozoic Eolianites and Interstratified Metavolcanic Rocks, Calif. and So. Arizona," 1986-1988 (\$125,000).

NSF grant, "The Evolution of Arc-Related Basins: Stratigraphic, Structural and Geochronological Studies of Mesozoic Sedimentary and Volcanic Rocks, Baja California, Mexico," 1987-1989 (\$100,000).

NSF grant, "Acquisition of a Four-Wheel Drive Vehicle for Field Research in Mesozoic Arc-Related Basins," (\$9,000)

NSF grant, "Tectonic Setting of the Early Mesozoic Continental Arc of California and Arizona," 1988-1990 (\$90,000).

Petroleum Research Fund of the American Chemical Society grant, "Controls of Tectonism and Eustacy on Cretaceous Forearc Basin Fill, Baja California, Mexico", 1990-1992 (\$40,000).

British Petroleum Research Grant, "Basin-wide Facies Architecture of Fan-delta, Slope and Submarine Fan Environments", 1990 (\$10,000).

NSF grant, "Jurassic Extensional Arc-Continental Rift Transition, Mojave-Sonoran Deserts", 1991-1993 (\$82,375).

NSF grant, "Collaborative Research: Terrane Analysis in Baja California", 1991-1993 (with D. Smith, Vanderbilt University, \$9,000 to Busby-Spera).

British Petroleum Research Grant, "Sedimentology of Cretaceous Deep Marine Sediment Gravity Flows, Baja California, Mexico", 1991 (\$10,000).

NATO grant, "Evolution and Interrelations of Grabens and Calderas in Transtensional Regimes", 1991-1993 (\$18,000, with P. Kokelaar, University of Liverpool).

NSF grant, "ACCOMPLISHMENT-BASED RENEWAL: Development of Basins and Calderas in Extensional to Transtensional Arc Settings", 1993-1995 (\$120,000).

NSF grant, "Facies Modeling and Process Volcanological Studies in an Oceanic Arc Terrane", 1993-1996 (\$180,000).

ARCO research gift, "Three-dimensional Heterogeneity of Turbidite Systems", 1996-1997 (\$7,500).

Petroleum Research Fund of the American Chemical Society grant, 1998-2000, "High Resolution Sequence Stratigraphic Framework of a Tectonically Active Forearc Basin", (\$60,000).

U.S. Geological Survey, 1997-1998, "Deepwater Volcanic Setting of an Ordovician Massive Sulfide, Northern Maine", (\$65,000).

NSF Grant, 2002-2005, Miocene Volcanism in the Sierra Nevada, California: Stratigraphy, Volcanology, Geochronology and Structure (\$300,000), collaborative with Ian Skilling (University of Mississippi, \$100,000).

USGS EDMAP grant, 2003, Geologic mapping of Tertiary volcanic-volcaniclastic rocks in the northern Sierra Nevada: Paleotopographic and structural evolution (\$30,000).

USGS EDMAP grant, 2005, Geologic Mapping of the Central Sierran Frontal Fault System with Implications for the Tahoe Basin and the Carson City-Bridgeport Population Corridor (\$30,000).

UC Mexus grant, 2005-2006 (with Elena Centeno Garcia, UNAM, Mexico): Exotic vs. Fringing Arcs: Implications for the Growth of Continents (\$25,000).

USGS EDMAP grant, 2006, Spatial Variation in Structural Styles along the Central Sierra Nevada Range Front (California): Clues from Volcanic Stratigraphy (\$15,000).

INTRAMURAL GRANTS

University of California Faculty Career Development Grant,
Winter 1984 (3/9 salary)

UCSB Office of Research Development and Administration, Equipment
Grant, 1987 (\$6,000)

UCSB Office of Research Development and Administration Postdoctoral
Researcher Salary, 1988-1989 (\$10,000)

President's Fellowship Mentorship, 1989-1991 (awards salary to
postdoctoral researcher)

UCSB General Research Grants: 1983-1984 (\$4,500), 1984-1985
(\$4,000), 1986-1987 (\$4,000), 1988-1989 (\$5,000), 1990-1991 (\$3,050),

1995-1996 (\$5,000), 1997-1998 (\$5,000), 1999-2000 (\$4,000), 2002-2003 (\$11,000), 2004-2005 (\$8,000), 2006 (\$7,000).

