

## Dr. Sean P. S. Gulick

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### Research Interests

- Seismic reflection, ocean drilling, and submersible studies of convergent margins to examine tectonic influences, structural deformation, fluid flow, and earthquake hazards
- Imaging and geologic sampling of *in situ* tectonic and crater laboratories: microplates, triple junctions, transitional plate boundaries, and bolide impacts
- Quantitative high-resolution marine geological and geophysical studies of strata formation and deformation associated with glacial-interglacial cycles on active and passive margins

### Employment

Research Scientist, University of Texas Institute for Geophysics	<b>Aug. 2007-Present</b>
Research Associate, University of Texas Institute for Geophysics	<b>Dec. 2001- July 2007</b>
Post-doctoral Fellow, University of Texas Institute for Geophysics	<b>June 1999-Nov. 2001</b>

### Education

Ph.D. in Geological Sciences, Lehigh University, Bethlehem, Pennsylvania	<b>1999</b>
Dissertation: "Seismic studies of the southern Cascadia subduction zone near the Mendocino triple junction," Advisor: A. Meltzer, Committee: B. Carson, D. Anastasio, S. Clarke, Jr. (USGS), and J. Diebold (LDEO).	
Bachelor of Science in Geology, Minor in Marine Sciences, University of North Carolina, Chapel Hill, North Carolina, Advisor: Christine Powell.	<b>1993</b>

### Field Experience

#### Imaging and modeling impact generated deformation at the Chicxulub Crater

Co-Chief Scientist, Seismic Imaging on R/V *Maurice Ewing* **Jan.-Feb., 2005**

#### High-resolution imaging and sampling of Alaskan glacial sedimentation

Seismic Acquisition Specialist during Seismic Imaging, Swath Mapping, and Sediment Coring cruise on R/V *Maurice Ewing* **Aug.-Sept., 2004**

#### Nankai Subduction Margin ROV and Submersible Studies of Active Venting

Shipboard Geologist, ROV studies aboard M/V *Kairei* **July-Aug. 2002 & May-June 2003**

Visiting Scientist, Ocean Research Institute including leg aboard M/V *Yokosuka* **July 2000**

#### Office of Naval Research's Geocloud marine acoustics research program

Shipboard Scientist, Shallow drilling of New Jersey margin on R/V *Knorr* **Sept.-Oct. 2002**

Shipboard Geophysicist, 2-D and 3-D CHIRP seismic on R/V *Endeavor* **Aug.-Sept. 2001**

Shipboard Scientist, Grab sampling and coring on R/V *Cape Henlopen* **July-Aug. 2001**

#### Ocean Drilling Program Leg 196: Nankai Trough accretionary prism fluid flow

Logging Specialist, Logging while drilling on JOIDES *Resolution* **Jan.-Feb. 2001**

#### Investigation of Nankai Subduction Thrust Seismicity and Fault Properties

Shipboard Geophysicist, 3-D Seismic off Japan on R/V *Maurice Ewing* **June-Aug. 1999**

#### Mendocino Triple Junction Seismic Experiment, Lehigh University

Shipboard Geophysicist, Seismic imaging off California on *R/V Maurice Ewing* **June 1994**  
National Undersea Research Program: Oregon and Washington seafloor deformation  
 Shipboard Geologist, Submersible/ROV studies on the *M/V Laney Choest* **Oct. 1996 & 1997**  
Eel River Basin Gas Hydrate Study  
 Shipboard Geologist, ROV studies aboard the *R/V Point Lobos* **Aug. 1997**

**Graduate Students**

Ms. Kylara Martin, UT DGS, Research Advisor **Ph.D. Expected, 2011**  
 Ms. Lindsay Lowe, UT DGS, Research Advisor **Ph.D. Expected, 2010**  
 Mr. Bryce Willems, Northern Illinois Univ., Committee Member **Ph.D. Expected, 2008**  
 Mr Ryan Elmore, UT DGS, Research Advisor **M.S. Expected, 2008**  
 Ms. Emily Pangborn, UT DGS, Committee Member **M.S. Expected, 2007**  
 Ms. Zulmacristina Pearson, UAF, Committee Member **M.S. Expected, 2007**  
 Ms. Keren Mendoza, UNAM, Committee Member **M.S., 2007**  
 Mr. Matt McDonald, UT DGS, Research Advisor **M.S., 2006**  
 Dr. Sylvia Nordfjord, UT DGS Ph.D. Candidate, Research Collaborator **Ph.D., 2005**  
 Mr. David Gorney, UT DGS M.S. Candidate, initial Research Advisor **M.S., 2004**  
 Dr. Robert Burger, UT DGS Ph.D, Research Collaborator **Ph.D., 2000**

