



Gerta Keller

Gerta Keller is Professor of Paleontology and Geology in the Geosciences Department of Princeton University since 1984. She was born in Schaan, Liechtenstein and grew up in Switzerland. She is a citizen of Switzerland, Liechtenstein and the United States of America. She received a B.S. degree from San Francisco State University in 1973 and a Ph.D. degree from Stanford University in 1978. Since 1984 she has been Professor of Geosciences at Princeton University.

Keller's primary research interests focus on major catastrophes in Earth's history in the broadest sense, including the biotic effects of catastrophes, such as mass extinctions, meteorite impacts, major volcanic eruptions, rapid climate changes and ocean acidification. Her research integrates paleontology, stratigraphy, geochronology, sedimentology and geochemistry in reconstructing past environmental changes associated with or leading up to mass extinctions.

Keller is well known for her contributions to the Cretaceous-Tertiary mass extinction controversy. She has contributed in diverse areas, including a global quantitative analysis of the nature, rate and tempo of the mass extinction, stratigraphy and age control, climate and sea level changes, the distribution and age of diverse ejecta material related to impacts and Deccan volcanism. Her latest work on Deccan volcanism has concentrated on age dating of the main eruptions at and near the KT mass extinction in India and documenting the effects of this volcanism worldwide. Her work is largely the result of interdisciplinary collaborations with an international team of scientists and students.

Keller has over 240 scientific publications in international journals and is a leading authority on catastrophes and mass extinctions, including the biotic and environmental effects of impacts and volcanism. She has co-authored and edited (with N. MacLeod) a book on the "*Cretaceous-Tertiary mass extinction*" (W.W. Norton & Co, 1996), a book on "*Chicxulub and the KTB mass extinction in Texas*" (SEPM, 2011) (with T. Adatte), A Geological Society of India Special volume on "*Micropaleontology and Stratigraphy: Global Bioevents in Earth's History*" (with Malarkodi, N., Reddy, A.N., Jaiprakash, B.C.) (Springer Verlag, 2013), and a Geological Society of America Special Paper on "*Volcanism, Impacts and Mass Extinctions: Causes and Effects*" (with A. Kerr). Her teams' work on the K-T boundary event has been featured in the 2004 BBC Horizon Documentary "*What really killed the Dinosaurs*", in the 2005 interview with Alexander Kluge "*Der Mega-Einschlag und die Dinosaurier – Gerta Keller ueber das Massensterben vor 65 millionen Jahren*", the 2005 documentary on "*Meteors: Fire in the Sky*", and the 2008 History Channel Program "*First Apocalypse*", as well as in programs of the NY Museum of Natural History, Australian, German and Swiss TV films.

CURRICULUM VITAE

GERTA KELLER

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Fields of Specialization

Major catastrophes in Earth's history, including the biotic effects of catastrophes, such as meteorite impacts, major volcanic eruptions (LIPs) and oceanic anoxic events (OAEs). Integration of paleontology, stratigraphy, sedimentology and geochemistry in reconstructing past environmental changes, including climate, sea level, and catastrophes leading to severe biotic stress and mass extinctions.

EDUCATION

1978 – Ph.D. (Earth Sciences) Stanford University

1974 - B.S. (Geology) San Francisco State University,

1974 – B.A. (Anthropology) San Francisco State University

CAREER

1978-1979 Postdoctoral Scholar, Stanford University. Quantitative Biostratigraphic and paleoceanographic analysis of Miocene deep-sea cores in the North and equatorial Pacific, NSF Grant OCE 76-82181 (CENOP) Cenozoic Paleoceanography.

1980-1982 NRC Fellowship, U.S. Geological Survey, Menlo Park, California. Integrated biostratigraphic and paleoceanographic analyses of the Monterey Formation, California.

1982-1984 U.S. Geological Survey, Menlo Park, and Research Associate at Stanford University. Stratigraphic and paleoceanographic analysis of late Cretaceous to Recent planktonic foraminifers; analysis of late Eocene and Oligocene sediments for microtektite layers; tectonic terrane analysis; sedimentation and distribution of Miocene deep-sea hiatuses.