POSTDOCTORAL Elizabeth Schermer (American; 1989-1992)
 RESEARCHERS: Lars Blikra (Norwegian; 1994-1995)
 Salvatore Critelli (Italian; 1995)
 Kari Bassett (American; 1995-1998)

GRADUATE Timothy Thompson (M.S., 1987), Unocal
 Anna V. Buissing (Ph.D., 1988) California State University , Hayward
 THESES William Morris (M.S., 1987, Ph.D., 1992) Philips, Anchorage
 Madeleine M. Fulford (M.S., 1991)
 SUPERVISED: Nancy R. Riggs (Ph.D., 1991) University of Northern Arizona
 Douglas P. Smith (Ph.D., 1991) CSU Monterey
 Benjamin Adams (Ph.D. 1997) UCLA
 Michael Richey (MS, 2002), Unocal
 Grant Yip (MS, 2003) PhD student, UCSB
 Noah Garrison (MS, 2004) UCLA Law School
 Hilario Camacho (Ph.D., 2004)
 Stephen DeOreo (MS, 2004)
 Fabrice Roullet (MS, 2006)
 Jeanette Hagan (PhD in progress)

TEACHING:	Optical Mineralogy	UC Berkeley	Fall, 1977
	Senior Field Camp	UC Berkeley	Spring, 1978
	Earth Materials	Princeton Univ.	Spring, 1979
	Field Camp	CalTech	Summer, 1979
	Mineralogy	Princeton Univ.	Fall, 1979; Fall, 1980
	Rocks	UC Santa Barbara	Winter, 1983
	Optical Mineralogy	UC Santa Barbara	Spring, 1983
	Summer Field Geology	UC Santa Barbara	Summer, 1983, 1984, 1985, 1988, 1995, 1996
	Clastic Dep. Envs.	UC Santa Barbara	Fall, 1983, 1985, 1988, 1991
	Sedimentology	UC Santa Barbara	Spring, 1984, 1985, 1986, 1987, 1988, 1991, 1992, 1993, 1994, 1995
	Sedimentary Tectonics	UC Santa Barbara	alternate years 1986-present
	Advanced Stratigraphy	UC Santa Barbara	alternate years, 1986-present
	Field Invest. in Geol.	UC Santa Barbara	Fall, 1985
	Physical Geology	UC Santa Barbara	Fall, 1991, Spring 2004
	Turbidite Sedimentology	UC Santa Barbara	each third year, 1990-present
	Depositional Systems	UC Santa Barbara	Winter 1992, 1993, 1996

Volcaniclastic Rocks	UC Santa Barbara	Fall 1993, Spring 2004
Geologic Catastrophes	UC Santa Barbara	Winter 1993-2006
Physical Stratigraphy	UC Santa Barbara	Fall, 1994, 1995
Sed. & Strat.	UC Santa Barbara	Fall 1996-Fall 2006
Sequence Stratigraphy	UC Santa Barbara	Winter 2001
Baja California Trip to Tip	UC Santa Barbara	Winter 2003
Geology of Mexico	UC Santa Barbara	Winter 2005
Volcanology	UC Santa Barbara	Spring 2006
Field Camp	UC Santa Barbara	Summer 2005, 2006

PROFESSIONAL ASSOCIATIONS: Geological Society of America
American Association of Petroleum Geologists
American Geophysical Union
Society of Sedimentary Geologists (S.E.P.M.)
International Association of Sedimentologists
Society of Women Geographers
International Association of Volcanologists (I.A.V.C.E.I.)

BOOKS PUBLISHED:

Tectonics of Sedimentary Basins, by C.J. Busby and R.V. Ingersoll 1995, Blackwell Science, Oxford, 579 pp.

A. PUBLICATIONS - (excluding abstracts)

1978

Saleeby, J. B., Goodin, S. E., Sharp, W. E., and Busby-Spera, C. J., Early Mesozoic paleogeographic-paleotectonic reconstruction of the southern Sierra Nevada region, in Howell, D. G., and McDougall, K. A. (eds.), Mesozoic Paleogeography of the Western United States, SEPM Paleogeog. Symposium 2, p. 311-336.

1984

Busby-Spera, C. J., The lower Mesozoic continental margin and marine intra-arc sedimentation at Mineral King, California, in Bachman, S., and Crouch, J., eds., Tectonics and Sedimentation Along the California Margin, Pac. Section, Soc. Econ. Paleontologists and Mineralogists, Los Angeles, Calif., p. 135-156.