**Funding History**

Grant Number	Title	PI(s)	Start Date	End Date	Award
OCE-0623165	Exploring structural controls on great earthquake rupture and architecture of the Sumatra-Andaman convergent margin: A regional seismic reflection survey in collaboration with the UK-National Oceanographic Center	Gulick Bangs Austin	Oct. 01, 2007	Sept. 30, 2009	\$350,072
OCE-0452340	NanTroSEIZE: 3-D Seismic investigation the Nankai Trough plate boundary system in the Kumano Basin	Bangs Gulick	March 01, 2005	February 28, 2010	\$496,380
JOI/USSSP 200402646-001	Toward a sequence stratigraphy of the Chicxulub impact basin infill: Integration of lithostratigraphy, biostratigraphy, and seismic stratigraphy	Gulick	March 01, 2005	February 28, 2006	\$8,618
EAR-0408584	Collaborative Research: St. Elias Tectonics and Erosion Project (STEEP)	Gulick, Christeson, Mann, van Avendonk	August 01, 2004	July 31, 2009	\$769,119
OCE-0351620	Collaborative Research: Establishing Quaternary Climate/Terrestrial/ Oceanic Linkages in southern Alaska and IODP	Gulick	May 01, 2004	April 31, 2006	\$81,108

Site Survey					
OCE-0221103	Collaborative Research: Imaging and Modeling Impact Generated Deformation at the Chicxulub Crater, Joint US/UK/Mexico Investigation and IODP Site Survey	Gulick, Christeson	January 01, 2003	December 31, 2006	\$347,497 + supplement of \$175,647
EAR-0237008	Joint Continental Dynamics/JOI Workshop on Tectonic and Climate Interplay in the Gulf of Alaska	Gulick	April 01, 2003	March 31, 2004	\$24,804
GEO-0224501	Cataclysms and Catastrophes – The Role of Science in Natural and Human-Induced Disasters	Ellins, Gutierrez, Gulick, Christeson	Oct 01, 2002	September 30, 2004	\$152,126
JOI/USSSP S20265550	Site Augmentation in the Nankai Trough	Gulick	April 01, 2003	March 31, 2004	\$9,075
JOI/USSSP 418929-BA357	Investigation of Fluid Flow Indicators in Nankai Accretionary Prism 3-D Seismic Data through Seismic-LWD Integration at Frontal Thrust	Gulick	July 02, 2001	May 04, 2002	\$27,611

### Awards and Honors

Jackson School of Geosciences Research Achievement Award	<b>2007-2009</b>
Joint Oceanographic Institutions Distinguished Lectureship	<b>2007-2008</b>
Jackson School of Geosciences Research Fellowship	<b>2006-2007</b>
Jackson School of Geosciences Young Scientist Fellowship	<b>2005-2006</b>
Japanese Marine Science and Technology honorarium for Shinkai 6500 cruise	<b>2000</b>
Palisades Geophysical Institute Postdoctoral Fellow	<b>1999-2002</b>
Geological Society of America Annual Meeting Travel Grant	<b>1998</b>
Lehigh University College of Arts and Sciences Travel Grant	<b>1998</b>
Lehigh University Earth and Environmental Sciences Research Grant	<b>1997</b>
Best Student Paper Award, Seismological Society of America Eastern Section	<b>1993</b>

### Invited Lectures

“Bolide impact hazards: Lessons from Chicxulub and smaller events:, IODP Geohazards Workshop, Portland, Oregon	<b>2007</b>
“Imaging and Drilling the Chicxulub Impact Crater”, Seminar Series, Universidad Nationale Autonoma Mexico, Mexico City, Mexico	<b>2007</b>
“Subduction Zones: A story of deformation, dewatering, and great earthquakes,” Foster-Hewitt Lecture Series, Lehigh University, Bethlehem, PA	<b>2004</b>
“3-D images of the outer Nankai accretionary margin: Reconstructing a prism,” Seminar	

