

Curriculum Vitae

Gerta Keller

**Professor of Geology and Paleontology
Department of Geosciences
Princeton University
Princeton NJ, USA**



Email: gkeller@princeton.edu

Web: <http://gkeller.princeton.edu/>

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

Gerta Keller

Phone: (609) 258-4117 (office), (609) 258-5807 (Department Office)

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 - Radhakrishna Prize for research on Deccan volcanism linked to the end-Cretaceous mass extinction.
- 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)
- European Geophysical Union (EGU)
- 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 OTHER ACADEMIC INSTITUTIONS AND SCIENTIFIC MEETINGS 2000-2014.

- 2000: Ben Gurion University, Beer Sheba, Israel lectures (March);
 - International Conference: Asteroids, Meteorites, Impacts & Consequences, Nordlingen
 - International Conference: Catastrophies, Vienna July 2000 Plenary Lecture;
 - Swiss Geological Society Annual Meeting Winterthur Plenary lecture;
 - MIT Colloquium lecture (Sept);
 - Annual Meeting of the Geological Society of America, lecture
- 2001: AAPG Conference, Boston (March);
 - University of California, Santa Barbara (May) Colloquium;
 - Annual Meeting of the Geological Society of America, lecture
- 2002. Cretaceous Climate Workshop (NSF), Florissant, CO (July);
 - International Micropaleontologic Congress, Plenary Speaker, Perth, Australia (Oct);
 - Black Shales Conference, lecture, Geol. Soc. London (Dec.)
- 2003: EUG-AUG meeting, Nice, France, special Session on Chixulub Drilling (April) Lecture;
 - 3rd International Conference on Large Meteorite Impacts, Nordlingen, Germany (August);
 - Cardiff Conference: Mantle Plumes and Biotice effects, Plenary Speaker, England (Sept)
- 2004: University of Neuchatel, Switzerland (May) Colloquium lecture;
 - University of Karlsruhe, Germany, Colloquium lecture (June);

- University of Paris 6, Institute Physique du Globe (July) Colloquium lecture;
 Sigma Xi lecture, Princeton University (Oct.);
 Annual Meeting of the Geol. Soc. America, Impact Symposium Lecture (invited);
 Evolution Symposium, Princeton University, lecture (Dec)
- 2005: Haydon Planetarium Lecture, New York Museum of Natural History, lecture (April);
 Paleontological Society, NJ (May); Keynote Lecture,
 Intern. Symposium on the Cretaceous, University of Neuchatel, Keynote lecture (Sept.);
 Binghamton University, NY Colloquium Lecture (Nov.)
- 2006: AGU Baltimore (May) lecture;
 GSA Ann. Meeting Philadelphia (Oct) invited Public lecture;
 GSA Ann. Meeting Invited lecture in two special sessions,
 GSA Press Conference on new results of Keller's team;
 University of Munich, Germany (Nov) Colloquium lecture;
 University of Neuchatel (Nov) Colloquium lecture;
- 2007: University of Paris 6, Physique de Globe de Paris Colloquium lecture (May);
 AGU-EUG Acapulco, Mexico, lecture (May);
 GSA Ann. Meeting, Denver, invited lecture, GSA Press release on new results
 Birbal Institute, Lucknow, India, Plenary lecture (Nov)
- 2008: AAPG Conference, Chennai, India, Keynote lecture;
 Oil & Natural Gas Corp. Research Institute, Dehra Dun, India (Jan) Lecture;
 "II Simposio Geocientífico Internacional" Keynote Lecture (June);
 AGU San Francisco, lecture and AGU Press conference,
 NSF press conference on new Deccan results of Keller's team (Dec).
- 2009: Oil & Natural Gas Corp. Research Institute, Dehra Dun, India, Lecture (Feb);
 RECCCE Workshop, IGP, April 2009, Gams, Austria, Invited Lecture (April);
 EUG Meeting, Vienna, Austria, Lecture (April);
 International Symposium on the Cretaceous, Plymouth, GB, Lecture (Sept);
 GSA Annual Meeting, Portland, keynote lecture, GSA press conference,
 NSF press conference on new Deccan results (Nov)
- 2010: Oil & Natural Gas Corp. Research Institute, Dehra Dun, India Lecture (Feb);
 Adikavi Nannaya University, Rajahmundry, India, Lecture (Feb);
 EGU Vienna, invited lecture, EGU press conference (April);
 University of Lausanne, Switzerland, Colloquium Lecture (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, Bangalore (Dec);
 Colloquium lecture, Northwest University, Xian, China (Sept)
- 2012: Colloquium lecture, Ana University, Chennai, India (Feb);
 AGU San Francisco, Lecture (Dec);
- 2013: AGU San Francisco (invited lecture);
 International Conf. on Volcanism, Impacts and Mass Extinctions, London (March),
 Keynote lecture, 9th Cretaceous Symposium, Ankara, Turkey (Sept),
 Colloquium lecture, Dartmouth College (April)
- 2014: GSA Annual Meeting, Vancouver (Oct.), Pardee Symposium lecture (invited);
 GSA Annual Meeting, Vancouver (Oct.) Invited lecture (T206).

- Women's Club of Princeton, invited lecture, Nov. 2014
- 2015: GSA Annual Meeting, Baltimore, invited lecture, Oct. 2015
 EGU Technical session SSP1 "Volcanism, Impacts, Mass Extinctions, and Global Environmental Change" Vienna, April 2015, Lecture.
 Men's Club of Princeton, Nov. 2015
- 2016: EGU Annual Meeting, Vienna, Lecture
 GSA Annual Meeting, Denver, 2 Lectures, one invited
- 2017: Florida State University, Colloquium lecture (Feb)
 EGU Annual Meeting, Vienna, Lecture
 GSA Annual Meeting, Seattle, Lecture

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
- 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. Sept. 2017. Environmental changes and timing of events during the Cretaceous-Paleogene transition: Assessing consequences of Deccan Volcanism and the Chicxulub impact.
- Ph.D. Jahnvi Punekar** (principle advisor) Ph.D. Nov. 5, 2015. Thesis: Planktic Foraminifera Extinctions and Delayed Biotic Recovery in the Late Maastrichtian-Early Danian: Link to Global Environmental Catastrophes?

- 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 Sheva, 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. Lianguan 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

Ilya Buynevich, Temple University, visiting fellow, sabbatical, Fall 2017

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 – Paleotempestology 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.

Martin Wolf, 2013-2014. Ocean acidification experiment on Foraminifera.

Hannah Tandy, 2017-2018. Climate change PETM & Anthropocene

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.

Martin Wolf, 2013. JP Ocean acidification experiment on Foraminifera.

Sophia Myers, 2014. Potential impact of Deccan volcanism and ocean acidification on benthic foraminifera

Anteneh Sarbanes, 2014. Stress influx on early Danian Climate

Maricela Coronado, 2015. The last 100,000 years of the Cretaceous

Hannah Tandy, 2017. Climatic and Faunal Changes Associated with Deccan Volcanism

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 *Neogloboquadrina 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.
- (41) 1985 **Keller, G.**, 1985. Eocene and Oligocene stratigraphy and erosional unconformities in the Gulf of Mexico and Gulf Coast. *Jour. Paleo.* v. 59(4): 882-903.
- (42) 1985 **Keller, G.**, 1985. Depth stratification of planktonic foraminifers in the Miocene ocean. *Geol. Soc. America, Memoir* 163, p. 177-197.
- (43) 1985 Barron, J.A., **Keller, G.** and Dunn, D.A., 1985. A multiple microfossil biochronology for the Miocene. *Geol. Soc. America, Memoir* 163, 21-37.
- (44) 1985 Barrera, E., **Keller, G.** and Savin, S.M., 1985. Evolution of the Miocene Ocean in the eastern North Pacific as inferred from oxygen and carbon isotope ratios of planktonic foraminifera. *Geol. Society of America, Memoir* 163, 83-102.
- (45) 1985 Savin, S.M., Abel, L., Barrera, E., Bender, M., Hodell, D., **Keller, G.**, Kennett, J.P., Killingley, J., Murphy, M., Vincent, E. and Woodruff, F., 1985. The evolution of Miocene surface and near-surface oceanography: oxygen isotope evidence. *Geol. Soc. America, Memoir* 163, 49-82.
- (46) 1985 Stone, S.M. and **Keller, G.**, 1985. Planktonic foraminiferal biostratigraphy of the middle America trench region, DSDP Leg 84, in press, In: *Initial Reports of the Deep Sea Drilling Project*, v. 84: 419-471.
- (47) 1985 von Huene, R., **Keller, G.**, Bruns, T.R., McDougall, K., 1985. Cenozoic migration of Alaskan terranes indicated by paleontologic study, *AAPG Special Publication*, 121-136.
- (48) 1985 Kennett, J.P., **Keller, G.** and Srinivasan, M.S., 1985. Miocene Planktonic Foraminiferal Biogeography and Paleooceanographic Development of the Indo-Pacific Region. *Geol. Soc. America Memoir* 163, 197-236.