Busby-Spera, C. J., Large-volume rhyolite ash-flow eruptions and submarine caldera collapse in the lower Mesozoic Sierra Nevada, California: Jour. Geophys. Res., v. 89, no. B10, p. 8417-8427.

1985

Busby-Spera, C. J., A sand-rich submarine fan in the lower Mesozoic Mineral King caldera complex, Sierra Nevada, California: *Jour. Sed. Petrology*, v. 55, p. 376-391.

1986

Busby-Spera, C. J., Depositional features of rhyolitic and andesitic volcaniclastic rocks of the Mineral King submarine caldera complex, Sierra Nevada, California: *Jour. Volcanology and Geothermal Res.*, v. 27, p. 43-76.

Busby-Spera, C. J., and Boles, J. R., Sedimentation and subsidence styles in a Cretaceous forearc basin, southern Vizcaino Peninsula, Baja California, Mexico, in Abbott, P. L., (ed.), *Cretaceous Stratigraphy, Western North America*, Pac. Section, Soc. Econ. Paleontologists and Mineralogists, p. 79-90.

Saleeby, J., and Busby-Spera, C. J., Fieldtrip guide to metamorphic framework rocks of the Lake Isabella area, southern Sierra Nevada, California, in Dunne, G. C. (ed.), *Mesozoic and Cenozoic Structural Evolution of Selected Areas, East-Central California: Guidebook and Volume*, Geol. Soc. America Cordilleran Section Meeting, p. 81-94.

1987

Busby-Spera, C. J., and Saleeby, J. B., Geologic guide to the Mineral King area, Sequoia National Park, California: Soc. Econ. Paleontologists and Mineralogists, Pac. Section, 44 pp.

Busby-Spera, C. J., Lithofacies of deep marine basalts emplaced on a Jurassic backarc apron, Baja California (Mexico): *Jour. of Geology*, v. 95, p. 671-686.

White, J. D. L., and Busby-Spera, C. J., Deep marine arc apron deposits and syndepositional magmatism in the Alisitos Group at Punta Cono, Baja California, Mexico: *Sedimentology*, v. 34, no. 5, p. 911-927.

Busby-Spera, C. J., and White, J. D. L., Variation in peperite textures associated with differing host sediment properties: *Bull. Volcanology*, v. 49, no. 6, p. 765-776.

1988

Busby-Spera, C. J., Evolution of a Middle Jurassic back-arc basin, Cedros Island, Baja California: Evidence from a marine volcaniclastic apron: *Geol. Soc. America Bull.*, v. 100, p. 218-233.

Busby-Spera, C. J., Morris, W., and Abbott, P., Field Trip Guide to Selected Cretaceous Rocks of Baja California Norte: Geol. Soc. America Cordilleran Section. GUIDEBOOK

Busby-Spera, C. J., Development of fan-deltoid slope aprons in a convergent-margin tectonic setting: Mesozoic, Baja California, Mexico, in, Fan-deltas: Sedimentology and Tectonic Setting, W. Nemec and R. Steel (eds.), Blackie and Son, p. 419-429.

Morris, W. R., and Busby-Spera, C. J., Sedimentologic evolution of a submarine canyon in a forearc basin, Late Cretaceous Rosario Formation, San Carlos, Mexico: Am. Assoc. Petroleum Geologists, v. 72/6, p. 717-737.

Busby-Spera, C. J., Speculative tectonic model for the Early Mesozoic arc of the southwest Cordilleran United States: Geology, v. 16, p. 1121-1125.

1989

Morris, W. R., Smith, D. P., and Busby-Spera, C. J., Conglomerate facies and processes in deep marine Cretaceous forearc basins of Baja California, Mexico, in, I. Colburn and P. Abbott (eds.), Conglomerates and Basin Analysis, Soc. Econ. Mineralogists and Petrologists Pacific Section, p. 123-142.

Busby-Spera, C. J., Book review of "New Perspectives in Basin Analysis", edited by K. L. Kleinspehn and C. Paola, Springer-Verlag, N.Y., 1988, 453 pp., published in Sedimentology, June, 1989, p. 733-734. BOOK REVIEW

1990

Busby-Spera, C. J. and Saleeby, J. B., Intra-arc strike slip fault exposed at batholithic levels in the southern Sierra Nevada, California: Geology, v. 18, p. 255-259.

