

DENISE KAY KULHANEK

ASSOCIATE RESEARCH SCIENTIST/EXPEDITION PROJECT MANAGER
INTERNATIONAL OCEAN DISCOVERY PROGRAM

Texas A&M University
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EDUCATION

Doctor of Philosophy, Geological Sciences 2003–2009
Florida State University (Tallahassee, FL, USA)

Dissertation: Calcareous nannoplankton as paleoceanographic and biostratigraphic proxies: Examples from the mid-Cretaceous equatorial Atlantic (ODP Leg 207) and Pleistocene of the Antarctic Peninsula (NBP0602A) and North Atlantic (IODP Expedition 306)
Advisor: Sherwood “Woody” Wise, Jr.

Master of Science, Geosciences 1997–2000
University of Nebraska, Lincoln (Lincoln, NE, USA)

Thesis: Paleocene Calcareous nannofossil biostratigraphy and magnetobiochronology from ODP Leg 171B, Blake Nose
Advisor: David K. Watkins

Bachelor of Science, Geology 1993–1997
University of Nebraska, Lincoln (Lincoln, NE, USA)

- Minors: Math, Anthropology
- Phi Beta Kappa
- Graduated with distinction

RESEARCH INTERESTS

I use microfossils (especially calcareous nannofossils), sediments, and geochemical proxies to address biostratigraphic, paleoceanographic, and paleoclimatic questions primarily focusing on the Cenozoic. My current research areas include evolution of the Southern Ocean and Antarctic ice sheets since the Oligocene; the interplay of tectonics, erosion, and carbon cycling and the evolution of monsoon; and carbonate production, dissolution, and burial in the Pacific Ocean and the impact on Neogene/Quaternary climate. I am also very interested in the role of climate on the evolution of coccolithophores, specifically concentrating on the family Noelaerhabdaceae.

PROFESSIONAL EXPERIENCE

2019–present **Texas A&M University, International Ocean Discovery Program**, Associate Research Scientist/Staff Scientist (College Station, TX, USA)

2013–2019 **Texas A&M University, International Ocean Discovery Program**, Assistant Research Scientist/Staff Scientist (College Station, TX, USA)

2011–2013 **GNS Science**, Micropaleontologist (Lower Hutt, New Zealand)

Sep–Dec 2010 **Yamagata University**, Post-Doctoral Researcher (Yamagata, Japan)
Project: The hunt for sea-ice proxies: Evolution and paleoecology of archaeomonads
Advisor: Richard Jordan

- Mar–Jul 2010 **IODP Management International, Inc.**, Science Coordinator (Tokyo, Japan)
- 2006 **Antarctic Marine Geology Research Facility**, Graduate Assistant Curator (Florida State University, Tallahassee, FL, USA)
- 2005–2006 **Florida State University**, Graduate Research Assistant (Department of Geological Sciences, Tallahassee, FL, USA)
- 2003–2005 **Bugware Inc.**, Independent Contractor (Tallahassee, FL, USA)
- 2000–2003 **BP**, Biostratigrapher (Houston, TX, USA)
- 1999–2000 **University of Nebraska, Lincoln**. Graduate Research Assistant (Department of Geosciences, Lincoln, NE, USA)

TEACHING EXPERIENCE

- 2014–present **Texas A&M University**
Introduction to Environmental Geoscience: Spring 2019 (40 students)
Undergraduate Research: Spring 2015 (2 students), Spring 2016 (5 students), Fall 2016 (4 students), Spring 2017 (3 students), Summer 2017 (4 students), Fall 2017 (3 students), Spring 2018 (3 students), Fall 2018 (3 students), Spring 2019 (3 students), Summer 2019 (5 students), Fall 2019 (5 students)
First Year Seminar (Instructor; topic: geological dating techniques): Fall 2014 (12 students)
- 2003–2008 **Florida State University**
Paleontology (Instructor): Fall 2007 (9 students), 2008 (7 students)
Paleontology Lab Directed Independent Study (Instructor): Summer 2008 (1 student)
Historical Geology (Instructor): Spring 2007 (20 students), 2008 (25 students), 2009 (22 students)
Historical Geology Lab (Teaching Assistant): Spring 2004 (30 students)
Dynamic Earth Lab (Teaching Assistant): Fall 2003 (43 students), 2004 (21 students)
- 1997–1999 **University of Nebraska, Lincoln**
Honors Historical Geology (Lab Teaching Assistant): Spring 1999 (~20 students)
Physical Geology Lab (Teaching Assistant): Fall 1997 (28 students), Spring 1998 (25 students), Fall 1998 (28 students)