- (49) 1985 Plafker, G., **Keller, G.**, Barron, J.D. and Blueford, J.R., 1985. Paleontologic data on the Age of the Orca Group, Alaska Report 85-429: United States Department of the Interior, Geological Survey.
- (50) 1986 **Keller, G.**, 1986. Stepwise Mass Extinctions and Impact Events: Late Eocene to early Oligocene. *Marine Micropaleo.*, 10: 267-293.
- (51) 1986 **Keller, G.**, 1986. Eocene-Oligocene Boundary reference sections in the Pacific. In: Ch. Pomerol and I. Premoli-Silva, eds., *Terminal Eocene Events*, Elsevier, p. 209-212.
- (52) 1986 **Keller, G.**, 1986. Late Eocene Impact events and Stepwise Mass Extinctions. In: Ch. Pomerol and I. Premoli-Silva, eds. *Terminal Eocene Events*, Elsevier, p. 403-412.
- (53) 1986 Sliter, V.W., McLaughlin, R.J., **Keller, G.**, and Evitt, W., 1986. Paleogene accretion of Late Cretaceous Oceanic Limestone in northern California, *Geology*, 14: 350-353.
- (54) 1987 **Keller, G.**, D'Hondt, Gilmore, C.G., Orth, C., Oliver, P.Q., Molina, E., and Shoemaker, E.M., 1987. Late Eocene Impact Microspherules: Stratigraphy, age and Geochemistry, *Meteoritics*, v. 22(1): 25-60.
- (55) 1987 Hut, P., Alvarez, W., Elder, W., Hansen, T., Kauffman, E.G., **Keller, G.**, Shoemaker, E.M. and Weissman, P., 1987. Comet Showers as Possible Causes of Stepwise Mass Extinctions, *Nature*, 329: 118-126.
- (56) 1987 D'Hondt, S.L., **Keller, G.** and Stallard, R.F., 1987. Major element compositional variation within and between Different late Eocene Microtektite strewn fields. *Meteoritics*, v. 22(1): 61-79.
- (57) 1987 **Keller, G.**, Herbert, T., Dorsey, R., D'Hondt, S., Johnsson, M. and Chi, W.R., 1987. Global Distribution of Late Paleocene Hiatuses, *Geology*, 15: 199-203.
- (58) 1987 **Keller, G.**, and Barron, J.A., 1987. Paleodepth distribution of Neogene Hiatuses, *Paleoceanography*, 2(6): 697-713.
- (59) 1988 **Keller, G.**, and S. D'Hondt, 1988. Reply to: Late Eocene Crystal-bearing spherules: Two Layers or One? A critique by B.P. Glass and C.A. Burns, *Meteoritics* 23(2):
- (60) 1988 **Keller, G.**, 1988a. Biotic Turnover of benthic Foraminifera across the Cretaceous/Tertiary Boundary at El Kef, Tunisia. *Paleogeogr., Paleoclimatol., Paleoecol.*, 66: 153-171.
- (61) 1988 **Keller, G.**, 1988b. Extinctions, Survivorship and Evolution across the Cretaceous/Tertiary Boundary at El Kef, Tunisia, *Marine Micropaleontology*, 13: 239-263.

- (62) 1989 Molina, E., **G. Keller** and N. Madile, 1988. Late Eocene to Oligocene Events: Molino de Cobo, Betic Cordillera, Spain. *Rev. Española de Micropaleontología*, 20(3): 491-514.
- (63) 1989 **Keller, G.**, and Lindinger, M., 1989. Stable Isotope, TOC and CaCO₃ record across the Cretaceous/Tertiary Boundary at El Kef, Tunisia, *Paleogeogr., Paleoclimatol., Paleoecol.*, v. 73(3/4): 243-265.
- (64) 1989 **Keller, G.**, Zenker, C.E., and Stone, S.M., 1989. Late Neogene History of the Caribbean Gateway, *Journal of South American Earth Sciences*, v. 2(1): 73-108.
- (65) 1989 **Keller, G.**, 1989a. Extended period of extinctions across the K/T boundary in planktic Foraminifera of continental Shelf sections: Implications for Impact and Volcanism Theories, *Geol. Soc. America Bulletin*, v. 101, p. 1408-1419.
- (66) 1989 **Keller, G.**, 1989b. Extended K/T boundary extinctions and delayed populational change in planktic Foraminiferal faunas from Brazos River Texas, *Paleoceanography*, 4(3): 287-332.
- (67) 1990 MacLeod, N., **G. Keller** and J.A. Kitchell, 1990. Progenesis in Late Eocene populations of *Subbotina linaperta* (Foraminifera) from the Western Atlantic, *Marine Micropaleontology*, 16: 219-240.
- (68) 1990 Barrera, E. and **G. Keller**, 1990. Stable isotope evidence for gradual environmental change and species survivorship across the K/T boundary, *Paleoceanography*, 5(6): 867-890.
- (69) 1991 **Keller, G.**, Ch. Benjamini, M. Magaritz and S. Moshkovitz, 1991. Faunal, erosional and CaCO₃ events in the Early Tertiary Eastern Tethys. In, *Global Catastrophes in Earth History, Snowbird II*, *Geol. Soc. Amer. Special Paper*, 247: 471-480.
- (70) 1991 **Keller, G.** and E. Barrera, 1991. The Cretaceous/Tertiary Boundary Impact hypothesis and the Paleontological Record. In, *Global Catastrophes in Earth History, Snowbird II*, *Geol. Soc. Amer. Special Paper*, 247: 563-575.
- (71) 1991 **Keller, G.**, 1991. Extended period of Extinctions across the Cretaceous/Tertiary Boundary: Reply to Comments by T. Hansen and J. Bourgeois, *Geol. Soc. America Bull.*, p. 435.
- (72) 1991 ~~**Keller, G.** and MacLeod, N., 1991. Faunal turnover and depth stratification: Their relationships to climate and productivity events in the Eocene to Miocene pelagic realm, In, Ishizaki, K. and Suito, T. eds., Centenary of Japanese Micropaleontology, Terra Scientific Publishing Company, Tokyo, p. 1-15.~~
- (73) 1991 MacLeod, N. and **Keller, G.**, 1991a. Hiatus distributions and mass extinctions at the Cretaceous/Tertiary boundary, *Geology*, v. 19: 497-501.

- (74) 1991 MacLeod, N. and **Keller, G.**, 1991b. How complete are Cretaceous/Tertiary Boundary sections? A Chronostratigraphic estimate based on graphic correlation. *Geol. Soc. Amer. Bull.*, 103: 1439-1457.
- (75) 1991 Canudo, J.I., **Keller, G.** and E. Molina, 1991. Cretaceous/Tertiary boundary extinction pattern and faunal turnover at Agost and Caravaca, SE Spain. *Marine Micropaleontology*, 17: 319-341.
- (76) 1991 D'Hondt, S. and **Keller, G.**, 1991. Some patterns of planktic foraminiferal assemblage turnover at the Cretaceous-Tertiary boundary, *Marine Micropaleontology*, 17: 77-118.
- (77) 1991 **Keller, G.** and Benjamini, C., 1991. Paleoenvironment of the eastern Tethys in the early Danian, *Palaios*, 6: 439-464. (Outstanding Paper of 1991 Award)
- (78) 1992 **Keller, G.**, 1992. Paleoecologic response of Tethyan benthic Foraminifera to the Cretaceous-Tertiary boundary transition. In, Takayanagi, Y. and Saito, T., eds., *Studies in Benthic Foraminifera*, Tokai University Press, Tokyo, p. 77-91.
- (79) 1992 **Keller, G.**, MacLeod, N. and Barrera, E., 1992. Eocene-Oligocene Faunal Turnover and Antarctic Glaciation, in Berggren, W. and Prothero, D. (eds.), *Eocene-Oligocene Climatic and Biotic Evolution*, Princeton University Press, 1992, p. 218-244.
- (80) 1992 **Keller, G.** and MacLeod, N., 1992, Faunal turnover and depth stratification: their relationship to climate and productivity events in the Eocene to Miocene pelagic realm, in Ishizaki, K., and Saito, T., eds., *Centenary of Japanese Micropaleontology: Contributed Papers in Honor of Professor Yokichi Takayanagi*: Tokyo, Terra Scientific Publishing Company, p. 1-14.
- (81) 1992 Magaritz, M.C. Benjamini, C., **Keller, G.** and S. Moshkovitz, 1992. Early diagenetic isotopic signal at the Cretaceous-Tertiary Boundary, Israel, *Paleocol.*, *Paleoclimatol.*, *Paleoceanogr.*, 91: 291-304.
- (82) 1992 Schmitz, B., **Keller, G.** and Stenvall, O., 1992. Stable Isotope changes across the Cretaceous-Tertiary Boundary at Stevns Klint, Denmark: Arguments for long-term oceanic instability before and after bolide impact event, *Paleogeogr.*, *Paleoclimatol.*, *Paleocol.*, 96: 233-260.
- (83) 1993 **Keller, G.**, 1993. The Cretaceous-Tertiary Boundary Transition in the Antarctic Ocean and its global implications, *Marine Micropaleontology*, v. 21; p. 1-45.
- (84) 1993 **Keller, G.**, Barrera, E., Schmitz, B. and Mattson, E., 1993. Gradual mass extinction, species survivorship and long-term environmental changes across the Cretaceous-Tertiary Boundary in high latitudes. *Geological Society of America Bull.*, v. 105, p. 979-997.