Busby-Spera, C. J., Comment and reply on "Speculative tectonic model for the Early Mesozoic arc of the southwest Cordilleran United States": Geology, v. 18, no. 3, p. 285-286. REPLY

Busby-Spera, C. J., Mattinson, J. M., Riggs, N. R., and Schermer, E. R., The Triassic-Jurassic magmatic arc in the Mojave-Sonoran deserts and the Sierran-Klamath region; similarities and differences in paleogeographic evolution: In D. Harwood and M. M. Miller, eds., Paleozoic and Early Mesozoic Paleogeographic Relations; Sierra Nevada, Klamath Mountains, and related terranes: Geol. Soc. America Special Paper, v. 255, p. 325-338.

Morris, W. R., and Busby-Spera, C. J., A submarine fan valley-levee complex in the Upper Cretaceous Rosario Formation, Baja California: Implications for turbidite facies models: Geol. Soc. America Bull., v. 102, p. 900-914.

Riggs, N. R., and Busby-Spera, C. J., Evolution of a multi-vent volcanic complex within a subsiding arc graben depression: Mount Wrightson Formation, southern Arizona. *Geol. Soc. America Bull.*, v. 102, no. 8, p. 1114-1135.

1991

Renne, P. R., Fulford, M. M., and Busby-Spera, C. J., High resolution $^{40}\text{Ar}/^{39}\text{Ar}$ chronostratigraphy of the Late Cretaceous El Gallo Formation, Baja California de Norte, Mexico: *Geophys. Research Letters*, v. 18, no. 3, p. 459-462.

Smith, D. P., Sedlock, R. L., Kimbrough, D. L., and Busby-Spera, C. J., Mesozoic geology of Cedros Island: *GSA Annual Meeting Field Trip Guide*, San Diego, 20 p.

Riggs, N. R., and Busby-Spera, C. J., Facies analysis of an ancient large caldera complex and implications for intra-arc subsidence: middle Jurassic Cobre Ridge Group, Southern Arizona, USA: *Sedimentary Geology, Special Issue on Volcanogenic Sedimentation*, R. Cas and C. Busby-Spera (eds), v. 74, nos. 1-4, p. 39-70.

1992

Kokelaar, B. P., and Busby C. J., Subaqueous explosive eruption and welding of pyroclastic deposits: *Science*, Full Article, v. 257, p. 196-201.

Saleeby, J. B., and Busby-Spera, C. J., Early Mesozoic evolution of the western U.S. Cordillera, In B. C. Burchfiel, P. W. Lipman and M. L. Zoback (eds.) *The Cordilleran Orogen: Conterminus United States: Decade of North American Geology*, Geological Society of America, v. G-3, p. 107-168.

1993

Saleeby, J. B., and Busby, C. J., Paleogeographic and tectonic setting of axial and western metamorphic framework rocks of the southern Sierra Nevada, California: In G. Dunne and K. McDougall (eds), *Mesozoic paleogeography of the western United States: Society for Sedimentary Geology (S.E.P.M.) Pacific Section*.

Smith, D. P., and Busby, C. J., Cretaceous extension and Tertiary translation along the southwest edge of North America? Answers from the Valle Group, Vizcaino terrane: In G. Dunne and K. McDougall (eds), *Mesozoic paleogeography of the western United States: Society for Sedimentary Geology (S.E.P.M.) Pacific Section*.

Smith, D. P., and Busby, C. J., Mid-Cretaceous crustal extension recorded in deep-marine half-graben fill, Cedros Island, Mexico. *Geol. Soc. America Bull.*, v. 105, p. 547-562.

Smith, D. P., and Busby-Spera, C. J., Lithostratigraphy of Cretaceous strata, Cedros Island, Baja California, Mexico: Vargas and Pinos formations defined. *Cretaceous Research*, v. 14, p. 337-364.

Smith, D. P., and Busby-Spera, C. J., Shallow magnetic inclinations in the Cretaceous Valle Group, Baja California: Remagnetization, compaction or terrane translation?: *Tectonics*, v. 12, no. 5 p. 1258-1266.

Riggs, N. R., Mattinson, J. M., and Busby, C. J., Correlation of Mesozoic eolian strata between the magmatic and the Colorado Plateau: New U-Pb geochronologic data from southern Arizona: *Geol. Soc. America Bull.*, v. 105, no. 9, p. 1231-1246.