Series, University of Florida, Gainesville, FL	2003
“Tectonic interplay between oblique subduction and Mendocino triple junction migration along the southern Cascadia subduction zone, offshore northern California,” GSA Penrose Conference: Great Cascadia Earthquake Tricentennial, Seaside, OR	2000
“Mendocino triple junction influence on and neotectonic implications of seismically imaged Quaternary faulting in the offshore Eel River forearc basin, northern California,” 2000 PANGA meeting, Corvallis, OR	2000

### Teaching Experience

<u>Team Teaching</u> , <i>Tectonics</i> , University of Texas	2006-2008
<u>Guest Lecturer</u> , <i>Tectonics</i> , University of Texas	2001-2005
<u>Substitute Lecturer</u> , <i>Seismology, Rocks and Minerals, Sedimentology, and Geographic Information Systems</i> , Lehigh University	1997-1998
<u>Teaching Assistant</u> , <i>Seismology, Geographic Information Systems, Structural Geology, Hydrogeology, and Introduction to Geology</i> , Lehigh University	1995-1998

### Workshops Attended and Committee Service

Member of the Site Survey Panel of IODP	2007-2011
Co-chair IODP-MI Depth Scale meeting, Texas A&M University	2006
IODP-ICDP Chicxulub Drilling Workshop, Steering Committee	2006
1 <sup>st</sup> International Conference on Impact Cratering in the Solar System, ESA, Netherlands	2006
GSA Backbone of the Americas meeting, Mendoza Argentina	2006
International Core-Log-Seismic Integration Workshop, Keynote Speaker	2005
GSA Penrose Conference: Arc-Continent Collisions	2005
International 3-D Seismic Workshop, Lamont-Doherty Earth Observatory	2005
Member of the Scientific Measurements and Science Technology Panels of IODP	2003-2005
IODP Downhole Tools Workshop	2004
Member of the interim Scientific Measurements Panel (iSciMP) of IODP	2002-2003
Co-convenor of Joint NSF-JOI Tectonic-Climate Interplay Workshop	2003
3 <sup>rd</sup> International Conference on Large Meteorite Impacts	2003
University of Delaware research vessel advisory committee	2001-2003
R/V Maurice Ewing Midlife Refit Workshop	2002
NanTroSEIZE conference on Riser Drilling in Nankai Trough	2002
Conference on U.S. Participation in IODP (CUSP)	2002
Leg 190/196 2 <sup>nd</sup> Post-cruise Meeting in Kochi, Japan	2002
NSF-MARGINS Source-to-Sink planning workshop in Lake Tahoe, California	2000
PANGA GPS workshop to interface with EARTHSCOPE’s Plate Boundary Observatory	2000
NSF sponsored workshop on the Mendocino triple junction, Menlo Park, California	1994

## **Professional Affiliations**

American Geophysical Union, Geological Society of America, Union of Concerned Scientists

## **Publications**

### **Journal Articles (\* denotes student first author)**

#### *In Preparation (3)*

**Gulick, S.**, McDonald, M., Mendoza, K., Christeson, G., Urrutia, J., and Gorney, D., Structure of the Chicxulub peak ring and terrace zone: *Earth and Planetary Science Letters*, in preparation.

Bangs, N.L.B., Moore, G.F., Pangborn, E.M., **Gulick, S.P.S.**, Tobin, H., Massive, Episodic Sediment Subduction beneath Nankai Trough Splay Faults: *Nature*, in preparation.

Christeson, G.L., Morgan, J.V., Warner, M.R., Barton, P.J., Gulick, S.P.S., Collins, G., Upwarping of mantle beneath the Chicxulub impact crater: *Nature Geosciences*, in preparation.

#### *Submitted (1)*

Mosher, D.C., J.A. Austin, Jr., D. Fisher, and S.P. Gulick, Deformation of the northern Sumatra accretionary prism: evidence for strain partitioning from high-resolution seismic reflection profiles and ROV observations: *Marine Geology*, submitted, June 2007.

#### *In Revision (2)*

**Gulick, S.**, Barton, P., Christeson, G., McDonald, M., Mendoza, K., Morgan, J., Pearson, Z., Surrendra, A., Urrutia, J., Vermeesch, P., Warner, M., Importance of pre-impact crustal structure in the asymmetry of the Chicxulub impact crater: *Nature Geosciences*, in revision, August, 2007.