- (85) 1993 **Keller, G.**, Lyons, J.B., MacLeod, N., and Officer, C.B., 1993. Is there evidence for Cretaceous-Tertiary boundary impact deposits in the Caribbean and Gulf of Mexico? *Geology*, v. 21, p. 776-780.
- (86) 1993 **Keller, G.**, MacLeod, N., Ivany, L. and Salawitch, R., 1993, Carbon isotopic evidence for biomass burning at the K-T boundary: Comment and Reply: *Geology*, v. 21, p. 1149–1151.
- (87) 1993 Lu, G. and **Keller, G.**, 1993. Climatic and oceanographic events across the Paleocene-Eocene Transition in the Antarctic Indian Ocean: Inference from planktic foraminifera. *Marine Micropaleontology*, v. 21, p. 101-142.
- (88) 1993 Molina, E., Gonzalvo, C. and **Keller, G.**, 1993. The Eocene-Oligocene transition: extinctions, impacts and hiatuses. *Geological Magazine*, 130(4): 483-499.
- (89) 1993 Stinnesbeck, W., Barbarin, J.M., **Keller, G.**, Lopez-Oliva, J.G., Pivnik, D.A., Lyons, J.B., Officer, C.B., Adatte, T., Graup, G., Rocchia, R. and Robin, E., 1993. Deposition of near K/T Boundary clastic sediments in NE Mexico: Impact or Turbidite Deposits? *Geology*, v. 21, p. 797-800.
- (90) 1994 Barrera, E., and **Keller, G.**, 1994. Productivity across the Cretaceous-Tertiary boundary in high latitudes. *GSA Bull.*, v. 106: 1254-1266.
- (91) 1994 Canudo, J.L., **Keller, G.**, and Molina, E., 1994. Planktic foraminiferal turnover and $\delta^{13}\text{C}$ isotopes across the Paleocene-Eocene transition at Caravaca and Zumaya, Spain. *Paleoceanogr. Paleoclimatol, Paleoecol.*, v. 114: 75-100.
- (92) 1994 **Keller, G.**, 1994. Mass extinction and evolution patterns across the Cretaceous-Tertiary boundary, in, Molina, E., (ed.) *Extincion y Registro fosil, Cuadernos Interdisciplinarios No. 5*, Universidad de Zaragoza, Zaragoza, Spain, 165-200.
- (93) 1994 **Keller, G.** and MacLeod, N., 1994. The K-T boundary transition in the Antarctic Ocean: Reply. *Marine Micropaleo.*, v. 24:91-99.
- (94) 1994 **Keller, G.**, Stinnesbeck, W., Adatte, T., Lopez-Oliva, G. and MacLeod, N., 1994, The K/T boundary clastic deposits in northeastern Mexico as product of non-catastrophic geologic processes, in Keller, G., Stinnesbeck, W., Adatte, T., MacLeod, N., and Lowe, D., eds., *Field Guide to Cretaceous-Tertiary Boundary Sections in Northeastern Mexico*: Houston, Texas, Lunar and Planetary Institute, p. 65–94.
- (95) 1994 **Keller, G.**, Stinnesbeck, W., Adatte, T., MacLeod, N. and Lowe, D. R., 1994. *Field Guide to Cretaceous-Tertiary boundary sections in northeastern Mexico*. Lunar and Planetary Institute, Houston, LPI Contrib. No. 827, 110 p.

- (96) 1994 **Keller, G.**, Stinnesbeck, W., and Lopez-Oliva, J.G., 1994. Age, Deposition and biotic effects of the Cretaceous/Tertiary Boundary Event at Mimbral, NE Mexico. *Palaos*, 9:144-157.
- (97) 1994 MacLeod, N. and **Keller, G.**, 1994. Comparative biogeographic analysis of planktic foraminiferal survivorship across the Cretaceous/Tertiary boundary. *Paleobiology*, 20(2): 143-177.
- (98) 1994 Stinnesbeck, W., Adatte, T., **Keller, G.**, and Lopez-Oliva, J. G., 1994. Correlaciones sedimentológicas y mineralogicas entre los depositos canalizados del limite K/T en el Noreste de Mexico: Implicaciones para el mecanismo de su deposicion. *Revista de la Sociedad Mexicana de Paleontologia*, v. 7, Núm. 1, p. 69-80.
- (99) 1994 Stinnesbeck, W. and **Keller, G.**, 1994. Field Guide to the Cretaceous-Tertiary Boundary section of Poty, north of Recife, northeastern Brazil. 14th International Sedimentological Congress (IAS 94), Recife, August, 1994, p. 1-19.
- (100) 1994 Stinnesbeck, W., **Keller, G.**, Adatte, T. and MacLeod, N., 1994. Deposition of channel deposits near the Cretaceous-Tertiary boundary in northeastern Mexico: Reply. *Geology*, 22: 955-956.
- (101) 1995 **Keller, G.** and Salis Perch-Nielsen, K.V., 1995. Cretaceous/Tertiary Mass Extinction: Effect of Global Change on Calcareous Microplankton. S. Stanley and J.P. Kennett (eds.), *Global Change*, National Research Council, National Academy of Sciences, p. 72-93.
- (102) 1995 Lu, G. and **Keller, G.**, 1995. Ecological stasis and saltation: Species richness change in planktic foraminifera during the late Paleocene to early Eocene, DSDP Site 577. *Paleogeogr., Paleoclimat., Paleoecol.*, v. 117: 211-227.
- (103) 1995 Lu, G., and **Keller, G.**, 1995. Planktic foraminiferal turnovers in the subtropical Pacific during the late Paleocene to early Eocene. *J. Foram. Res.*, 25: 97-116.
- (104) 1995 Lu, G., **Keller, G.**, Adatte, T., and Benjamini, C., 1995. Abrupt change in the upwelling system along the southern margin of the Tethys during the Paleocene-Eocene transition event, *Isr. J. Earth Sci.*, 44: 185-195.
- (105) 1995 Stinnesbeck, W., and **Keller, G.**, 1995. The Cretaceous-Tertiary boundary in southern low-latitude regions: preliminary study in Perambuco, northeastern Brazil - Comments and Reply. *Terra Nova*, 7:375-382.
- (106) 1995 Ward, W. C., **Keller, G.**, Stinnesbeck, W., and Adatte, T., 1995. Yucatan subsurface stratigraphy: Implications and constraints for the Chicxulub impact. *Geology*, 23:873-876.

- (107) 1995 **Keller, G.**, Li, L. and MacLeod, N., 1995. The Cretaceous/Tertiary boundary stratotype section at El Kef, Tunisia: How catastrophic was the mass extinction? *Paleogeogr., Paleoclimat., Paleoecol.*, 119: 221-254.
- (108) 1995 **Keller, G.** and MacLeod, N., 1995, The Cretaceous-Tertiary boundary transition in the Antarctic Ocean: Reply: *Marine Micropaleontology*, v. 24, p. 101–118.
- (109) 1996 Adatte, T., Stinnesbeck, W. and **Keller, G.**, 1996. Lithostratigraphic and mineralogical correlations of near-K/T boundary clastic sediments in NE Mexico: Implications for origin and nature of deposition. *Geol. Society Amer., Special Paper 307*, p. 211-226.
- (110) 1996 **Keller, G.**, 1996. The K/T mass extinction in planktic foraminifera biotic constraints for catastrophe theories. In, MacLeod, N. and Keller, G. (eds.), *The Cretaceous-Tertiary mass extinction: Biotic and environmental events*, Norton Press, New York, p. 63-100.
- (111) 1996 **Keller, G.** and Stinnesbeck, W., 1996. Sea level changes, clastic deposits and megatsunamis across the Cretaceous-Tertiary boundary. In, MacLeod, N., and Keller, G. (eds.), *The Cretaceous-Tertiary mass extinction: Biotic and environmental events*, Norton Press, New York, p. 415-450.
- (112) 1996 **Keller, G.**, and Stinnesbeck, W., 1996. Near-K/T age of clastic deposits from Texas to Brazil: impact, volcanism and/or sea-level lowstand? *Terra Nova*, 8: 277-285.
- (113) 1996 Lopez-Oliva, J. G., and **Keller, G.**, 1996. Age and stratigraphy of near-K/T boundary clastic deposits in NE Mexico. *Geol. Soc. Amer., Special Paper 307*. p. 227-242.
- (114) 1996 Lu, G., and **Keller, G.**, 1996. Separating ecological assemblages using stable isotope signals: late Paleocene to early Eocene planktic foraminifera, DSDP Site 577, *J. Foram. Res.*, 26(2): 103-112.
- (115) 1996 Lu, G., **Keller, G.**, Adatte, T., Ortiz, N., and Molina, E., 1996. Long-term (10^5) or short-term (10^3) $\delta^{13}\text{C}$ excursion near the Paleocene-Eocene transition: evidence from the Tethys. *Terra Nova*, 8:347-355.
- (116) 1996 Pardo, A., Ortiz, N. and **Keller, G.**, 1996. Latest Maastrichtian and K/T boundary foraminiferal turnover and environmental changes at Agost, Spain. In, MacLeod, N. and Keller, G., (eds.), *The Cretaceous-Tertiary Mass Extinction: Biotic and Environmental Effects*, Norton Press, New York, p. 157-191.
- (117) 1996 Stinnesbeck, W. and **Keller, G.**, 1996. Environmental changes across the Cretaceous-Tertiary boundary in northeastern Brazil. In, MacLeod, N. and Keller, G., (eds.), *The Cretaceous-Tertiary Mass Extinction: Biotic and Environmental*

Effects, Norton Press, New York, p. 451-470.