1994

Schermer, E. R. and Busby, C. J., Jurassic magmatism in the central Mojave Desert: implications for arc paleogeography and preservation of continental volcanic sequences: *Geol. Soc. America Bull.*, v. 106, p. 767-790.

Fleck, R. J., Mattinson, J. M., Busby, C. J., Carr, M. D., Davis, G.A., and Burchfiel, B. C., Isotopic complexities and the age of the Del Norte volcanic rocks, eastern Mescal Range, southeastern California: Stratigraphic and tectonic implications: *Geol. Soc. America Bull.*, v. 106, p. 1254-1266.

Fulford, M. M., and Busby-Spera, C. J., Tectonic controls on nonmarine sedimentation in a Cretaceous forearc basin, Baja California, Mexico: In, R. Steel and L. Frostick (Eds.), *Tectonics and Sedimentation*, IAS Spec. Pub. 20, p. 301-333.

1995

Smith, D. P., and Busby, C. J., Reply to a comment on "Shallow magnetic inclinations in the Cretaceous Valle Group, Baja California: Remagnetization, compaction, or terrane translation?": *Tectonics*, v.14, no. 1, p.220-222.

Ingersoll, RV and Busby, CJ, Tectonics of sedimentary basins: In, CJ Busby and RV Ingersoll (Eds.), *Tectonics of Sedimentary Basins*, Blackwell Science, p. 1-52.

1996

Morris, W.R. and Busby, C.J., The effects of tectonism on the high resolution sequence stratigraphic framework of nonmarine to deep marine deposits in the Peninsular Ranges forearc basin complex: In, P.L. Abbott, and J.D. Cooper

(Eds), American Association of Petroleum Geologists Field Conference Guide Book 73, p.381-408.

1997

Adams, B.N., Busby, C.J. and Mattinson, J.M., Jurassic magmatism and sedimentation in the Palen Mountains, southeastern California: Implications for regional tectonic controls on the Mesozoic magmatic arc: *Geol. Soc. America Bull.*, v. 109, p. 1464-1484.

Kneller, B, Busby, C.J. and McCaffrey, W., Field guide to turbidite systems of the Alpes Maritimes and Haute Provence, SE France, 60 pp.

1998

Busby, C.J., Smith, D.P., Morris, W.R. and Adams, B, Evolutionary model for convergent margins facing large ocean basins: Mesozoic Baja California (Mexico): *Geology*, v. 26, no. 3, p. 227-230.

Fackler-Adams, B.N. and Busby, C.J., Structural and stratigraphic evolution of extensional oceanic arcs: *Geology*, v. 26, no. 8, p. 735-738.

Kneller, B, Busby, C.J., and Cronin, B., Field guide to turbidites of the Annot Sandstone, Maritime Alps, France, and the Hecho Group, Central Pyrenees, Spain, 100 pp.

1999

Busby, C.J., Field trip review of “Southern Etendeka volcanism, northwestern Namibia: I.A.V.C.E.I. (International Association of Volcanologists) Newsletter.

2000

Busby, C.J., Review of “Integrated Earth and Environmental Evolution of the Southwest United States”: EOS, American Geophysical Union Newsletter.

2002

Busby, C.J., Yip, G., Blikra, L., and Renne, P., Pacific margin example of catastrophic sedimentation triggered by K/T bolide impact: *Geology*, v. 30, p. 687– 690.

Critelli, S., Marsaglia, K., and Busby, C., Tectonic and sedimentary controls on the composition of backarc volcanoclastic rocks; *Geological Society of America Bulletin*, v. 114, no. 5, p. 515 – 527.

Camacho, H., Busby, C.J., and Kneller, B.C., A new depositional model for the classical turbidite locality at San Clemente State Beach, California: American Association of Petroleum Geologists Bulletin, v. 86, no. 9, p. 1543-1560.

Schermer, E.R., Busby, C.J. and Mattinson, J.M., Paleogeographic and tectonic implications of Jurassic sedimentary and volcanic sequences in the west-central Mojave desert; GSA Memoir 195, Mojave Desert (A. Glazner, J.D. Walker and J.M. Bartley, eds) p. 93 – 116.

Busby, C.J., Schermer, E.R. and Mattinson, J.M., Extensional arc setting and ages of Middle Jurassic eolianites, Cowhole Mountains (Mojave Desert, CA): GSA Memoir 195 (A. Glazner, J.D. Walker and J.M. Bartley, eds), Geologic Evolution of the Mojave desert and Southwestern Basin and Range, p. 79 – 92.