GRANTS AND PROPOSALS (PI = principal investigator; AI = associate investigator)

- In prep NSF-BSF Marine Geology & Geophysics Research Program (PI) ~\$350,000
 Project: *Reorganization of nutrient regime in the central Mediterranean: The impact of North African climate and weathering patterns during the Miocene* (to be submitted by 1 December 2019)
- In review NSF Antarctic Earth Sciences Program (co-PI) \$445,389
 Project: *Orbital- to millennial-scale variability of the West Antarctic Ice Sheet and influence on the formation of bottom water in the Ross Sea during the Pliocene-Pleistocene*
 PIs: Brian Romans (lead, Virginia Tech; \$208,595), Molly Patterson (Binghamton University; \$107,487), Jeanine Ash (Rice University; \$73,045), Denise Kulhanek (TAMU; \$56,262)

2019	USSSP Ad-hoc Proposal Project: <i>IODP-PAIS Antarctic School</i> (Summer 2019)	\$31,584
2018–2019	USSSP Post-Expedition Award, IODP Expedition 374 (PI) Project: <i>XRF-based sediment geochemistry to assess oceanic heat flux (Site U1523) and calcareous nannofossils as biostratigraphic and paleoenvironmental indicators in the Ross Sea, Antarctica (IODP Expedition 374)</i>	\$18,000
2017–2019	USSSP Post-Expedition Award, IODP Expedition 363 (PI) Project: <i>IODP Expedition 363: Western Pacific Miocene carbonate burial and paleoproductivity (Sites U1489 and U1490) and eastern Indian Ocean biosiliceous paleoproductivity (Site U1483)</i>	\$15,000
2015–2017	USSSP Post-Expedition Award, IODP Expedition 355 (PI) Project: <i>Calcareous nannofossils from IODP Expedition 355: Biostratigraphy, productivity and alkenone pCO₂ estimates, and a possible new proxy for provenance</i>	\$14,974
2015	College of Geosciences High Impact Undergraduate Research Award (PI) (Texas A&M University) Project: <i>Early Holocene calcareous nannofossils from the New Zealand region: Impact of a warmer climate on Southern Ocean circulation and bioproductivity</i>	\$1,300
2014–2016	USSSP Post-Expedition Award, IODP Expedition 349 (PI) Project: <i>Oligocene calcareous nannofossil biostratigraphy and paleoceanography of IODP Site U1435, South China Sea</i>	\$14,841
2013–2014	New Zealand Antarctic Research Institute (AI) Project: <i>Southern Ocean and Antarctic climate response to high atmospheric CO₂ forcing</i>	NZ\$115,115
2012–2015	New Zealand Marsden Fund (AI) Project: <i>Surviving in the Eocene Ocean: The Unbearable Warmness of Being</i>	NZ\$960,000
2010–2012*	OISE 1004500, NSF International Research Fellowship Program (PI) Project: <i>The hunt for sea-ice proxies: Evolution and paleoecology of archaeomonads</i> (*Post-doc terminated early after accepting position at GNS Science)	\$134,312
2010–2012	NSF T313A33, Post-Cruise Expedition Award (PI) Project: <i>Calcareous nannofossil biostratigraphy and paleoceanography of the New Jersey Shallow Shelf (IODP Expedition 313)</i>	\$14,928
2006–2008	NSF T306A33, Post-Cruise Expedition Award (co-PI with PhD advisor) Project: <i>Paleoclimatic and biostratigraphic significance of calcareous mannofossils from IODP Expedition 306</i>	\$26,863

IODP Drilling Proposals:

Pending	IODP Drilling Proposal 903-Full2 (PI) Project: <i>Deep drilling on the Argentine passive volcanic continental margin (APVCM): Exploring the transition from continental breakup to passive margin</i> (submitted 1 October 2019)
Pending	IODP Drilling Proposal 911-Full (AI; lead proponent James Wright [Rutgers]) Project: <i>Argentine Margin Transects: Deciphering the interactions among Southern Ocean Circulation, Climate, and Tectonics</i> (full proposal submitted Oct. 2017; revision in progress)

Travel Grants:

2017	Land-Ocean Interactions Across the Indian Ocean: Toward Regional Integration of Recent Drilling Results Workshop Travel Grant	\$1,125
2013	Exploring the Cretaceous Greenhouse through Scientific Drilling Travel Grant	\$2,384
2013	Antarctic Geologic Drilling Workshop Travel Grant	\$520
2012	Antarctic and Southern Ocean Drilling Workshop Travel Grant	\$1,000

2007 10th International Symposium on Antarctic Earth Science Travel Grant \$1,200

AWARDS AND HONORS

2006 Best Student Presentation, International Nannoplankton Association 11th Meeting
 1999 Outstanding Graduate Presentation, Nebraska Academy of Sciences
 1997 Outstanding Undergraduate Achievement in Science, Graduate Women in Science Award

RESEARCH EXPEDITIONS

Jan–Mar 2018 IODP Expedition 374: Ross Sea West Antarctic Ice Sheet History (Lyttelton to Timaru, New Zealand), R/V *JOIDES Resolution*, Staff Scientist/Expedition Project Manager/nannofossil paleontologist (63 days)
 Oct–Dec 2016 IODP Expedition 363: Western Pacific Warm Pool (Singapore to Guam), R/V *JOIDES Resolution*, Staff Scientist/Expedition Project Manager (63 days)
 Mar–May 2015 IODP Expedition 355: Arabian Sea Monsoon (Colombo, Sri Lanka to Mumbai, India), R/V *JOIDES Resolution*, Staff Scientist/Expedition Project Manager/nannofossil paleontologist (67 days)
 Jan–Mar 2014 IODP Expedition 349: South China Sea Tectonics (Hong Kong to Keelung, Taiwan), R/V *JOIDES Resolution*, Staff Scientist/Expedition Project Manager (63 days)
 May 2013 IODP Expedition 341S: SCIMPI and 858G CORK (Victoria, BC, Canada), R/V *JOIDES Resolution*, staff scientist trainee (10 days)
 Aug–Oct 2012 Industry Expedition 344S: Baffin Bay Scientific Coring Program (St. John's, Newfoundland), R/V *JOIDES Resolution*, chronostratigraphy consultant on industry-funded cruise (63 days)
 Nov–Dec 2009 IODP Expedition 313: New Jersey Shallow Shelf (Bremen, Germany), Onshore Science Party calcareous nannofossil paleontologist (29 days)
 Mar–Apr 2006 NBP0602A SHALDRIL II: Northwestern Weddell Sea (Punta Arenas, Chile), RV/IB *Nathaniel B. Palmer*, staff scientist/calcareous nannofossil paleontologist, cruise report editor (*see Anderson et al., 2006*) (36 days)
 Mar–Apr 2005 IODP Expedition 306: North Atlantic Paleoclimate Study II (Ponta Delgada, Azores to Dublin, Ireland), R/V *JOIDES Resolution*, calcareous nannofossil paleontologist (49 days)

PROFESSIONAL SERVICE

Reviewer for *Ameghiniana*; *International Journal of Earth Sciences*; *Geologica Carpathica*; *Geology*; *Global and Planetary Change*; *Marine Micropaleontology*; *Journal of Nannoplankton Research*; *Palaeogeography*, *Palaeoclimatology*, *Palaeoecology*; *Palaios*; *Paleoceanography*; *Quaternary Science Reviews*; *Stratigraphy*