- (118) 1996 Stinnesbeck, W., **Keller, G.**, Adatte, T., Lopez-Oliva, J. G. and MacLeod, N., 1996. Cretaceous-Tertiary boundary clastic deposits in NE Mexico: Bolide impact or sea-level lowstand? In, MacLeod, N. and Keller, G., (eds.), The Cretaceous-Tertiary Mass Extinction: Biotic and Environmental Effects, Norton Press, New York, p. 471-518.
- (119) 1996 Stinnesbeck, W. and **Keller, G.**, 1996. K/T boundary clastic deposits in NE Mexico and NE Brazil: Evidence for megatsunamis or sea-level changes? *Geol. Soc. Amer. Special Paper 307*, p. 197-210.
- (120) 1997 **Keller, G.**, 1997. Analysis of El Kef blind test I. *Mar. Micropaleontol.* 29, 89-93.
- (121) 1997 **Keller, G.**, Adatte, T., Hollis, C., Ordóñez, M., Zambrano, I., Jiménez, N., Stinnesbeck, W., Aleman, A., and Hale-Erlich, W., 1997. High-latitude response to the K/T boundary event in Ecuador. *Marine Micropaleontology*, 31, 97-133.
- (122) 1997 **Keller, G.**, Lopez-Oliva, J. G., Stinnesbeck, W., and Adatte, T., 1997. Age, stratigraphy and deposition of near-K/T siliciclastic deposits in Mexico: Relation to bolide impact? *Geol. Soc. Amer. Bull.*, 109: 410-428.
- (123) 1997 Stinnesbeck, W. **Keller, G.**, De La Cruz, J, De León, C., MacLeod, N., Whittacker, J.E., 1997. The Cretaceous-Tertiary boundary in Guatemala: limestone breccia deposits from the South Peten Basin, *Geologische Rundschau*, v. 86: 686-709.
- (124) 1997 Pardo, A., **Keller, G.**, Molina, E and J.I. Canudo, 1997. Planktic foraminiferal turnover across the Paleocene-Eocene transition at DSDP Site 401, Bay of Biscay, North Atlantic. *Marine Micropaleontology*, 29: 129-158.
- (125) 1998 Bolle, M.-P., Adatte, T., **Keller, G.**, v. Salis, K., and Hunziker, J., 1998. Stratigraphy, mineralogy and geochemistry of the Trabakua Pass and Ermua sections in Spain: Paleocene-Eocene transition. *Ecologiae Geol. Helv.* v. 91: 1-25.
- (126) 1998 Li, L., and **Keller, G.**, 1998. Maastrichtian climate, productivity and faunal turnovers in planktic foraminifera in South Atlantic DSDP Sites 525A and 21, *Marine Micropaleontology*, 33: 55-86.
- (127) 1998 **Keller, G.**, Li, L., Stinnesbeck, W., and Vicenzi, E., 1998. The K/T mass extinction, Chicxulub and the impact-kill effect. *Geol. Soc. France*, 169940: 485-491.
- (128) 1998 **Keller, G.**, Adatte, T., Stinnesbeck, W., Stuben, D., Kramar, U., Berner, Z.,

- Li, L. and K. von Salis Perch-Nielsen, 1998. The Cretaceous-Tertiary transition on the shallow Saharan Platform in southern Tunisia. *GeoBios*, v. 30,7: 951-975.
- (129) 1998 Li, L. and **Keller, G.**, 1998. Diversification and extinction in Campanian-Maastrichtian planktic foraminifera of northwestern Tunisia. *Eclogae Geol. Helvetica*, 91: 75-102.
- (130) 1998 Oberhänsli, H., **Keller, G.**, Adatte, T., and Pardo, A., 1998. Environmentally and diagenetically controlled changes across the K/T transition at Koshak, Mangyshlak (Kazakhstan). *Geol. Soc. France*, 169(4): 493-501.
- (131) 1998 Lu, G., Adatte, T., **Keller, G.**, and Molina, E., 1998. Abrupt climatic, oceanographic and ecologic changes near the Paleocene-Eocene transition in the deep Tethys basin, *Eclogae Geol. Helv.*, 91: 293-306.
- (132) 1998 Lu, G., **Keller, G.** and Pardo, A., 1998. Stability and change in Tethyan planktic foraminifera across the Paleocene-Eocene transition. *Marine Micropaleontology* 35: 203-233.
- (133) 1998 Li, L., and **Keller, G.**, 1998. Abrupt deep-sea warming at the end of the Cretaceous. *Geology*, 26(11): 995-998.
- (134) 1999 Bolle, M-P., Adatte, T., **Keller, G.**, von Salis Perch-Nielsen, K., and Burns, S., 1999. Climate and sea level fluctuations during the Paleocene-Eocene transition in Tunisia. *Bull., Geol. Soc. France*, 170(5):661-680.
- (135) 1999 Pardo, A., **Keller, G.**, and Oberhänsli, H., 1999. Paleoecologic and Paleooceanographic evolution of the Tethyan realm during the Paleocene-Eocene transition, *J. Foram. Res.* 29(1): 37-57.
- (136) 1999 Remane, J., **Keller, G.**, Hardenbol, J. and M. Ben Haj Ali, 1999. Report on the International Workshop on Cretaceous-Paleogene Transitions, *Episodes*, 22(1):47-48.
- (137) 1999 Li, L., **Keller, G.**, and Stinnesbeck, W., 1999. The late Campanian and Maastrichtian in northwestern Tunisia: Paleoenvironmental inferences from lithology, macrofauna and benthic foraminifera. *Cretaceous Research*, 20: 231-252.
- (138) 1999 Li, L. and **Keller, G.**, 1999. Variability in Late Cretaceous climate and deep waters: Evidence from stable isotopes. *Marine Geology*, 161: 171-190.
- (139) 1999 Pardo, A. and **Keller, G.**, 1999. Aspectos paleoceanográficos y paleoecológicos del límite Cretácico/Terciario en la Península de Mangyshlak (Kazakstan): inferencias a partir de foraminíferos planctónicos. *Rev. Esp.*

Micropal. 31 (2), 265-278.

- (140) 1999 Stinnesbeck, W., **Keller, G.** Adatte, T., Stueben, D., Kramar, U., Berner, Z., Desreumeaux, C., and Moliere, E., 2000. Beloc, Haiti, revisited: multiple events across the Cretaceous-Tertiary transition in the Caribbean? *Terra Nova*, v. 11: 303-310.
- (141) 1999 Pardo, A., Adatte, T., Keller, T., Oberhaensli, H., 1999. Paleoenvironmental changes across the Cretaceous-Tertiary boundary at Koshak, Kazakhstan, based on planktic foraminifera and clay mineralogy. *Paleogeogr., Paleoclimat., Paleoecol.*, 154, 247-273.
- (142) 2000 **Keller, G.** and Stinnesbeck, W. 2000. Iridium and the K/T boundary at El Caribe, Guatemala. *International Journal of Earth Sciences* 88, p. 840-843.
- (143) 2000 Li, L., **Keller, G.**, Adatte, T. and W. Stinnesbeck, 2000. Late Cretaceous sea-level changes in Tunisia: a multi-disciplinary approach. *Journal of Geological Society, London*, 157:447-458.
- (144) 2000 Bolle, M.-P., Pardo, A., Hinrichs, K.U., Adatte, T., von Salis, K., Burns, S., **Keller, G.**, and Muzylev, N., 2000. The Paleocene-Eocene transition in the marginal northeastern Tethys (Kazakhstan and Uzbekistan. In. *J. Earth Sci*, 89, 390-414.
- (145) 2001 Stinnesbeck, W., P. Schulte, F. Lindenmaier, T. Adatte, M. Affolter, L. Schilli, **G. Keller**, D. Stueben, Z. Berner, U. Kramer, S. Burns, and J.G. Lopez-Oliva, 2001. Late Maastrichtian age of spherule deposits in northeastern Mexico: implications for Chicxulub scenario. *Canadian Journal of Earth Sciences*, 38, 229-238.
- (146) 2001 **Keller, G.**, T. Adatte, W. Stinnesbeck, D. Stueben and Z. Berner, 2001. Age, chemo- and biostratigraphy of Haiti spherule-rich deposits: a multi-event K-T scenario. *Canadian Journal of Earth Sciences*, 38, 197-227.
- (147) 2001 **Keller, G.**, 2001. The end-Cretaceous Mass Extinction: Year 2000 Assessment. *J. Planetary and Space Science*, 49, 817-830.
- (148) **Keller, G.**, Q. Han, T. Adatte, and S.J. Burns, in 2001. Paleoenvironment of the Cenomanian-Turonian transition at Eastbourne, England. *Cretaceous Research*, 22, 391-422.
- (149) Tantawy, A.A., **Keller, G.**, Adatte, T., Stinnesbeck, W., Kassab, A., and Schulte, P., 2001. Maastrichtian to Paleocene (Dakhla Formation) depositional environment of the Western Desert in Egypt: Sedimentology, Mineralogy and integrated micro- and macrofossil biostratigraphies. *Cretaceous Research*, 22, 795-827.