McDonald, M.\*, **Gulick, S.**, Melosh, J., Oblique impacts and peak ring position: Comparing Venusian craters to Chicxulub: *Geophysical Research Letters*, in revision, August, 2007.

#### *Accepted (1)*

Lowe, L.\*, **Gulick, S.**, Pavlis, T., Bruns, R., Mann, P., Localized deformation zones in the offshore leading edge of the Yakutat microplate, Gulf of Alaska: *AGU Monograph*, accepted, August 2007.

#### *Published (23)*

**Gulick, S. P. S.**, Lowe, L., Pavlis, T., Mayer, L., 2007, Gardner, J., Geophysical insights into the Transition fault debate: Propagating strike-slip in response to stalling Yakutat block subduction in the Gulf of Alaska: *Geology*, v. 35, p. 763–766; doi: 10.1130/G23585A.

Fisher, D., Mosher, D., Austin, J. A., Jr., **Gulick, S. P. S.**, Masterlark, T., and Moran, K., Active deformation across the Sumatran forearc over the December 2004 Mw9.2 rupture, *Geology*, v. 35., pp. 99-102, DOI: 10.1130/G22993A.1, 2007.

Nordfjord, S.\*, Goff, J. A., Austin, J. A., Jr., **Gulick, S. P. S.**, Seismic facies of incised valley-fills, New Jersey continental shelf: Implications for erosion and preservation processes acting during latest Pleistocene-Holocene transgression: *J. Sed. Res.*, v. 76, p. 1284-1303, DOI: 10.2110/jsr.2006.108, 2006.

Bangs, N. L., **Gulick, S. S.**, and Shipley, T. H., 2006, Seamount subduction erosion in the Nankai Trough and its potential impact on the seismogenic zone: *Geology*, v. 34, no. 8, p. 701-704, 2006.

Morgan, J., Warner, M., Urrutia-Fucugauchi, J., **Gulick, S.**, Christeson, G., Barton, P.,