2019–present Committee member, The Archive of Key Nannofossil Samples (ThANKS)
 2019 Lead organizer, IODP-PAIS Antarctic Summer School, College Station, TX, USA
 2017–present Guest editor, special volume in Geological Magazine for IODP Expedition 355
 2017 Served on search committee for IODP Gulf Coast Repository curator
 2016–2017 Guest editor: Evolution of the Deep South China Sea: Integrated IODP Expedition 349 Results. *Marine Geology* v. 394 (2017).
 2016 Co-organizer for IODP workshop: Antarctica's Cenozoic ice and climate history: New Science and new challenges of drilling in Antarctic waters, College Station, TX, USA
 2015–present Regularly present introduction to IODP and research opportunities to TAMU Department of Geology and Geophysics Freshman Seminars and Transfer Seminars

2015–2018	Member of Antarctic Marine Geology Research Facility (AMGRF) Advisory Board
2015–present	PhD committee member for Divya Saxena, Texas A&M University
2015	MSc committee member for Claire Routledge, Florida State University
2013–present	Member of IODP Geology Lab Working Group and lead for Paleontology Subgroup
2011–2013	IODP Scientific Technology Panel Member
2009	Local Organizing Committee Member, International Nannoplankton Association 13 th Meeting, Yamagata, Japan

INVITED TALKS

Sep 2019	“A history of scientific ocean drilling and recent discoveries” Y-TEC (La Plata, Argentina)
Apr 2017	Texas A&M University Geology and Geophysics Society (College Station, TX, USA) “An introduction to scientific ocean drilling and summary of IODP Expedition 363 (Western Pacific Warm Pool)”
Apr 2016	University of Milan Bicocca (Milan, Italy) “Elucidating Southwest Pacific late Paleocene paleoceanography and paleoclimate”
Nov 2015	Florida State University (Tallahassee, FL, USA) “Elucidating Southwest Pacific late Paleocene paleoceanography and paleoclimate”
Oct 2015	Nanjing University (Nanjing, China) “An introduction to scientific ocean drilling and participating on an IODP expedition”
Sep 2015	Y-TEC (La Plata, Argentina) “Introduction to Scientific Ocean Drilling”
Jul 2015	Universidade Estadual Paulista (Rio Claro, Brazil) “Sailing on an International Ocean Discovery Program expedition: A primer”
Oct 2014	Louisiana State University (Baton Rouge, LA, USA) “Elucidating Southwest Pacific late Paleocene paleoceanography and paleoclimate”

STUDENTS SUPERVISED

Graduate Students

Jenna Patten (PhD candidate), Texas A&M University (supervising project for one chapter of PhD utilizing IODP Exp. 374 cores)	Sep 2018–present
John Sarao, Jr. (PhD candidate), Texas A&M University	Jan 2018–present
Claire Shepherd (PhD), Victoria University of Wellington/GNS Science	2013–2016

Undergraduate Students (Texas A&M University)

Alejandra Briseno (May 2019-present); Emma Tatge (May 2019-present); Dominique Martinez (2018–present); Jack McLaughlin (2018–present), Jenna Chapman (2017–present), David Valerio (2017–2018), Melanie Bowen (2016–2017), Laura Davila (2016–2017), Nathan Lakin (2016–2017), Daniel Morelos (2016–2017), Patricia Carrillo (2016), Nichelle Curtis (2016), Eileah Sims (2016); Kristen Morris (2015), Katie Welsh (2015)

PUBLICATIONS (* denotes student author)

Lu, H., Liu, R., Cheng, L., Feng, H., Zhang, H., Wang, Y., Hu, R., Zhao, W., Ji, J., Xu, Z., Yu, Z., **Kulhanek, D.K.**, Pandey, D.K., and Clift, P.D., submitted. Phased evolution and variation of South Asian Monsoon, weathering, and surface erosion in Himalaya-Karakoram Mountains since late Pliocene from IODP Hole U1456A in eastern Arabian Sea. *Geological Magazine*.