1984-1992 Associate Professor of Geology, Geology Department, Princeton University, Princeton,
1992- Professor of Geology, Department of Geosciences, Princeton University.

AWARDS AND FELLOWSHIPS

2012. Radnakrishna Prize for work on India's Deccan Traps Published in JGSI, 2011.
Prize award ceremony Sept. 2 2012, Annual GSI meeting.
- 1991-1996 - NSF Faculty Award for Women Scientists and Engineers
- 1991 - SEPM Outstanding Paper of the Year Award
- 1980-1981 - National Research Council Fellowship, USGS Menlo Park
- 1974-1978 - Danforth Fellowship
- 1977 - Stanford University Fellowship
- 1975-1976 - Stanford University Fellowship
- 1974 - National Association of Geology Teachers Award
- 1973 - Research Grant to study invertebrates
- 1973 - Scholarship San Francisco State University
- 1972 - Purcell and Lamb Scholarship
- 1971 - Women Faculty Scholarship

PROFESSIONAL SOCIETIES

- North American Micropaleontology Society (NAMS)
- Schweizerische Geologische Gesellschaft
- American Geophysical Union (AGU)
- Geological Society of America (GSA)
- Member of International Geological Correlation Programme (IGCP) 262 Tethyan Cretaceous Correlation
- Member of IGCP Project 114, Neogene Correlations of the Pacific
- Member of IGCP Project 174, Eocene/Oligocene Boundary, co-ordinator of the Pacific working group
- Member of JOIDES, North Pacific Working Group 1980-1983
- Member of JOI, Caribbean Working Group 1987-1988
- Member of IUGS, Commission of Stratigraphy, Working Group on the Paleogene/Neogene Boundary
- Invited Participant, I.C.L. Working Group 7, Paleoenvironmental Evolution of the Oceans and the Atmosphere
- Member of IUGS, Commission of Stratigraphy, Working Group on the Cretaceous-Tertiary Boundary

MAJOR INVITED PRESENTATIONS AT ACADEMIC INSTITUTIONS AND SCIENTIFIC MEETINGS 2000-2014.

2000. Ben Gurion University, Beer Sheba, Israel lectures (March); Int. Conf. Asteroids, Meteorites, Impacts and Consequences, Nordlingen Germany (May); Plenary Speaker: International Conference on Catastrophies, Vienna July 2000; Plenary lecture Swiss Geological Society Annual Meeting Winterthur (August); MIT lecture (Sept); GSA (Oct.)
2001. AAPG Boston (March); University of California, Santa Barbara (May); GSA (Oct.)
2002. Cretaceous Climate Workshop (NSF), Florissant, CO (July); Plenary Speaker:

- International Micropaleontologic Congress, Perth, Australia (Oct); Black Shales conference, Geol. Soc. London (Dec.)
- 2003: EUG-AUG meeting, Nice, France, special Session on Chixulub Drilling (April); 3rd Intern. Conference on Large Meteorite Impacts. Nordlingen, Germany (August); Plenary Speaker, Cardiff, England, Conference: Mantle Plumes and Biotice effects, Cardiff, England (Sept)
2004. University of Neuchatel, Switzerland (May); University of Karlsruhe, Germany (June); University of Paris 6, Institute Physique du Globe (July); Sigma Xi lecture, Princeton University (Oct.); GSA Annual Meeting, Impact Symposium (Nov.); Evolution Symposium, Princeton University (Dec)
2005. Haydon Planetarium Lecture, New York Mueseum of Natural History (April); Paleontological Society, NJ. (May); Keynote Lecture, Intern. Symposium on the Cretaceous, Univ. Neuchatel (Sept.); Binghamton University, NY (Nov.)
2006. AGU Baltimore (May); GSA Ann. Meetg. Philadelphia (Oct) invited evening public lecture; GSA Ann Metg. Invited speaker in two special sessions, GSA Press Conference on new results of Keller's team; University of Munich, Germany (Nov); University of Neuchatel (Nov); Birbal Institute, Lucknow, India (Dec)
2007. University of Paris 6, Physique de Globe de Paris (May); AGU-EUG Acapulco, Mexico (May); GSA Denver, lecture, GSA Press release on new results of Keller's team (Oct)
2008. Keynote, Assoc. of Petrol. Geoscientists, Chennai, India, Press conference on new results of Keller's team (Feb); Lecture at Oil & Nat. Gas Corp. Research Inst. India, Dehra Dun, India (Jan); Keynote "II Simposio Geocientífico Internacional" (June); AGU San Francisco, lecture and AGU Press conference, NSF press conference on new results of Keller's team (Dec).
2009. Lecture at Oil & Nat. Gas Corp. Research Inst., DehraDun, India (Feb); Invited: RECCCE Workshop, IGP, April 2009, Gams, Austria (April); Lecture EGU Meeting, Vienna, Austria (April); International Symposium on the Cretaceous, Plymouth, GB (Sept); GSA Annual Meeting, Portland, keynote lecture, GSA press conf., NSF press conference on new results of Keller's team (Nov)
2010. Lecture at Oil & Nat. Gas Corp. Research Inst. India, Dehra Dun, India (Feb); Lecture, Adikavi Nannaya University, Rajahmundry, India (Feb); EGU Vienna, invited lecture, EGU organized press conference (April); Lecture University of Lausanne, Switzerland (Sept);
2011. Presidential Address, XXXIII Colloquium on Micropaleontology and Stratigraphy, Bangalore, India (Dec); Keynote address: XXXIII Colloquium on Micropaleontology and Stratigraphy, Bangalore, India (Dec). Colloquium lecture to Fellows of the Geological Society of India (Dec); Colloquium lecture, Northwest University, Xian, China (Sept)
2012. Colloquium lecture, Ana University, Chennai, India (Feb); AGU San Francisco (Dec)
2013. Keynote at International Conf. on Volcanism, Impacts and Mass Extinctions, London (March); Colloquium, Dartmouth College (April); Keynote, 9th Cretaceous Symposium, Ankara, Turkey (Sept)
2014. GSA Vancouver, Pardee keynote (Oct);

OUTREACH ACTIVITY:

- BBC Documentary “What Really killed the Dinosaurs” released fall 2004 (based on Keller’s team research in Mexico)
- American Museum of Natural History, NY, film/interview of fieldwork on the Chicxulub Impact in Texas, 2005.
- Gerta Keller on mass extinctions: 1 hour live TV (German) interview by Alexander Kluge, 2005
- History Channel Documentary “First Apocalypse” released Jan. 7, 2009 (includes Keller’s team research in India)
- Natural History Museum, Paris, new exhibit on the KT mass extinction featuring Keller’s Team research results on the Chicxulub impact and Deccan volcanism, exhibit opened in May 2010
- Numerous interviews on public radio in the US, Canada, England, France, Germany, Switzerland.
- Numerous interviews with journalists since 2003 leading to hundreds of articles in newspapers and magazines published across the world on results from Keller’s team on the end-Cretaceous mass extinction and its potential causes.
- Research articles written by Keller’s team based on their research results and published in popular magazines and multiple languages (English, French, German, Spanish) in the USA, France, Germany, Switzerland, England, Spain, Mexico, Brazil.
- Numerous Public lectures for non-scientists across the US, Europe and India
- Advising high school students on science research projects on the KT mass extinction.
- Extensive website maintained by Keller on popular research topics with explanations and illustration of main results.

SUPERVISION OF GRADUATE STUDENTS 1984-2013

- Ph.D. Paula Mateo** (principle advisor) Ph.D. expected 2016.
- Ph.D. Jahnvi Punekar** (principle advisor) Ph.D. expected 2015. Thesis: Environmental Effects of major Catastrophes in Earth History.
- Ph.D. Hassan Khozyem**, co-advisor Ph.D. 2013. The Paleocene-Eocene Thermal Maximum: Geochemistry of shallow marine to terrestrial sequences.
- Ph.D Brian Gertsch** (principle advisor) Ph.D. 2010, Thesis: Biostratigraphy, Paleoenvironment and Geochemistry of the late Cenomanian Oceanic Anoxic Event 2 and the Cretaceous/Tertiary Boundary. Currently postdoc at MIT
- Ph.D. Markus Harting** (co-advisor with Doris Stueben) Univ. of Karlsruhe, Germany, Ph.D.2004.Thesis. Zum Kreide/Tertiär-Übergang in NE-Mexiko: Geochemische Charakterisierung der Chicxulub-Impaktejekta.
- Ph.D. Markus Meudt** (co-advisor with Doris Stueben) Univ. of Karlsruhe, Germany, Ph.D. 2004. Geochemie der Foraminiferenschalen: Relevanz für die Rekonstruktion von Paläoumweltbedingungen.
- Ph.D. Sigal Abramovich** (principle advisor) Ph.D. (2002). Thesis: Paleoecology and paleoenvironment of Maastrichtian planktic foraminifera. Currently Assist. Prof. at the Univ. of Ben Gurion, Beer Sheba, Israel.
- Ph.D. Marie-Pierre Bolle** (co-advisor with Thierry Adatte) University of Neuchatel,