- Rebolledo-Vieyra, M., and Melosh, J., New Seismic Survey Over Chicxulub Prepares for Future Drilling Into the Crater, EOS, Transactions American Geophysical Union, v. 86, p. 325-328, 2005.
- Gulick, S. P. S.**, Goff, J. A., Austin, J. A., Jr., Alexander, C. R., Jr., Nordfjord, S., and Fulthorpe, C. S., Basal inflection-controlled shelf-edge wedges off New Jersey track sea-level fall: *Geology*, v. 33, no. 5, p. 429-432, 2005.
- Goff, J. A., Austin, J. A., Jr., **Gulick, S.**, Nordfjord, S., Christensen, B., Sommerfield, C., Olson, H., and Alexander, C., Recent and Modern Marine Erosion on the New Jersey Outer Shelf, *Marine Geology*, v. 216, p. 275-296, 2005.
- Goldberg, D., Cheng, A., **Gulick, S.**, Blanch, J., and Byun, J.-M., Velocity analysis of LWD sonic data in turbidites and hemipelagic sediments offshore Japan, ODP sites 1173 and 808, *Proc. Ocean Drilling Prog., Sci. Res.*, v. 190/196, 2005.
- Gulick, S.**, Jaeger, J., Freymueller, J., Koons, P., Pavlis T., and Powell, R. Examining tectonic-climatic interactions in Alaska and the northeast Pacific Ocean, EOS, Transactions American Geophysical Union, v. 85, no. 43, p. 433, 438-439, 2004.
- Gulick, S. P. S.**, and Bangs, N. L. B., Negative-polarity at the frontal thrust, is free gas the culprit?: Insights from Nankai accretionary prism off Cape Muroto using seismic-logging integration, *Proc. Ocean Drilling Prog., Sci. Res.*, v. 190/196, 2004.
- Bangs, N. L. B., and **Gulick, S. P. S.**, Physical properties along the developing décollement in the Nankai Trough: Inferences from 3-D seismic reflection data inversion and Leg 190 and 196 drilling data, *Proc. Ocean Drilling Prog., Sci. Res.*, v. 190/196, 2004.
- Goff, J. A., Kraft, B. J., Mayer, L. A., Schock, S. G., Sommerfield, C. K., Olson, H. C., **Gulick, S. P. S.**, and Nordfjord, S., Seabed characterization on the New Jersey middle and outer shelf: Correlability and spatial variability of seafloor sediment properties, *Mar. Geol.*, 209, 147-172, 2004.
- Gulick, S. P. S.**, Bangs, N. L. B., Shipley, T. H., Nakamura, Y., Moore, G., and Kuramoto, S., 3-D Architecture of the Nankai Accretionary Prism's Imbricate Thrust Zone off Cape Muroto, Japan: Prism Reconstruction via *En Echelon* Thrust Propagation, *Journal of Geophysical Research*, v. 109, B02105, 2004.
- Bangs, N. L. B., Shipley, T. H., Moore, G. F., **Gulick, S. P. S.**, and Nakamura, Y., Evolution of the Nankai Trough Décollement from the Trench into the Seismogenic Zone: Inferences from 3-D Seismic Reflection Imaging, *Geology*, v. 32, p. 273-276, 2004.
- Mikada, H., Kinoshita, M., Becker, K., Davis, E. E., Meldrum, R. D., Flemings, P., **Gulick, S.**, Matsubayashi, O., Morita, S., Goto, S., Misawa, N., Fujino, K., and Toizumi, M., Hydro-geological and geothermal studies around Nankai trough (KR02-10 Nankai Trough Cruise Report), *JAMSTEC J. Deep Sea Res.*, 22: 125-171, 2003.
- Gulick, S. P. S.**, and Meltzer, A. S., Effect of the northward migrating Mendocino triple junction on the Eel River forearc basin, California: Structural Evolution, *GSA Bulletin*, v. 114, p. 1505-1519, 2002.
- Burger, R. L., Fulthorpe, C. S., Austin, J. A., and **Gulick, S. P. S.**, Lower Pleistocene to present structural deformation and sequence stratigraphy of the continental shelf, offshore Eel River Basin, northern California, *Marine Geology*, v. 185, p. 249-281, 2002.
- Gulick, S. P. S.**, Meltzer, A. S., and Clarke, S. H., Jr., Effect of the northward migrating Mendocino triple junction on the Eel River forearc basin, California: Stratigraphic Development,

GSA Bulletin, v. 114, p. 178-191, 2002.

**Gulick, S. P. S.**, Meltzer, A. S., Levander, A., and Henstock, T., Internal deformation of the southern Gorda plate: Implications for plate boundary stresses north of the Mendocino triple junction, *Geology*, v. 29, p. 691-694, 2001.

Kuramoto, S., Ashi, J., Greinert, J., **Gulick, S.**, Ishimura, T., Morita, S., Nakamura, K., Okada, M., Okamoto, T., Rickert, D., Saito, S., Suess, E., Tsunogai, U., and Tomosugi, T., Surface observations of subduction related mud volcanoes and large thrust sheets in the Nankai subduction margin: Report on YK00-10 and YK01-04 cruises, *JAMSTEC Journal of Deep Sea Research*, v. 19, pp. 131-139, 2001.

Moore G. F., Taira, A., Bangs, N. L., Kuramoto, S., Shipley, T. H., Alex, C. M., **Gulick, S. S.**, Hills, D. J., Ike, T., Ito, S., Leslie, S. C., McCutcheon, A. J., Mochizuki, K., Morita, S., Nakamura, Y., Park, J.-O., Taylor, B. L., Toyama, G., Yagi, H., and Zhao, Z. Data Report: Structural setting of the ODP Leg 190 Muroto transect, in Moore, G.F., Taira, A., Klaus, A., et al., *Proc. ODP, Init. Repts.*, 190, p. 1-14 [CD-ROM], 2001.

**Gulick, S. P. S.**, Meltzer, A. S., Clarke, S. H., Jr., and Tréhu, A. M., Seismic study of the southern Cascadia subduction zone and accretionary prism north of the Mendocino triple junction, *Journal of Geophysical Research*, v. 103, pp. 27207-27222, 1998.

Tréhu, A. M., Lendl, C., Leitner, B., Meltzer, A., **Gulick, S.**, Holl, J., Levander, A., Henstock, T., Beaudoin, B., Godfrey, N., Hole, J., Klemperer, S., Clarke, S., Luetgert, J., and Mooney, W., Pulling the rug out from under California: Seismic images of the Mendocino triple junction region, *EOS*, v. 76, no. 38, pp. 369, 380-381, 1995.