Saraswat, R., Kurtarkar, S.R., Yadav, R., Mackensen, A., Singh, D.P., Bhadra, S., Singh, A.D., Tiwari, M., Prabhukuluskar, S.P., Baudodkar, S.R., Pandey, D.K., Clift, P.D., **Kulhanek, D.K.**, Bhishekar,

- K., and Nair, S., accepted. Inconsistent change in surface hydrography of the eastern Arabian Sea during the last four glacial-interglacial intervals. *Geological Magazine*.
- Clift, P.D., **Kulhanek, D.K.**, Zhou, P., Bowen, M.G.*, Vincent, S.M., Lyle, M., and Hahn, A., 2019. Chemical weathering and erosion responses to changing monsoon climate in the late Miocene of Southwest Asia. *Geological Magazine*. doi:10.1017/S0016756819000608
- Cai, M., Xu, Z., Clift, P.D., Lim, D. Khim, B.K., Yu, Z., **Kulhanek, D.K.**, Li, T., Chen, H., and Sun, R., 2019. Depositional history and Indian Summer Monsoon controls on silicate weathering of sediment transported to the eastern Arabian Sea: Geochemical records from IODP Site U1456 since 3.8 Ma. *Geochemistry, Geophysics, Geosystems*, 20: 4336–4353. doi:10.1029/2018GC008157
- Kumar, A., Dutt, S., Saraswat, R., Gupta, A.K., Clift, P.D., Pandey, D.K., Yu, Z., and **Kulhanek, D.K.**, 2019. A late Pleistocene sedimentation in the Indus Fan, Arabian Sea, IODP Site U1457. *Geological Magazine*, doi:10.1017/S0016756819000396
- Dailey, S.K., Clift, P.D., **Kulhanek, D.K.**, Blusztajn, J., Routledge, C.M.*, Calvès, G., O’Sullivan, P., Jonell, T.N., Pandey, D.K., Andò, S., Coletti, G., Zhou, P., Li, Y., Neubeck, N.E., Bendle, J.A.P., Bratenkov, S., Griffith, E.M., Gurusurthy, G.P., Hahn, A., Iwai, M., Khim, B.-K., Kumar, A., Ganesh Kumar, A., Liddy, H.M., Lu, H., Lyle, M.W., Mishra, R., Radhakrishna, T., Saraswat, R., Saxena, R., Scardia, G., Sharma, G.K., Singh, A.D., Steinke, S., Suzuki, K., Tauxe, L., Tiwari, M., Xu, Z., and Yu, Z., 2019. Large-scale mass wasting on the Miocene continental margin of western India. *GSA Bulletin*, doi: 10.1130/B35158.1
- Routledge, C.M.*, **Kulhanek, D.K.**, Tauxe, L., Scardia, G., Singh, A.D., Steinke, S., Griffith, E.M., and Saraswat, R., 2019. A revised chronostratigraphic framework for the Indus Fan: IODP Expedition 355, Arabian Sea. *Geological Magazine*, doi: 10.1017/S0016756819000104
- Kulhanek, D.K.**, Levy, R.H., Clowes, C.D., Prebble, J.G., Rodelli, D., Jovane, L., Morgans, H.E.G., Kraus, C., Zwingmann, H., Griffith, E.M., Scher, H.D., McKay, R.M., and Naish, T.R., 2019. Revised chronostratigraphy of DSDP Site 270 and late Oligocene to early Miocene paleoecology of the Ross Sea sector of Antarctica. *Global and Planetary Change*, 178: 46–64.