- Switzerland. (Ph.D.2000). Thesis: Climatic and Environmental changes in the Tethys region during the late Paleocene thermal maximum.
- Ph.D. Alfonso Pardo** (principal advisor), Ph.D. (1999). Thesis: The Cretaceous-Tertiary and Paleocene-Eocene environmental events. Currently at University of Zaragoza, Zaragoza, Spain.
- Ph.D. Liangquan Li** (principal advisor), Ph.D. (1997). Thesis: The Maastrichtian: An integral multi-disciplinary approach to evaluating climate, sea level and biotic changes in the marine realm. Currently financial analyst at Citibank.
- Ph.D. J. G. Lopez-Oliva** (principal advisor), Ph.D. Jan. 1996. Thesis: Stratigraphy of the Cretaceous-Tertiary (K-T) boundary transition in Northeastern and east-central Mexico. Currently Professor at the University of Nuevo Leon, Linares, Mexico.
- Ph.D. Gangyi Lu** (principal advisor) Ph.D. (1994). Thesis: Paleocene-Eocene transitional events in the ocean: Faunal and isotopic analyses of planktic foraminifera. Currently financial analyst at UBS Bank, NY
- Ph.D. Inaki Canudo** (co-advisor with E. Molina) Univ. of Zaragoza, Ph.D. (1990). Thesis: Planktonic Foraminifera of the Paleocene-Eocene of the Pyrenees and their comparison With the Betic Cordillera. Currently at the University of Zaragoza. Spain.
- Ph.D. Steve D'Hondt** (principal advisor) Ph.D. 1989/ Thesis: Environmental change and the planktic foraminiferal response to the K/T boundary event. Currently Professor at the Graduate School of Oceanography at the Univ. of Rhode Island.
- Ph.D. R.J. Murnane** (co-advisor with A. Fischer), Ph.D. 1988. Thesis: Opal Ge/Si and the Germanium Geochemical Cycle. Currently, Washington DC, Risk Management Office.
- Ph.D. Matthias Lindinger** (co-advisor with K. Hsu) ETH, Zurich, Ph.D. 1988. Thesis: The K/T boundaries of El Kef and Caravaca, sedimentological, geochemical and clay mineralogical aspects. Current position unknown.
- Ph.D. Tim Herbert** (co-advisor with Al Fischer) Ph.D. 1987. Thesis: Eccentricity and Precessional orbital Periodicities in a mid-Cretaceous deep-sea sequence: Identification and application to quantitative Paleoclimatology Currently Professor at Brown University, Rhode Island.

Post-Doctoral Fellows

Norman MacLeod, 1989-1993, currently NHM London
 Nieves Ortiz, 1993-1995
 Concha Gonzalez, 1995, Univ. Zaragoza, Spain
 Gangyi Lu, 1996-1997, Financial analyst, UBS, NY
 Liangquan Li, 1997-1998, Financial analyst, Citi Bank, NY
 Abdel Tantawy, 2004, South Valley University, Egypt
 Ahmed El Sabbagh, 2009 Rhode Scholar, Univ. Alexandria, Egypt
 Nallamuthu Malarkodi, Univ. of Bangalore, India