- (150) Kramar, U., Stüben, D., Berner, Z., Stinnesbeck, W., Philipp, H., **Keller, G.**, 2001. Are Ir anomalies sufficient and unique indicators for cosmic events? *Planetary and Space Science* 49, 831-837.
- (151) **Keller, G.**, Adatte, T., Stinnesbeck, W., Affolter, M. Schilli, L. and Lopez-Oliva, J.G., 2002. Multiple Spherule Layers in the late Maastrichtian of northeastern Mexico. *GSA Special Vol.* 356, 145-162.
- (152) Stüben, D., Kramar, U., Berner, Z., Eckhardt, J.D., Stinnesbeck, W., **Keller, G.**, Adatte, T. and Heide, K. 2002. Two anomalies of platinum group elements above the Cretaceous-Tertiary boundary at Beloc, Haiti: Geochemical context and consequences for the impact scenario: *Geological Society of America, Special Volume*, 356, 163-188.
- (153) Adatte, T. **Keller, G.**, Burns, S., Stoykova, K.H., Ivanov, M.I., Vangelov, D., Kramar, U. and Stueben, D., 2002. Paleoenvironment across the Cretaceous-Tertiary (K-T) transition at Bjala, eastern Bulgaria. *GSA Special Paper* 356, 231-252.
- (154) **Keller, G.**, Adatte, T., Stinnesbeck, W., Luciani, V., Karoui, N., Zaghib-Turki, D., 2002. Paleocology of the Cretaceous-Tertiary mass extinction in planktic foraminifera. *Paleogeogr., Paleoclimatol., Paleoecol.*, 178, 257-298.
- (155) Karoui-Yaakoub, N., Zaghib-Turki, D. and Keller, G., 2002. The Cretaceous-Tertiary (K-T) mass extinction in planktic foraminifera at Elles I and El Melah, Tunisia. *Paleogeogr., Paleoclimatol., Paleoecol.*, 178, 233-256.
- (156) Abramovich, S. and **Keller, G.**, 2002. High stress late Maastrichtian Paleoenvironment in Tunisia: Inference from planktic foraminifera. *Paleogeogr., Paleoclimatol., Paleoecol.*, 178, 145-164.
- (157) Abramovich, S., **Keller, G.**, Adatte, T., Stinnesbeck, W., Hottinger, L., Stueben, D., Berner, Z., Ramanivosoa, B. and A. Randriamanantenasoa, 2002. Age and Paleoenvironment of the Maastrichtian-Paleocene of the Mahajanga Basin, Madagascar: a multidisciplinary approach. *Marine Micropaleontology*, 47, 17-70.
- (158) Stueben, D., Kramar, U., Berner, Z., Leosson, M., **Keller, G.**, Adatte, T., and W. Stinnesbeck, 2002. High resolution carbon and oxygen isotope profiles of foraminifera and the Ca-normalized Sr curve of the late Maastrichtian at Elles, Tunisia. *Paleogeogr., Paleoclimatol., Paleoecol.*, 178, 321-345.
- (159) Adatte, T., **Keller, G.**, Stinnesbeck, W., 2002. Late Cretaceous to early Paleocene climate and sea-level fluctuations. *Paleogeogr., Paleoclimatol., Paleoecol.*, 178, 165-198.
- (160) **Keller, G.** and Stinnesbeck, W., 2002. Slumping and a sandbar deposit at the Cretaceous-Tertiary boundary in the El Tecolote section (northeastern Mexico): An impact-induced sediment gravity flow – Comment. *Geology*, 30, 382-383.

- (161) Wolfgang Stinnesbeck, **Gerta Keller**, Peter Schulte, Doris Stüben, Zsol Berner, Utz Kramar, José Guadalupe Lopez-Oliva, 2002. The Cretaceous-Tertiary (K/T) Boundary transition at Coxquihui, state of Veracruz, Mexico: evidence for an early Danian impact event? *Am. J. S. Amer. Res.* 15, 497-509.
- (162) **Keller, G.**, 2002 *Guembelitra* dominated late Maastrichtian planktic foraminiferal assemblages mimic early Danian in the Eastern Desert of Egypt. *Marine Micropaleontology*, 47(1-2), 71-99.
- (163) **Keller, G.**, Adatte, T., Burns, S.J., and A. Tantawy, 2002, High stress paleoenvironment during the late Maastrichtian to early Paleocene in Central Egypt. *Paleogeogr., Paleoclimatol., Paleoecol.*, 187, 35-60.
- (164) Abramovich S., and **Keller, G.**, 2003. Planktic foraminiferal response to latest Maastrichtian abrupt warm event a case study from mid-latitude DSDP Site 525. *Marine Micropaleontology* 48, 225-249.
- (165) Schulte, P., Stinnesbeck, W., Stueben, D., Kramar, U., Berner, Z., **Keller, G.**, and Adatte, T., 2003. Fe-rich and K-rich mafic spherules from slumped and channelized Chicxulub ejecta deposits in the northern La Sierrita area, NE Mexico. *Int. J. Earth Sci.* 92, 114-142.
- (166) Stueben, D., Kramar, U., Berner, Z.A., Meudt, M., **Keller, G.**, Abramovich, S., Adatte, T., Hambach, U., and Stinnesbeck, W., 2003. Late Maastrichtian paleoclimatic and paleoceanographic changes inferred from Sr/Ca ratio and stable isotopes. *Paleoclimatol. Paleoecol. Paleogeogr.*, 199, 107-127.
- (167) **Keller, G.**, Stinnesbeck, W., Adatte, T. and Stueben, D., 2003. Multiple Impacts across the Cretaceous-Tertiary boundary. *Earth Science Reviews*, 62, 327-363.
- (168) **Keller, G.**, Stinnesbeck, W., Adatte, T., Holland, B., Stueben, D., Harting, M., C. de Leon and J. de la Cruz, 2003. Spherule deposits in Cretaceous-Tertiary boundary sediments in Belize and Guatemala. *J. Geol. London*, 160, 1-13.
- (169) **Keller, G.** 2003. Biotic effects of impacts and volcanism. *Earth and Planetary Science Letters* 215, 249-264.
- (170) **Gerta Keller**, Thierry Adatte and Wolfgang Stinnesbeck, 2003. The non-smoking gun, *Geoscientist* 13 (11), 8-11.
- (171) Abramovich, S., **Keller, G.**, Stueben, D. and Berner, Z., 2003. Characterization of late Campanian and Maastrichtian planktic foraminiferal depth habitats and vital activities based on stable isotopes. *Paleoclimatol. Paleoecol. Paleogeogr.* 202: 1-29.
- (172) Tantawy, A.A.A. and **Keller, G.**, 2003. Biotic Effects of volcanism on calcareous

- nannofossils and planktic foraminifera: Ninetyeast Ridge, Indian Ocean. *Egyptian Journal of Paleontology*, 3, 1-23.
- (173) **Keller, G.**, 2004. Paleocology of Late Maastrichtian-early Danian planktic foraminifera in the eastern Tethys, *J. Foram. Res.* 34(1): 49-73.
- (174) **Keller, G.** and Pardo, A., 2004. Paleocology of the Cenomanian-Turonian Stratotype Section (GSSP) at Pueblo, Colorado. *Marine Micropleontology*, 51: 95-128.
- (175) **Keller, G.**, Stueben, D., Berner, Z. and Adatte, T., 2004. Cenomanian-Turonian $\delta^{13}\text{C}$, $\delta^{18}\text{O}$, sea-level and salinity variations at Pueblo, Colorado. *Paleoclimatol. Paleoecol. Paleogeogr.* 211, 19-43.
- (176) **Keller, G.**, Adatte, T., Stinnesbeck, W., Rebolledo-Vieyra, M., Urrutia Fucugauchi, J., Kramar, U. and Stueben, D., 2004. Chicxulub crater predates K-T boundary mass extinction. *PNAS* 101(11): 3721-3992.
- (177) **Keller, G.**, Adatte, T., Stinnesbeck, W., 2004. More Evidence that Chicxulub predates KT boundary. *Meteoritics and Planetary Science (MAPS)* 39(6/7), 1127-1144.
- (178) Wolfgang Stinnesbeck, **Gerta Keller**, Thierry Adatte, Markus Harting, Doris Stüben, Georg Istrate and Utz Kramar (2004): Yaxcopoil-1 and the Chicxulub impact. *Int. J. Earth Sci.* 93(6), 1042 - 1065.
- (179) **Keller, G.** and Pardo, A., 2004. Disaster Opportunists Guembelitrinidae – Index for Environmental Catastrophes. *Marine Micropaleontology* 53, 83-116.
- (180) **Keller, G.**, 2004. Suche nach der Ursache des Massensterbens vor 65 Millionen Jahren. *Werdenberger Jahrbuch* p. 189-200.
- (181) **Keller, G.** 2004. La Météorite innocente. *La Recherche* 379, 30-36.
- (182) Adatte, T. **Keller, G.**, Stueben, D., Harting, M., Kramar, U., Stinnesbeck, W., Abramovich, S. and Benjamini, C., 2005. Late Maastrichtian and K/T paleoenvironment of the eastern Tethys (Israel): mineralogy, trace element and platinum group elements, biostratigraphy and faunal turnovers. *Bulletin Société Géologique de France*. 176, 1, 35-53.
- (183) **Keller, G.**, 2005. Biotic effects of late Maastrichtian mantle plume volcanism: implications for impacts and mass extinctions. *Lithos*, 79, 317-341.
- (184) **Keller, G.** Impacts, volcanism and mass extinctions: random coincidence or cause & effect? *Australian Journal of Earth Sciences*, 52, 725-757.
- (185) Stueben, D., Harting, M., Kramar, U., Stinnesbeck, W., **Keller, G.**, and