- Hahn, A., Bowen, M.G.*, Clift, P.D., **Kulhanek, D.K.**, and Lyle, M.W., 2019. Testing the analytical performance of handheld XRF using marine sediments of IODP Expedition 355. *Geological Magazine*, doi: 10.1017/S0016756819000189
- Boulton, C., Niemeijer, A.R., Hollis, C.J., Townend, J., Raven, M.D., **Kulhanek, D.K.**, and Shepherd, C.L., 2019. Temperature-dependent frictional properties of heterogeneous Hikurangi Subduction Zone input sediments, ODP Site 1124. *Tectonophysics*, 757: 123–139.
- Levy, R.H., Meyers, S.R., Naish, T.R., Golledge, N.R., McKay, R.M., Crampton, J.S., DeConto, R.M., De Santis, L., Florindo, F., Gasson, E.G.W., Harwood, D.M., Luyendyk, B.P., Powell, R.D., Clowes, C., and **Kulhanek, D.K.**, 2019. Antarctic ice-sheet sensitivity to obliquity forcing enhanced through ocean connections. *Nature Geoscience*, doi:10.1038/s41561-018-0284-4
- Pandey, D.K., Pandey, A., Clift, P.D., Nair, N., Ramesh, P., **Kulhanek, D.K.**, and Yadav, R., 2018. Flexural subsidence analysis of the Laxmi Basin, Arabian Sea and its tectonic implications. *Geological Magazine*. doi:10.1017/S00167568180008337
- Yu, Z., Colin, C., Wan, S., Saraswat, R., Song, L., Xu, Z., Clift, P., Lu, H., Lyle, M., **Kulhanek, D.**, Hahn, A., Tiwari, M., Mishra, R., Miska, S., and Kumar, A., in press. Sea level-controlled sediment transport to the eastern Arabian Sea over the past 600 kyr: Clay minerals and Sr-Nd isotopic evidence from IODP Site U1457. *Quaternary Science Reviews*, 205: 22–34.
- Lyle, M., **Kulhanek, D.K.**, Bowen, M.G.*, and Hahn, A., 2018. Data Report: X-ray fluorescence studies of Site U1457 sediments, Laxmi Basin, Arabian Sea. In Pandey, D.K., Clift, P.D., Kulhanek, D.K., and the Expedition 355 Scientists, *Arabian Sea Monsoon*. Proceedings of the International Ocean Discovery Program, 355: College Station, TX (International Ocean Discovery Program). doi:10.14379/iodp.proc.355.203.2018
- Cavaleiro, C., Voelker, A.H.L., Stoll, H., Baumann, K.-H., **Kulhanek, D.K.**, Naafs, B.D.A., Stein, R., Grützner, J., Ventura, C., and Kucera, M., 2018. Insolation forcing of coccolithophore productivity in the North Atlantic during the Middle Pleistocene. *Quaternary Science Reviews*, 191: 318–336.