SUPERVISION OF UNDERGRADUATES

SENIOR THESIS

- James T. Shiroma**, 1986. Stratigraphy of the Paleogene San Juan Accretionary Prism, Dominican Republic.
- Cathleen A. Ryan**, 1987. Cadmium, Nickel, Manganese and Strontium in the benthic Foraminifer *Anomalinoidea acuta* across the Cretaceous/Tertiary Boundary, El Kef, Tunisia.
- Carleton, D. Perry**, 1988. Faunal Turnover and diversity Patterns of Planktic Foraminifera across the Cretaceous/Tertiary Boundary at the Ben Gurion, Section, Negev, Israel.
- Mark Carpenter**, 1988. A quantitative analysis of Benthic Foraminifera from the lower Paleocene in the Negev Desert, Israel.
- Will Clyde**, 1989-1990. Dwarfing of benthic Foraminifera across the K/T boundary.
- Christine Schluter**, 1991-92. Paleoecologic changes in the Danian Fauna of Denmark.
- Josh Steinberg**, 1995-96. K-T breccias of Guatemala.
- David Acevedo**, 1996-97. The nature of dinosaur eggs
- A. J. Ortega**, 1997. Niche reconstruction of an extinct South American mammal
- Joshua Krantz**, 1997. Examining the monsoon and El Niño
- Terry McCloskey**, SR, Fall-Spring 2002-2003 – Paleotemperature of Belize
- Sarah Brownlee**, SR, Fall-Spring 2002-2003 - Late Holocene climate of Hudson Estuary
- Yinan Yang**, SR, Fall-Spring 2004-2005 – Trilobite Paleocology of Morocco.
- David Bartels**, SR, Fall-Spring 2005-2006. Cenomanian-Turonian Anoxic Event.
- Willhelm Reinhardt**, SR, Fall-Spring 2005-2006, Cenomanian-Turonian environments in Brazil.
- Christian Miliam**, ST, 2008-09. Maastrichtian to Paleocene paleoenvironment in NE Brazil.
- Raymond C. Lagomarsino** ST (2008-09) Evaluating the Haynesville Black Shale Resource.
- Carl Hamming**, ST (2009-10) Environmental Effects of Volcanism.
- Conor Myhrvold**, ST (2009-2010) Antipodal Effects of Chicxulub impact.
- Emily Trost**, 2011-2012. Benthic species dwarfing: causes and stress conditions at KTB time

JUNIOR THESIS

- James T. Shiroma**, 1985. Planktic Foraminiferal analysis of the Dominican Republic.
- Cathleen Ryan**, 1986. Carbonate Analysis of DSDP Site 612 across a microtektite layer.
- Mark Carpenter**, 1987. Geochemical analysis (Cd, Ni, Mn, Sr, Ca) benthic Foraminifera at the K/T boundary in Texas.
- Carl Perry**, 1987. Carbonate Stratigraphy of K/T boundary sections DSDP Site 528, and Brazos River, Texas.
- Norman Alligar**, 1988. Compositional Analysis of Micro-Particles found near the K/T Boundary Brazos River Region, Texas, Negev Desert, Israel.
- Will Clyde**, 1988. Paleontologic Analysis of fossil fish remains.
- Craig Sovka**, 1991. Archeologic, paleontologic and climate evidence of environmental changes in Peru about 5000 years ago.
- Christin Schluter**, 1991. Archeologic, paleontologic and climatic evidence of environmental changes in the Sahara about 5000 years ago.
- Jena MacLean**, 1992. Morphometric analysis of dwarfing in Foraminifera across the

Cretaceous-Tertiary Boundary.

Michael Mills, 1992, Silurian Fish in Bloomsburg Formation

Jenifer Heisinger, 1992, Ar/Ar dating of K/T bentonite layers.

Steven Andrews, JP, Fall 2002

Jessica Garvin, Identification of microfossils from the Judith River Locality, Park County, Wyoming, JP Spring 2003

Maia Schweizer, Investigation of fossil ecosystem (Enspel and Messel, Germany) using stable isotope analysis, SEM and EDX, JP Spring 2003.

Yinan Yang, JP: Fall-Spring 2003-2004 – Chicxulub impact and the KT mass extinction

Willhelm Reinhardt, JP Fall-Spring 2004-2005. Brazos River, KT paleoenvironment.

David Bartels, JP Fall-Spring, 2004-2005, KT impact at Brazos River.