- Adatte, T., 2005. High resolution geochemical record in Mexico during the Cretaceous-Tertiary transition. *Geochimica et Cosmochimica Acta*, 69, (10), 2559-2579.
- (186) Stinnesbeck, W., Ifrim, C., Schmidt, H., Rindfleisch, A., Buchy, M.-C., Frey, E., González-González, A.H., Vega, H.J., Cavin, L., **Keller, G.** and Smith, K.T., 2005. A new lithographic limestone deposit in the Upper Cretaceous Austin Group at El Rosario, County of Muzquiz, Coahuila, Northeastern Mexico. *Revista Mexicana Ciencias Geológicas*, v. 22 (3), 401-418.
- (187) Stinnesbeck, W., **Keller, G.**, Schafhauser, A., and Götz, S., 2005, Basinward transport of Chicxulub ejecta by tsunami-induced backflow, La Popa basin, NE Mexico: Comment: *Geology Online*, September 2005, p. e86, doi: 10.1130/0091-7613(2005)31<e86:BTOCEB>2.0.CO;2.
- (188) **Keller, G.** and Pardo, A., 2006. Qué mató a los dinosaurios? Muy Interesante, May 2006.
- (189) **Keller, G.** and Pardo, A., 2007. Guembelitra blooms-environmental catastrophes index. In: Devesh K. Sinha (ed.) *Microplaleontology - Application in stratigraphy and paleoecology*, Narosa Publishing House Pvt. Ltd, Dehli, India, p 211-225.
- (190) **Keller, G.**, Adatte, T., Berner, Z., Harting, M., Baum, G., Prauss, M., Tantawy, A. A. and Stueben, D., 2007. Chicxulub Impact Predates K-T Boundary: New Evidence from Texas. *Earth and Planet. Sci. Letters* 255, 339-356.
- (191) **Keller, G.**, 2007. K-T mass extinction and Chicxulub impact in Texas. *J. South Texas Geology, Geol. Soc. Amer.*, XLVII (9), p. 15-44.
- (192) Mort, H.P., Adatte, T., Föllmi, K.B., **Keller, G.**, Steinmann, P., Matera, V., Berner, Z., Stüben, D., 2007. Phosphorus and the roles of productivity and nutrient recycling during Oceanic Anoxic Event 2. *Geology* 35 (6) p.483-486.
- (193) Darvishzad, B., Ghasemi-Nejad, E. Ghourchaei, S. and **G. Keller**, 2007. Planktonic foraminiferal biostratigraphy and faunal turnover across the Cretaceous-Tertiary boundary in southwestern Iran. *Journal of Sciences, Islamic Republic of Iran* 18(2), 139-149.
- (194) **Keller, G.**, Adatte, T., Tantawy, A. A., Berner, Z., Stueben, D., 2007. High Stress Late Cretaceous to early Danian paleoenvironment in the Neuquen Basin, Argentina. *Cretaceous Research*, 28, 939-960.
- (195) 2008 **Keller, G.** Adatte, T. G.R. Baum, Z. Berner, 2008. Reply to Comment by Schulte et al. on "Chicxulub Impact Predates K-T Boundary: New Evidence from Brazos, Texas" *Earth and Planet. Sci. Letters* 269, 620-628.

- (196) 2008 **Keller, G.**, 2008. Impact Stratigraphy: old principle - new reality. GSA Special Paper 437, p.147-178.
- (197) 2008 **Keller, G.**, Adatte, T., Gardin, S., Bartolini, A., Bajpai, S., 2008. Main Deccan volcanism phase ends at K-T mass extinction: Evidence from the Krishna-Godavari Basin, SE India. Earth and Planet. Sci Lett. 268, 293-311.
- (198) 2008. McCloskey, T.A., and **Keller, G.**, 2008. 5000 year Sedimentary record of Hurricane strikes in Central Belize. Quaternary International, doi:10.1016/j.quaint.2008.03.003
- (199) 2008 Pardo, A. and **Keller, G.**, 2008. Biotic Effects of Environmental Catastrophes at the end of the Cretaceous: *Guembelitra* and *Heterohelix* Blooms. Cretaceous Research, v. 29 (5/6), 1058-1073; doi:10.1016/j.cretres.2008.05.031.
- (200) 2008 **Keller, G.**, 2008. Cretaceous climate, volcanism, impacts and biotic effects. Cretaceous Research, v. 29 (5/6), 754-771; doi: 10.1016/j.cretres.2008.05.030.
- (201) 2008 **Keller, G.**, Adatte, T., Berner, Z., Chellai, E.H., Stueben, D., 2008. Oceanic Events and Biotic Effects of the Cenomanian-Turonian Anoxic Event, Tarfaya Basin, Morocco. Cretaceous Research, v. 29 (5/6), 976-994, doi:10.1016/j.cretres.2008.05.020
- (202) 2008 Mort, H.P., Adatte, T., **Keller, G.**, Bartels, D., Föllmi, K.B., Steinmann, P., Berner, Z., Chellai, E.H., 2008. Organic carbon deposition and phosphorus accumulation during oceanic anoxic event 2 in Tarfaya, Morocco. Cretaceous Research, ISC7, v.29 (5/6), 1008-1023, doi:10.1016/j.cretres.2008.05.026.
- (203) 2008 Gertsch, B., **Keller, G.**, Adatte, T., Berner, Z., Tantawy, A.A. Kassab, A.S., El-Sabbagh, A.M., Mort, H.P. and Stueben, D. 2008. Cenomanian-Turonian transition in shallow water sequences of the Sinai, Egypt. Int. J. Earth Sciences (Geol. Rundschau) 2008, 99: 165-182. DOI 10.1007/s00531-008-0374-4.
- (204) 2009 **Keller, G.**, Abramovich, S., Berner, Z., Adatte, T., 2009. Biotic effects of the Chicxulub impact, K-T catastrophe and sea-level change in Texas. Paleogeogr., Paleoclimatol., Paleocol., 271, 52-68. doi:10.1016/j.palaeo.2008.09.007
- (205) 2009 **Keller, G.**, Sharma, R., Khosla, A., Khosla, S.C., Bajpai, S., 2009. Early Danian planktic foraminifera from Intertrappean beds at Jhilmili, Chhindwara District, Madhya Pradesh, India. J. Foram. Res., 39(1), 40-55.
- (206) 2009 **Keller, G.**, Adatte, T., Bajpai, S., Khosla, A., Sharma, R., Widdowson, M.,