### **Extended Abstracts Published (13)**

Morgan, J., Barton, P., Christeson, G., Gulick, S., Collins, G., Asymmetry of the Chicxulub Crater- Is It Produced by Asymmetry in the Target?, *Bridging the Gap II: Effect of Target Properties on the Impact Cratering Process*, Abstract 8028, 2007.

Barton, P. J., **Gulick, S. P. S.**, Morgan, J. V., Urrutia-Fucugauchi, J., Warner, M. R., Christeson, G., Rebolledo-Vieyra, M., New Geophysical Data from the Chicxulub Impact Crater, 40<sup>th</sup> ESLAB Symposium, First International Conference on Impact Cratering in the Solar System, European Space Agency, Abstract Book, pp. 23-24, 2006.

Christeson, G. L., **Gulick, S. P. S.**, Morgan, J., Warner, M., Barton, P., Moho Structure Beneath the Chicxulub Impact Crater, 40<sup>th</sup> ESLAB Symposium, First International Conference on Impact Cratering in the Solar System, European Space Agency, Abstract Book, p. 41, 2006.

**Gulick, S. P. S.**, Christeson, G. L., Morgan, J., Warner, M., Barton, P., Structure of the Multi-Ring Chicxulub Impact Crater: What Fault Patterns Tell Us About Pre-existing Structures, Impact Obliquity, and Crater Collapse. 40<sup>th</sup> ESLAB Symposium, First International Conference on Impact Cratering in the Solar System, European Space Agency, Abstracts, p. 85, 2006.

McDonald, M., **Gulick, S.**, Christeson, G., Mendoza, K., Gorney, D., Barton, P. J., The Terrace Zone Structure of the Chicxulub Impact Crater, Yucatan, Mexico, 40<sup>th</sup> ESLAB Symposium, First International Conference on Impact Cratering in the Solar System, European Space Agency, Abstracts, p. 139, 2006.

Mendoza-Cervantes, K., **Gulick, S. S.**, Urrutia-Fucugauchi, J., McDonald, M., Christeson, G. L., Barton, P. J., 3-D Image of the Chicxulub Crater Peak Ring Based on 2-D Seismic Reflection

- Profiles from R/V Maurice Ewing 2005 Survey, 40<sup>th</sup> ESLAB Symposium, First International Conference on Impact Cratering in the Solar System, European Space Agency, Abstracts, p. 145, 2006.
- Morgan, J., Warner, M., Urrutia-Fucugauchi, J., **Gulick, S.**, Christeson, G., Barton, P., Rebolledo-Vieyra, M., Grieve, R., Structure of Chicxulub: Results from Past Drilling and Targets for Future Drilling, 40<sup>th</sup> ESLAB Symposium, First International Conference on Impact Cratering in the Solar System, European Space Agency, Abstract Book, p. 153, 2006.
- Surendra, A. T., Barton, P. J., Morgan, J., **Gulick, S. P. S.**, Christeson, G. L., 3-D Tomographic Imaging of the Chicxulub Impact Crater, 40<sup>th</sup> ESLAB Symposium, First International Conference on Impact Cratering in the Solar System, European Space Agency, Abstract Book, p. 211, 2006.
- Gulick, S.**, Mann, P., Christeson, G., van Avendonk, H., Pavlis, T., Jaeger, J., Powell, R., Cowan, E., Geophysical and Geologic Investigations of the Yakutat Terrane Collision, Glacial Erosion, and Marine Deposition, St. Elias Orogen, Southeast Alaska, Lessons in Tectonics, Climate and Eustacy from the Stratigraphic Record in Arc Collision Zones, GSA Penrose Conference Proceedings, 2005.
- Jaeger, J., Powell, R., Cowan, E., **Gulick, S.**, Mann, P., Pavlis, T., Finney, B., Uplift versus Denudation: the Sedimentary Record of Yakutat Terrane Collision and Glacial Erosion in Southeast Alaska, Lessons in Tectonics, Climate and Eustacy from the Stratigraphic Record in Arc Collision Zones, GSA Penrose Conference Proceedings, 2005.
- Gulick, S.**, Bangs, N., Goldberg, D., Nordfjord, S., and Sommerfield, C., The use of Core-Log-Seismic Integration in Academia: Examples from within and outside of IODP. Proceedings of CDEX/JAMSTEC/J-DESC International Workshop on Core-Log-Seismic Integration: New Scientific and Technological Challenges, JAMSTEC Tokyo Office, pp. 7-9, 2005.
- Sakurai, S., **Gulick, S.**, and Hovorka, S., Integrated Evaluation of CO<sub>2</sub> Sequestration: Use of Core, Wireline Logs, and Seismic Data, Proceedings of CDEX/JAMSTEC/J-DESC International Workshop on Core-Log-Seismic Integration: New Scientific and Technological Challenges, JAMSTEC Tokyo Office, pp. 13-15, 2005.
- Gulick, Sean P. S.**, Meltzer, A. S., Clarke, S. H., Jr., Tectonic Interplay Between Oblique Subduction and Mendocino Triple Junction Migration Along the Southern Cascadia Subduction Zone, Offshore Northern California, Proceedings of the GSA Penrose Conference, Great Cascadia Earthquake Tricentennial, Oregon Department of Geology and Mineral Industries, pp. 34-35, 2000.