Ellen Zucherman, JP Fall 2005. Chicxulub impact and KT mass extinction

Erik Keselica, JP Fall 2005. Diatoms: commercial applications

Natasha Lavdovsky, JP 2007. The K-T event of Blake Nose, Atlantic Ocean

Carl Hamming, JP Fall 2008-09. Maastrichtian climate and the dinosaur extinction.

Connor Myhrvold, JP (2008-09) Modeling the impact-volcanism connection.

Emily Trost, 2010-2011. High-stress environmental conditions

Preston Kemeny, 2013-2014. Red boles in Deccan Traps

Martin Wolf, 2014-2015, Ocean Acidification experiment on planktic Foraminifera

PUBLISHED ARTICLES

- (1) 1978 **Keller, G.**, 1978. Late Neogene biostratigraphy and paleoceanography of DSDP Site 310 Central North Pacific and correlation with the southwest Pacific: *Marine Micropaleontology*, v. 3, p. 97-119.
- (2) 1978 **Keller, G.**, 1978. Late Neogene paleoceanography and planktonic foraminiferal datum levels of mid latitudes of the North Pacific (abstract), in *Correlation of tropical through high latitude marine Neogene deposits of the Pacific Basin: International Correlation Programme, Project 114*, Stanford, CA, p. 28-29.
- (3) 1978 **Keller, G.**, 1978. Late Neogene planktonic foraminiferal biostratigraphy and paleoceanography of the Northeastern Pacific: Evidence from Sites 173 and 310 at the North Pacific Front: *Journal for Foraminiferal Research*, v. 8, no. 4, p. 332-349.
- (4) 1978 **Keller, G.**, 1978. Morphologic variations of *Neoglobobulimina pachyderma* (Ehrenberg) in sediments of the marginal and central Northeast Pacific Ocean and paleoclimatic interpretation: *Journal of Foraminiferal Research*, v. 8, no. 3, p. 208-224.
- (5) 1978 **Keller, G.**, 1978. Planktonic foraminiferal biostratigraphy and paleoceanography of the North Pacific DSDP Sites 173, 310, and 296: Ph.D. Dissertation, Stanford University, Stanford, CA.
- (6) 1979 **Keller, G.**, 1979. Early Pliocene to Pleistocene planktonic foraminiferal datum levels in the North Pacific DSDP Sites 173, 310, and 296: *Marine Micropaleontology*, v. 4, p. 281-294.
- (7) 1979 **Keller, G.**, 1979. Late Neogene paleoceanography of the North Pacific DSDP Sites 173, 310, and 296: *Marine Micropaleontology*, v. 4, p. 159-172.
- (8) 1979 **Keller, G.**, 1979. Late Neogene planktonic foraminiferal biostratigraphy and paleoceanography of the Northwest Pacific DSDP Site 296: *Palaeogeography, Palaeoclimatology, Paleoecology*, v. 27, p. 129-154.
- (9) 1980 **Keller, G.**, 1980. Benthic foraminifera and paleobathymetry of the Japan Trench Area, Deep Sea Drilling Project, Leg. 57: *Initial Reports, Deep Sea Drilling Project*, v. 57, p. 835-865.
- (10) 1980 **Keller, G.**, 1980. Early to Middle Miocene planktic foraminiferal datum levels of the equatorial and subtropical Pacific: *Micropaleontology*, v. 26, no. 4, p. 372-391.