- Khosla, S.C., Mohabey, D.M., Gertsch, B., Sahni, A., 2009. KT Transition in Deccan Traps of central India marks major marine seaway across India. *EPSL* v. 282, p. 10-23. *EPSL* 282, 10-23. doi:[10.1016/j.epsl.2009.02.016](https://doi.org/10.1016/j.epsl.2009.02.016)
- (207) 2009 **Keller, G.**, Adatte, T., Berner, Z., Pardo, A., Lopez-Oliva, L., 2009. New Evidence concerning the Age and Biotoc Effects of the Chicxulub impact in Mexico. *J. Geol. Society, London* 166, 393-411. doi:[10.1144/0016-76492008-116](https://doi.org/10.1144/0016-76492008-116).
- (208) 2009 **Keller, G.** and Abramovich, S., 2009. Lilliput Effect in late Maastrichtian planktic Foraminifera: Response to Environmental Stress. *Paleogeogr., Paleoclimatol., Paleoecol.*, 271, 52-68. doi:[10.1016/j.palaeo.2008.09.007](https://doi.org/10.1016/j.palaeo.2008.09.007)
- (209) 2009 Tantawy, A.A.A., **Keller, G.**, Pardo, A., 2009. Late Maastrichtian volcanism in the Indian Ocean: Effects on Calcareous Nannofossils and planktic Foraminifera. *Paleogeogr., Paleoclimatol., Paleoecol.*, 284, 63-87. Doi: [10.1016/j.palaeo.2009.08.025](https://doi.org/10.1016/j.palaeo.2009.08.025)
- (210) 2009 **Keller, G.**, Sahni, A., and Bajpai, S., 2009. Deccan volcanism, the KT mass extinction and dinosaurs. *J. Biosciences* 34, 709-728.
- (211) 2009 Pardo, A., **Keller, G.**, Adatte, T., 2009. Extinciones y evolucion de la vida; El ocaso de los dinosaurios; India: volcanismo masivo en el Transito K/T. *Ciencia Y DeSarollo*, Nov. 2009, 31-56.
- (212) 2010 Gertsch, B., **Keller, G.**, Adatte, T., Berner, Z., Tantawy, A.A., El-Sabbagh, A.M., Mort, H.P. and Stueben, D., 2010. Middle and Late Cenomanian anoxic events in shallow shelf environments of western Morocco. *Sedimentology*, 2010, doi: [10.1111/j.1365-3091.2010.01151.x](https://doi.org/10.1111/j.1365-3091.2010.01151.x)
- (213) 2010 Malarkodi, N., **Keller, G.**, Fayazudeen, P.J., and Mallikarjuna, U.B., 2010. Foraminifera from the early Danian Intertrappean beds in Rajahmundry Quarries, Andhra Pradesh, SE India. *J. Geological Society of India*, v. 75.p. 851-863.
- (214) 2010 **Keller, G.**, KT Mass Extinction: Theories and Controversies. *Geoscientist Online*, May 2010. <https://www.geolsoc.org.uk/gsl/geoscientist/features/keller/page7669.html>
- (215) 2010 **Keller, G.**, Adatte, T., Pardo, A., Bajpai, S., Khosla, A., Samant, B., 2010. Cretaceous Extinctions: Evidence Overlooked. *Science* v. 328, May 21, 2010, p. 973-974.
- (216) 2011 El-Sabbagh, A.M., Tantawy, A.A., **Keller, G.**, Khozyem, H.M., Spangenberg, J., Adatte, T., Gertsch, B., 2011. Stratigraphy of the Cenomanian-Turonian Oceanic Anoxic Event OAE2 in shallow Shelf Sequences. *Cretaceous Research*, doi:[10.1016/j.cretres.2011.04.006](https://doi.org/10.1016/j.cretres.2011.04.006)

- (217) 2011 Gertsch, B., **Keller, G.**, Adatte, T., Garg, R., Prasad V., Berner, Z., Fleitmann, D., 2011. Environmental effects of Deccan volcanism across the Cretaceous-Tertiary boundary transition in Meghalaya, India. *EPSL* 310, 272-285.
- (218) 2011 **Keller, G.** Bhowmick, P.K., Upadhyay, H., Dave, A., Reddy, A.N., Jaiprakash, B.C., Adatte, T., 2011. Deccan volcanism linked to the Cretaceous-Tertiary Boundary (KTB) mass extinction: New evidence from ONGC wells in the Krishna-Godavari Basin, India. *J. Geol. Soc. India*, vol. 78, pp. 399- 428. [0016-7622/2011-78-5-399/\\$ 1.00 © GEOL. SOC. INDIA](#). Pdf available from Gerta Keller.
- (219) 2011 **Keller, G.**, 2011, The KT Mass Extinction: Theories and Controversies. In: Keller, G. and Adatte, T. (Eds.) *The KT Mass Extinction and the Chicxulub Impact in Texas*. SEPM Special Publication 100, 7-22.
- (220) 2011 **Keller, G.**, 2011, Defining the K-T boundary: a practical guide and return to first principles. In: Keller, G. and Adatte, T. (Eds.) SEPM Special Publication 100, 23-42.
- (221) 2011 **Keller, G.**, 2011. Cretaceous-Tertiary mass extinction in marginal and open marine environments: Texas, USA, and Tunisia. In: Keller, G. and Adatte, T. (Eds.) SEPM Special Publication 100, 197-226.
- (222) 2011 Adatte, T., **Keller, G.**, Baum, G., 2011, Lithostratigraphy, Sedimentology, Sequence Stratigraphy and the origin of the sandstone complex in the Brazos River KT Sequences. In: Keller, G. and Adatte, T. (Eds.) SEPM Special Publication 100, 43-80.
- (223) 2011 **Keller, G.**, Abramovich, S., Adatte, T., Berner, Z., 2011, Biostratigraphy, Age of the Chicxulub Impact and Depositional Environment of the Brazos River KT sequences. In: Keller, G. and Adatte, T. (Eds.) SEPM Special Publication 100, 81-122.
- (224) 2011 Abramovich, S., **Keller, G.**, Berner, Z., Cymbalista, M., Rak, C., 2011. Maastrichtian planktic Foraminiferal Biostratigraphy and Paleoenvironment of Brazos River, Falls County, Texas. In: Keller, G. and Adatte, T. (Eds.) SEPM Special Publication 100, p. 123-156.
- (225) 2011 Gertsch, B., **Keller, G.**, Berner, Z., Adatte, T., Platinum Group Elements (PGE) Geochemistry of Brazos sections, Texas. In: Keller, G. and Adatte, T. (Eds.) SEPM Special Publication 100, 227-250.
- (226) 2011 Gertsch, B., Adatte, T., Berner, Z., **Keller, G.**, 2011, Bartels, D., Trace Element Geochemistry of Brazos Sections. Texas. In: Keller, G. and Adatte, T. (Eds.) SEPM Special Publication 100, 251-280.
- (227) 2011 Pardo, A., **Keller, G.**, Adatte, T., 2011. De México a India: en busca de las causas

- del ocaso de los dinosaurios. (p. 149-161) Enseñanza de las Ciencias de la Tierra, 2011 (19.2) – 149, ISSN: 1132-9157
- (228) 2011 **Keller, G.**, 2011. Chicxulub and the KTB mass extinction: myth and reality. In: Lopez-Oliva (ed), *Epistolas Geologicas*, Universidad Autonoma de Neuvo Leon, p. 127-166.
- (229) 2012 **Keller, G.**, 2012. The Cretaceous-Tertiary Mass Extinction, Chicxulub Impact and Deccan Volcanism. In: Talent, J. (ed.), *Earth and Life, Extinction intervals and Biogeographic Perturbations through Time*. Springer Science and Media, Dordrecht, p. 759-793.
- (230) 2012 **Keller, G.**, Adatte, T., Bhowmick, P.K., Upadhyay, H., Dave, A., Reddy, A.N., Jaiprakash, B.C., 2012. Nature and timing of extinctions in Cretaceous-Tertiary planktic foraminifera preserved in Deccan intertrappean sediments of the Krishna-Godavari Basin, India. *EPSL* 341-344, 211-221.
doi.org/10.1016/j.epsl.2012.021
- (231) 2012 **Keller, G.**, Armstrong, H.A., Courtillot, V., Harper, D.A.T., Joachimsky, M., Kerr, A., MacLeod, N., Napier, W., Palfy, J., Wignall, P. 2012. Volcanism, impacts and mass extinctions: causes and effects. *Geoscientist* Nov. 2012, v.22(10), 10-15.
- (232) 2012 **Keller, G.**, Armstrong, H.A., Courtillot, V., Harper, D.A.T., Joachimsky, M., Kerr, A., MacLeod, N., Napier, W., Palfy, J., Wignall, P. 2012. Volcanism, impacts and mass extinctions: causes and effects. *Geoscientist* Nov. online version.
[http://www.geolsoc.org.uk/en/Geoscientist/November 2012/Vol](http://www.geolsoc.org.uk/en/Geoscientist/November%202012/Vol)
- (233) 2013 **Keller, G.**, 2013. Micropaleontology in Multi-disciplinary research: Applications to OAE2 and KTB, *in* Malarkodi, N., Keller, G., Reddy A.N., Jaiprakash, B.C. (eds.), *Ecology, Biodiversity and Global Bioevents*, Geological Society of India, Special Publication , Springer Verlag, v.1, p. 1-23.
- (234) 2013 **Keller, G.**, Khozyem, H., Saravanan, N., Adatte, T., Bajpai, S., Spangenberg, J., 2013. Biostratigraphy and foraminiferal paleoecology of the Early Eocene Naredi Formation, SW Kutch, India. *in* Malarkodi, N., Keller, G., Reddy A.N., Jaiprakash, B.C. (eds.), *Ecology, Biodiversity and Global Bioevents*, Geological Society of India, Special Publication, Springer Verlag, v. 1, p. 183-196.
- (235) 2013 Adatte, T. and **Keller, G.**, 2013. Multiproxy evidence of main Deccan Traps Pulse near the Cretaceous-Tertiary boundary. *in* Malarkodi, N., Keller, G., Reddy A.N., Jaiprakash, B.C. (eds.), *Ecology, Biodiversity and Global Bioevents*, Geological Society of India, Special Publication, Springer Verlag, v.1, p.243-259.
- (236) 2013 Khozyem, H., Adatte, T., **Keller, G.**, Spangenberg, J., Saravanan, N. and Bajpai, S., 2013. Paleoclimate and Paleoenvironment of the Naredi Formation (Early Eocene), Kutch, Gujarat, India, *in* Malarkodi, N., Keller, G., Reddy A.N., Jaiprakash, B.C. (eds.),

Ecology, Biodiversity and Global Bioevents, Geological Society of India, Special Publication, Springer Verlag, v. 1, p. 165-182.