2003

Kessell, L. and Busby, C.J., Analysis of VHMS-Hosting Ignimbrites Erupted at Bathyal Water Depths (Ordovician Bald Mountain Sequence, Northern Maine), in, J. White, J. Smellie and D. Clague (eds), Explosive Subaqueous Volcanism: American Geophysical Union, Geophysical Monograph Series, v. 140, p. 372-392.

2004

Busby, C.J., Kessel, L., Schulz, K., Foose, M., and Slack, J., Volcanic setting of the Ordovician Bald Mountain Massive Sulfide Deposit, Northern Maine: in, W. Goodfellow, S.R. McCutcheon and J.M. Peter (eds.), Massive Sulfide Deposits of the Bathurst Mining Camp, New Brunswick and Northern Maine: Economic Geology Monograph 11, p. 219-244 plus 2 large plates in back pocket.

Foose, M.F., Slack, J.F., Busby, C.J., Schulz, K.J. and Scully, M.V., Geologic and structural setting of the Bald Mountain volcanogenic massive sulfide deposits, northern Maine - CU-Zn-Au-Ag mineralization in a synvolcanic sea floor graben: in, W. Goodfellow, S.R. McCutcheon and J.M. Peter (eds.), Massive Sulfide Deposits of the Bathurst Mining Camp, New Brunswick and Northern Maine: Economic Geology Monograph 11, p. 497-512.

Busby, C.J., Skilling, I., Rood, D., DeOreo, S. and Gans, P., Cenozoic volcanology and structural geology of the Carson Pass – Sonora Pass areas, Central Sierra Nevada, California: Field Guide, Volcanological Society of Sacramento Annual Field Trip, July 21-25, 2004.

Busby, C.J., Continental growth at convergent margins facing large ocean basins: a case study from Mesozoic Baja California, Mexico: *Tectonophysics*, v. 392, p. 241-277.

2005

Bassett, K. and Busby, C., Structure and tectonic setting of an intra-arc strike-slip basin (Bisbee Basin, Southern Arizona: *in*, T.H. Anderson, J.A. Nourse, J.W. McKee and M.B. Steiner, (eds), *The Mojave-Sonora megashear hypothesis: Development, assessment, and alternatives*: Geological Society of America Special Paper 393, p. 359-376.

Busby, C.J., Bassett, K., Steiner, M.B. and Riggs, N.R., Climatic and tectonic controls on Jurassic intra-arc basins related to northward drift of North America, *in*, T.H. Anderson, J.A. Nourse, J.W. McKee and M.B. Steiner, (eds), *The Mojave-Sonora megashear hypothesis: Development, assessment, and alternatives*: Geological Society of America Special Paper 393, p. 359-376.

Busby, C.J., Possible distinguishing characteristics of deepwater silicic volcanism: *Geology*, v. 33, no. 11, p. 845-848.

2006

Busby, C. J., Fackler Adams, B., and Mattinson, J., and De Oreo, S., View of an intact oceanic arc, from surficial to mesozonal levels: Cretaceous Alisitos Arc, Baja California, Mexico: *Journal of Volcanology and Geothermal Research*, v. 149, p.1 - 46.

In press

Busby, C.J. and Bassett, K., Volcanic facies architecture of an intra-arc strike-slip basin, Santa Rita Mountains, Arizona: *Bulletin of Volcanology*, 24 ms pp.

Busby, C., DeOreo, S., Skilling, I., Gans, P, and Hagan, J., Carson Pass-Kirkwood paleocanyon system: implications for the Tertiary evolution of the Sierra Nevada, California: *Geological Society of America Bulletin*, 47 ms pp.

Busby, C.J., Hagan, J., Putirka, K., Pluhar, C., Gans, P., Rood, D., DeOeo, S., Skilling, I. and Wagner, D., The ancestral Cascades arc: Implications for the development of the Sierran microplate and tectonic significance of high K₂O volcanism: *Geological Society of America Special Paper, Hopson Volume*, 52 ms pp.

Garrison, N.J., Busby, C.J., Gans, P. and Wagner, D., A mantle plume beneath California? The Mid-Miocene Lovejoy flood basalt, northern California: Geological Society of America Special Paper, Hopson Volume, 38 ms pp.

Submitted

Putirka, K., and Busby, C.J., The tectonic significance of high K₂O volcanism in the Sierra Nevada, California: *Geology*, 13 ms pp.