- (11) 1980 **Keller, G.**, 1980. Middle to Late Miocene planktic foraminiferal datum levels and paleoceanography of the north and southeastern Pacific Ocean: *Marine Micropaleontology*, v. 5, p. 249-281.
- (12) 1980 **Keller, G.**, 1980. Planktonic foraminiferal biostratigraphy and paleoceanography of the Japan Trench, Deep Sea Drilling Project, Leg. 57: Initial Reports, Deep Sea Drilling Project, v. 57, p. 809-834.
- (13) 1980 Ingle, J.C., Jr. and **Keller, G.**, 1980. Benthic foraminiferal biofacies of the eastern Pacific margin between 40°S and 32°N, in Quaternary depositional environments of the Pacific coast: Pacific Coast Paleogeography Symposium 4, Society of Economic Paleontologists and Mineralogists, Los Angeles, CA, 1980, p. 341-355.
- (14) 1980 **Keller, G.**, and Poore, R.Z., 1980. *Globigerinoides kennetti*: a new Late Miocene species from the Atlantic and Pacific oceans: *Micropaleontology*, v. 26, no. 2, p. 189-193.
- (15) 1980 von Huene, R.E., **Keller, G.** and others, 1980. Sites 438 and 439: Japan deep sea terrace, Leg 57: Initial Reports, Deep Sea Drilling Project, v. 56 and 57, p. 23-191, 20 figures, 4 tables.
- (16) 1980 von Huene, R.E., **Keller, G.** and others, 1980. Site 440: Japan Trench mid-slope terrace, Leg 57: Initial Reports, Deep Sea Drilling Project, v. 56 and 57, p. 225-317, 11 figures, 2 tables.
- (17) 1980 von Huene, R.E., **Keller, G.** and others, 1980. Site 441: Japan Trench lower slope, Leg 57: Initial Reports, Deep Sea Drilling Project, v. 56 and 57, p. 319-354, 13 figures, 2 tables.
- (18) 1980 Ingle, J.C., Jr., **Keller, G.** and Kolpack, R., 1980. Benthic foraminiferal biofacies and water-mass properties, Southern Peru-Chile Trench Area: *Micropaleontology*, v. 26, no. 2, p. 113-150.
- (19) 1980 Barron, J.A., Harper, E.H., **Keller, G.**, Reynolds, R.A., Sakai, T., Shaffer, B.L. and Thompson, R.P., 1980. Biostratigraphic summary, DSDP Leg 57, Japan Trench Transect: Initial Reports, Deep Sea Drilling Project, v. 57, p. 505-519.
- (20) 1981 **Keller, G.**, 1981. Miocene biochronology and paleoceanography of the North Pacific: CENOP Symposium Volume, marine *Micropaleontology*, 6: 535-551.
- (21) 1981 **Keller, G.**, 1981. Origin and evolution of the genus *Globigerinoides* in the Early Miocene of the northwestern Pacific, Site 292: *Micropaleontology*, 27(3): 293-304.

- (22) 1981 **Keller, G.**, 1981. Planktic foraminiferal biostratigraphy of the equatorial Pacific suggests Early Miocene origin of present-day oceanic circulation: *Marine Micropaleontology*, v. 6, p. 269-295.
- (23) 1981 **Keller, G.**, 1981. The genus *Globorotalia* in the Early Miocene of the equatorial and northwestern Pacific: *Journal of Foraminiferal Research*, v. 11, no. 2, p. 118-132.
- (24) 1981 **Keller, G.**, and Barron, J.A., 1981. Integrated planktic foraminiferal and diatom biochronology for the northeast Pacific and the Monterey Formation, in *The Monterey Formation and related siliceous rocks of California: Pacific Section, Society of Economic Paleontologists and Mineralogists*, p. 43-54.
- (25) 1981 **Keller, G.** and Ingle, J.C., Jr., 1981. Planktonic foraminiferal biostratigraphy, paleoceanographic implications, and deep sea correlation of the Plio- Pleistocene Centerville Beach section, Northern California: *Geological Society of America Special paper 181*, p. 127-135.
- (26) 1981 Savin, S., Douglas, W., **Keller, G.**, Killingly, S., Sommer, V. and Woodruff, F., 1981. Miocene benthic foraminiferal isotope records: A synthesis: *CENOP Symposium Volume, Marine Micropaleontology 6*: 423-450.
- (27) 1982 **Keller, G.**, Barron, J.A. and Burckle, L.H., 1982. North Pacific Late Miocene Correlations using microfossils, stable isotopes, percent CaCO₃, and magnetostratigraphy: *Marine Micropaleontology*, 7: 327-357.
- (28) 1982 Barron, J. and **Keller, G.**, 1982. Widespread Miocene deep-sea hiatuses: Coincidence with periods of global cooling, *Geology*, 10: 577-581.
- (29) 1983 **Keller, G.** and Barron, J.A., 1983. Paleoceanographic implications of Miocene deep-sea hiatuses, *Geol. Soc. of America Bull.*, 94(5): 1-30.
- (30) 1983 Barron, J.A. and **Keller, G.**, 1983. Paleoclimatic oscillations in the middle to late Miocene of the northeastern Pacific: *Micropaleontology*, 29(2): 150-181.
- (31) 1983 **Keller, G.**, 1983. Biochronology and paleoclimatic implications of middle Eocene to Oligocene planktonic foraminiferal faunas. *Marine Micropaleontology*, 7: 463-486.
- (32) 1983 **Keller, G.**, D'Hondt, S.L. and Vallier, T.L., 1983. Multiple microtectite horizons in upper Eocene marine sediments: no evidence for mass extinctions, *Science*, 221: 150-152.
- (33) 1983 **Keller, G.**, 1983. Paleoclimatic analysis of middle Eocene through Oligocene planktonic foraminiferal faunas. *Paleogeogr., Paleoclimatol., Paleoecol.*, 43: 73-94.