- Pearson, P.N. and IODP Expedition 363 Shipboard Scientific Party (including **D.K. Kulhanek**), 2018. A deep-sea agglutinated foraminifer tube constructed with planktonic foraminifer shells of a single species. *Journal of Micropalaeontology*, 37: 97–104.
- Liu, Z., Li, C.-F., and **Kulhanek, D.**, 2017. Preface: Evolution of the deep South China Sea: Integrated IODP Expedition 349 Results. *Marine Geology*, 394: 1–3.
- Tripathi, S., Tiwari, M., Lee, J., Khim, B.-K., and IODP Expedition 355 Scientists (including **D.K. Kulhanek**), 2017. First evidence of denitrification vis-à-vis monsoon in the Arabian Sea since Late Miocene. *Scientific Reports*, 7:43056.
- Shepherd, C.L.* and **Kulhanek, D.K.**, 2016. Eocene nannofossil biostratigraphy of the mid-Waipara River section, Canterbury Basin, New Zealand. *Journal of Nannoplankton Research*, 36(1): 33–59.
- Kulhanek, D.K.**, Crouch, E.M., Tayler, M.J.S., and Hollis, C.J., 2015. Paleocene calcareous nannofossils from East Coast, New Zealand: Biostratigraphy and paleoecology. *Journal of Nannoplankton Research*, 35(2): 155–176.
- Ding, W., Li, J., Clift, P.D., and IODP Expedition 349 Scientists (including **D.K. Kulhanek**), 2016. Spreading dynamics and sedimentary process of the Southwest Sub-basin, South China Sea: Constraints from multi-channel seismic data and IODP Expedition 349. *Journal of Asian Earth Sciences*, 115: 97–113.
- Hollis, C.J., Hines, B.R., Littler, K., Villasante-Marcos, V., **Kulhanek, D.K.**, Strong, C.P., Zachos, J.C., Eggins, S.M., Northcote, L., and Phillips, A., 2015. The Paleocene-Eocene Thermal Maximum at DSDP Site 277, Campbell Plateau, southern Pacific Ocean. *Climate of the Past*, 11: 1009–1025.
- Li, C.-F., Li, J., Ding, W.W., Franke, D., Yao, Y., Shi, H., Pang, X., Cao, Y., Lin, J., **Kulhanek, D.K.**, Williams, T., Bao, R., Briaies, A., Brown, E.A., Chen, Y., Clift, P.D., Colwell, F.S., Dadd, K.A., Hernández Almeida, I., Huang, X.-L., Hyun, S., Jiang, T., Koppers, A.A.P., Li, Q., Liu, C., Liu, Q., Liu, Z., Nagai, R.H., Peleo-Alampay, A., Su, X., Sun, Z., Tejada, M.L.G., Trinh, H.S., Yeh, Y.-C., Zhang, C., Zhang, F., Zhang, G.-L., and Zhao, X., 2015. Seismic stratigraphy of the central South China Sea basin and implications for neotectonics. *Journal of Geophysical Research – Solid Earth*, 120: 1377–1399.
- Hagino, K., Young, J.R., Bown, P.R., Godrijan, J., **Kulhanek, D.K.**, Kogame, K., and Horiguchi, T., 2015. Re-discovery of a “living fossil” coccolithophore from the coastal waters of Japan and Croatia. *Marine Micropalaeontology*, 116: 28–37.
- Li, C.-F., Xu, X., Lin, J., Sun, Z., Zhu, J., Yao, Y., Zhao, X., Liu, Q., **Kulhanek, D.K.**, Wang, J., Song, T., Zhao, J., Qiu, N., Guan, Y., Zhou, Z., Williams, T., Bao, R., Briaies, A., Brown, E.A., Chen, Y., Clift, P.D., Colwell, F.S., Dadd, K.A., Ding, W., Hernández Almeida, I., Huang, X.-L., Hyun, S., Jiang, T., Koppers, A.A.P., Li, Q., Liu, C., Liu, Z., Nagai, R.H., Peleo-Alampay, A., Su, X., Tejada, M.L.G., Trinh, H.S., Yeh, Y.-C., Zhang, C., Zhang, F., and Zhang, G.-L., 2014. Ages and magnetic structures of the South China Sea constrained by deep tow magnetic surveys and IODP Expedition 349. *Geochemistry, Geophysics, Geosystems*, 15: 4958–4983. doi:10.1002/2014GC005567
- Hollis, C.J., Tayler, M.J.S., Andrew, B., Taylor, K.W., Lurcock, P., Bijl, P.K., **Kulhanek, D.K.**, Crouch, E.M., Nelson, C.S., Pancost, R.D., Huber, M., Wilson, G.S., Ventura, G.T., Crampton, J.S., Schiøler, P., and Phillips, A., 2014. Organic-rich sedimentation in the South Pacific Ocean associated with Late Paleocene climatic cooling. *Earth-Science Reviews*, 134: 81–97. doi:10.1016/j.earscirev.2014.03.006
- Crouch, E.M., Willumsen, P., **Kulhanek, D.K.**, and Gibbs, S., 2014. A revised Paleocene (Teurian) dinoflagellate cyst zonation from eastern New Zealand. *Review of Palaeobotany and Palynology*, 202: 47–79. doi:10.1016/j.revpalbo.2013.12.004.
- Browning, J.V., Miller, K.G., Barron, J., Katz, M.E., **Kulhanek, D.K.**, McCarthy, F., Feigenson, M.D., Olsson, R.K., and Sugarman, P.J., 2013. Chronology of Eocene–Miocene sequences on the New Jersey shallow shelf: Implications for regional, interregional, and global correlations. *Geosphere*, 9: 1434–1456. doi:10.1130/GES00857.1.
- Barth, N.C.* , **Kulhanek, D.K.**, Beu, A.G., Murray-Wallace, C.V., Hayward, B.W., and Mildenhall, D.C., 2013. New c. 300 kyr strike-slip and uplift rates for the southern Alpine Fault and implications for the