#### **Abstracts Published (77)**

- Gulick, S.P.**, McDonald, M.A., Mendoza, K., Pearson, Z., Barton, P., Christeson, G., Morgan, J., Surendra, A., Vermeesch, P., Urrutia, J., Asymmetric Structure of the Chicxulub Impact Crater: Possible Causes of Heterogeneity and Targets for Drilling, Eos Trans. AGU 88 (23), Jt. Assem. Suppl., Abstract U34A-03, 2007.
- Barton, P., Morgan, J., **Gulick, S.**, Price, V., Blackburn, M., Christeson, G., Urrutia, J., Characterising the Melt Sheet in the Chicxulub Impact Crater using Seismic Data Prior to New Drilling, Eos Trans. AGU 88 (23), Jt. Assem. Suppl., Abstract U34A-04, 2007.
- Surendra, A.T., Barton, P.J., Morgan, J., **Gulick, S.P.**, Christeson, G.L., 3-D Variation in Peak Ring Structure of the Chicxulub Impact Crater, Eos Trans. AGU 88 (23), Jt. Assem. Suppl.,

- Abstract U34A-05, 2007.
- Whalen, M.T., Pearson, Z.F., Perez Cruz, L., Urrutia, J., Norris, R., Bralower, T.J., **Gulick, S.P.**, Sedimentologic and Stable Isotope Response to the PETM at Chicxulub, *Eos Trans. AGU* 88 (23), Jt. Assem. Suppl., Abstract U34A-06, 2007.
- McDonald, M., **Gulick, S.**, Melosh, H., Christeson, G., The Chicxulub Impact Crater and Oblique Impact, *Eos Trans. AGU* 88 (23), Jt. Assem. Suppl., Abstract U34A-07, 2007.
- Mendoza-Cervantes, K., Fucugauchi, J.U., **Gulick, S.**, Chicxulub Peak Ring Characteristics from 2D Reflection Seismic Survey, *Eos Trans. AGU* 88 (23), Jt. Assem. Suppl., Abstract S41A-05, 2007.
- Gulick, S.P.**, Jaeger, J.M., Willems, B., Powell, R.D., Lowe, L.A., Glacial climate driven sedimentation overwhelms tectonics in the battle for control of margin architecture: Southeast Alaska, St. Elias Orogeny, *Eos Trans. AGU*, 87(52), Fall Meet. Suppl., Abstract T24B-05, 2006.
- Lowe, L.A., **Gulick, S.P.**, Pavlis, T., Bruhn, R.L., Mann, P., Localized deformation zones in the offshore leading edge of the Yakutat microplate, Gulf of Alaska, *Eos Trans. AGU*, 87(52), Fall Meet. Suppl., Abstract T23B-0492, 2006.
- Bangs, N.L., Moore, G.F., Yoro, T., Tanaka, H., **Gulick, S.P.**, 3-D Seismic images of thrust systems along the NanTroSEIZE Kumano Basin transect, Southwestern Japan, *Eos Trans. AGU*, 87(52), Fall Meet. Suppl., Abstract T21A-0386, 2006.
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