- (34) 1983 Keigwin, L.D. and **Keller, G.**, 1983. Middle Oligocene cooling from equatorial Pacific DSDP Site 77B, *Geology*, 12(1): 16-20.
- (35) 1984 **Keller, G.**, 1983. The Paleogene/Neogene Boundary in the equatorial Pacific Ocean. In: Gelati, R. & Steininger, F.F., eds., *Rivista Italiana di Paleontologia e stratigrafia*, 89(4): 529-545.
- (36) 1984 **Keller, G.**, von Huene, R.E., McDougall, K. and Bruns, T.R., 1984. Paleoclimatic evidence for Cenozoic migration of Alaskan terranes, *Tectonics*, 3(4): 473-495.
- (37) 1984 **Keller, G.**, 1984. Multiple Microtektite Horizons in upper Eocene marine sediments? -- Reply. *Science*, 224, 309-310.
- (38) 1984 K. Bruns, T.R. and **Keller, G.**, 1984. Model for the origin of the yakutat block, an accreting terrane in the northern Gulf of Alaska -- Reply, *Geology*, 12(9): 565-567.
- (39) 1984 Bruns, T.R., von Huene, R., Carlson, P.R. and **Keller, G.**, 1984. The Eastern Gulf of Alaska Transcurrent Plate Boundary and the Migration of Terranes. *Ann. Soc. Geol. Nord de France*, C 111, 325-331.
- (40) 1984 Corliss, B.H., Aubry, M.P., Berggren, W.A., Fenner, J.M., Keigwin, L.D. and **Keller, G.**, 1984. The Eocene/Oligocene Event in the Deep Sea Science, 226(4676): 806-810.
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PRESS CONFERENCES AND DOCUMENTARIES:

2007 Press release GSA – Megavolcanoes and Dinosaurs
2008 Press release NSF – Did volcanoes kill the dinosaurs
2008 Press release AGU- Volcanoes and mass extinctions
2009 Press release GSA – Chicxulub predates KT mass extinction
2009 Press release NSF – Chicxulub predates KT mass extinction
2010 Press release EUG – Volcanoes and mass extinctions
2011 Press release Princeton University: Mass extinction linked to Deccan Volcanism

AGU organized Press Conference (Dec. 15) based on our presentations on India’s Deccan volcanism and the KT mass extinctions. NSF sponsored press conference on Dec. 17. Articles appeared in many newspapers and magazines including Nature, Science News, Der Spiegel, San Francisco Chronicle, Fox News, BBC.

2013 International Conference on Volcanism, Impacts and Mass Extinctions: Causes and Effects, London march 27-29, 2013. Co-organizer.

GSA Annual Meeting, Vancouver Oct. 19-22, 2014. Co-organizer of the Pardee Symposium and Technical Session 206 on Mass Extinctions: Volcanism, impacts and catastrophic environmental change.

DOCUMENTARIES:

2004 BBC HORIZON Documentary “What didn’t kill the Dinosaurs” based on Keller et al’s findings that Chicxulub impact predates the KT mass extinction.

2009 History Channel Documentary “First Apocalypse” highlighted Keller et al.s theory that the dinosaur extinction was caused by volcanism. Released Jan. 7, 2009.