New Zealand plate boundary. *Journal of Structural Geology*.

<http://dx.doi.org/10.1016/j.jsg.2013.08.009>

- Hines, B.R. *, **Kulhanek, D.K.**, Hollis, C.J., Atkins, C.B., and Morgans, H.E.G., 2013. Paleocene–Eocene stratigraphy and paleoenvironment at Tora, southeast Wairarapa, New Zealand. *New Zealand Journal of Geology and Geophysics*, 56(4): 243–262. doi:10.1080/00288306.2013.836112.
- Miller, K.G., Sugarman, P.J., Browning, J.V., Sheridan, R.E., **Kulhanek, D.K.**, Monteverde, D.H., Wehmiller, J.F., Lombardi, C., , and Feigenson, M.D., 2013. Pleistocene sequence stratigraphy of the shallow continental shelf, offshore New Jersey: Constraints of Integrated Ocean Drilling Program Leg 313 core holes. *Geosphere*, 9: 74-95, doi:10.1130/GES00795.1.
- Kulhanek, D.K.**, 2011. IODP in New Zealand; recent expeditions and public outreach. *Newsletter – Geoscience Society of New Zealand*, 3: 32-37.
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OUTREACH ACTIVITIES

Aug 2018	Smithsonian Science Education Academy for Teachers (SSEAT) video tour of the IODP Gulf Coast Repository, introduction to drilling, and initial results of IODP Exp. 374 (Ross Sea West Antarctic Ice Sheet History)
June 2017	GeoX camp (high school students) introduction to IODP and core description activity at Gulf Coast Repository
June 2016	GeoX camp (high school students) introduction to IODP and core description activity at Gulf Coast Repository
Apr 2016	Texas Collaborative Teacher Workshop (1-day introduction to IODP and scientific ocean drilling with hand's on exercises using core description, biostratigraphy, and magnetostratigraphy)
Feb 2015	Caring Aggies Mentoring Program (CAMP) (high school students) introduction to scientific ocean drilling and hand's on core activities at Gulf Coast Repository
Feb 2015	Video event with "Dinosaurs and Disasters" day at University of Nebraska Museum – introduction to scientific ocean drilling and tour of Gulf Coast Repository
Oct 2014	Cub Scout (primary school age) introduction to scientific ocean drilling and core activity at Gulf Coast Repository
June 2014	GeoX camp (high school students) introduction to IODP and core description activity at Gulf Coast Repository
July 2013	Introduction to IODP and core description activity for JR Camp (middle school students)
June 2013	GeoX camp (high school students) introduction to IODP and core description activity at Gulf Coast Repository
July 2012	Organized IODP Exp. 342 outreach event at Museum of Wellington City& Sea, with geological displays, activities for kids and a ship-to-shore video link with Chris Hollis and the R/V <i>JOIDES Resolution</i>
Feb 2012	Guest speaker at Mineral Club of Hutt Valley and Wellington meeting; topic – IODP Expedition 306
Oct 2011	Guest speaker at Micro-Mineral Symposium, Lower Hutt; topic – Microfossil Applications
June 2011	Volunteer at GNS display at Hutt Valley Rock and Mineral Show
Sep 2010	Women in Science panelist to high school students in Yamagata, Japan during the 13 th International Nannoplankton Association conference
Feb 2010	Designed geologic timeline activity and stationed fossil ID booth at Dinosaurs and Disasters day at the University of Nebraska State Museum
April 2009	Organizer for FSU Department of Geological Sciences booth at Origins '09 Science and Arts Fair, Klemen Plaza, Tallahassee, FL
2008–2009	Outreach Coordinator, Antarctic Marine Geology Research Facility
2008–2009	Capital Regional Science & Engineering Fair Judge
2006–2008	AMGRF tour leader for many different groups, including freshmen lab students, women in math and science (WIMSE) groups, various grade school groups, summer camp groups, Boy Scouts, high school science teachers, etc.
2006	SHALDRIL II Cyber Pen Pal to Holy Comforter Elementary School students, with subsequent classroom visit and presentation
2001–2003	Mentor to two grade school students in Houston, TX
2001–2003	Junior Achievement volunteer in Houston, TX
1998	Taught 2-week geology course at Montessori school in Lincoln, NE (ages 3–12)

PROFESSIONAL AFFILIATIONS

American Association of Petroleum Geologists (1999–present)
 American Geophysical Union (2008–present)

Association for Women Geoscientists (2007–2014)
Geological Society of America (2009–present)
Geoscience Society of New Zealand (2011–2013)
International Nannoplankton Association (1999–present)
North American Micropaleontology Section, SEPM (2002–present)