- (237) 2013 Khozyem, H., Adatte, T., Spangenberg, J.E., Tantawy, A.A., Keller, G., 2013. Paleoenvironmental and climatic changes during the Paleocene-Eocene Thermal Maximum (PETM) at the Wadi Nukhul Section, Sinai, Egypt. *Journal of the Geological Society* 2013, v.170; p341-352. doi: 10.1144/jgs2012-046
- (238) 2013 Gertsch, B., **Keller, G.**, Adatte, T., Berner, Z., 2013. The Cretaceous- Tertiary boundary (KTB) transition in NE Brazil. *J. Geol. Soc. London*, v, 170, 249-262.
- (239) 2013 **Keller, G.**, Malarkodi, N., Khozeym, H., Adatte, T., Spangenberg, J.E. and Stinnesbeck, W. 2013. Chicxulub impact spherules in the NW Atlantic and Caribbean: Age constraints and KTB Hiatus. *Geol. Magazine*, v. 150(5), p. 885-907. doi: 10.1017/S0016756812001069
- (240) 2014 Eric Font, Sébastien Fabre, Anne Nédélec, Thierry Adatte, **Gerta Keller**, Christina Veiga-Pires, Jorge Ponte, José Mirão, Hassan Khozyem, and Jorge E. Spangenberg, 2014. Atmospheric halogen and acid rains during the main phase of Deccan eruptions: Magnetic and mineral evidence *Geological Society of America Special Papers*, 505, p. SPE505-18, 2014, doi:10.1130/2014.2505(18).
- (241) 2014 Punekar, J., **Keller, G.**, Khozyem, H., Hamming, C., Adatte, T., Tantawy, A.A., Spangenberg, J.E., 2014. Late Maastrichtian-early Danian high-stress environment and delayed recovery linked to Deccan volcanism. *Cretaceous Research* 49, 1-20.
- (242) 2014 Punekar, J., Mateo, P., **Keller, G.**, 2014. Effects of Deccan volcanism on the paleoenvironment and planktic Foraminifera: A global Survey, *in* Keller, G., Kerr, A. (eds.), *Volcanism, Impacts and Mass Extinctions: Causes and Effects*, Geological Society of America Special Paper 505, doi:10.1130/2014.2505(04).
- (243) 2014 **Keller, G.**, 2014, Deccan volcanism, the Chicxulub impact and the end-Cretaceous mass extinction: Coincidence? Cause and Effect? *In* Keller, G., Kerr, A. (eds.), *Volcanism, Impacts and Mass Extinctions: Causes and Effects*, Geological Society of America Special Paper 505; doi:10.1130/2014.2505(03).
- (244) 2014 Khozyem, H., Adatte, T., **Keller, G.**, Tantawy, A.A., Spangenberg, J.E., 2014. The Paleocene-Eocene GSSP at Dababiya, Egypt - Revisited. *Episodes* 37(2); 78-86.
- (245) 2014 Schoene, B., Samperton, K.M., Eddy, M., Keller, G., Adatte, T., Bowring, A., Khadri, S.F.R., Gertsch, B., 2015. U-Pb geochronology of the Deccan Traps and relation to the end-Cretaceous mass extinction. *Science Express* online Dec. 11, 2014. www.sciencemag.org Dec. 11, 2014
- (246) 2015 Schoene, B., Samperton, K.M., Eddy, M., **Keller, G.**, Adatte, T., Bowring, A., Khadri, S.F.R., Gertsch, B., 2015. U-Pb geochronology of the Deccan Traps And relation to the end-Cretaceous mass extinction. *Science*, v. 347 (issue 96218); 182-184. www.sciencemag.org Jan. 8, 2015

- (247) 2015 Khozyem, H., Adatte, T., Spangenberg, J.E., **Keller, G.**, Tantawy, A.A., Ulianov, A., 2015. New geochemical constraints on the Paleocene-Eocene Thermal Maximum: Dababiya GSSP, Egypt. *Paleogeogr. Paleoclimatol., Paleoecol.*, 429 (2015) 117-135. doi.org/10.1016/j.palaeo.2015.04.003
- (248) 2016 Punekar, J., **Keller, G.**, Khozyem, H., Adatte, T., Font, E., Spangenberg, J.E., 2016. A multi-proxy approach to decode the end-Cretaceous mass extinction. *Paleogeogr. Paleoclimatol., Paleoecol.*, 441 (2016), 116-136. dx.doi.org/10.1016/j.palaeo.2015.08.025
- (249) 2016 Mateo, P., **Keller, G.**, Adatte, T., Spangenberg, J.E., 2016. Mass wasting during the Cretaceous-Paleogene transition in the North Atlantic: Relationship to the Chicxulub impact? *Paleogeogr. Paleoclimatol., Paleoecol.*, 441 (2016), 96-115. dx.doi.org/10.1016/j.palaeo.2015.01.019
- (250) 2016 **Keller, G.**, Punekar, J., Mateo, P., 2016, Upheavals during the late Maastrichtian: volcanism, climate and faunal events preceding the end-Cretaceous mass extinction. *Paleogeogr. Paleoclimatol., Paleoecol.*, 441 (2016), 137-151. <http://dx.doi.org/10.1016/j.palaeo.2015.01.019>
- (251) 2016 **Keller, G.**, Jaiprakash, B.C., Reddy A.N., 2016. Maastrichtian to Eocene subsurface Stratigraphy of the Cauvery Basin and correlation with Madagascar. *J. Geological Society of India*, 87, 5-34. 0016-7622/2016-87-1-5/\$ 1.00 © GEOL. SOC. INDIA Full-text (PDF) Available from: Gerta Keller
- (252) 2016 Bermudez, H. D., Garcia, J., Stinnesbeck, W., **Keller, G.**, Rodriguez, J.V., Hanel, M., Hopp, J., Schwarz, W.H., Trieloff, M., Bolivar, L. Vega F.J., 2016. The Cretaceous-Paleogene boundary at Gorgonilla Island, Colombia, South America, *Terra Nova*, 28: 83-90, 2016. [Doi: 10.1111/ter.12196](https://doi.org/10.1111/ter.12196)
- (253) 2016 Eric Font, Thierry Adatte, Alcides Sial, Luis Drude de Lacerda, Gerta Keller and Jahnavi Punekar, Mercury anomaly, Deccan Volcanism and the end-Cretaceous Mass Extinction, *Geology*. [doi:10.1130/G37451.1](https://doi.org/10.1130/G37451.1)
- (254) 2016 Eric Font, Thierry Adatte, Gerta Keller, Alexandra Abrajevitch, Alcides Nobrega Sial, Luiz Drude de Lacerda, and Jahnavi Punekar, 2016. Mercury anomaly, Deccan volcanism and the end-Cretaceous mass extinction: (Reply to Smit et al. 2016). *Geology Forum*, v. 44. [doi:10.1130/G37xxxY.1](https://doi.org/10.1130/G37xxxY.1)
- (255) 2017 Mateo, P., Keller, G., Punekar, J., Spangenberg, E., 2017. Early to late Maastrichtian environmental changes in the Indian Ocean compared with Tethys and South Atlantic. *Paleogeogr. Paleoclimatol., Paleoecol.*, 478, 121-138. <http://dx.doi.org/10.1016/j.palaeo.2017.01.027>
- (256) 2017 Eric Font, Gerta Keller, Thierry Adatte and Diethard Sanders, 2017. Comment on “Post-impact event bed (tsunamite) at the Cretaceous-Paleogene boundary deposited on

a distal carbonate platform interior.” Terra Nova
([http://onlinelibrary.wiley.com/journal/10.1111/\(ISSN\)1365-3121/earlyview](http://onlinelibrary.wiley.com/journal/10.1111/(ISSN)1365-3121/earlyview))

- (257) 2018 Keller, G., Mateo, P., Punekar, J., Khozyem, H., Gertsch, B., Spangenberg, J., Font, E., Bitchong, A., Adatte, T., 2018. Environmental changes across the Cretaceous-Paleogene Mass Extinction and Paleocene-Eocene Thermal Maximum: Implications for the Anthropocene, *Gondwana Research* 56 (2018) 69-89.
<http://authors.elsevier.com/sd/article/S1342937X17303702>
- (258) 2018 Eric Font, Thierry Adatte, Mariana Andrade, Gerta Keller, André Mbabi Bitchong, Claire Carvallo, Joana Ferreira, Zenaida Diogo and José Mirão, 2018. Deccan volcanism induced high-stress environment during the Cretaceous-Paleogene transition at Zumaia, Spain: evidence from magnetic, mineralogical and biostratigraphic records. *Earth and Planetary Science Letters* 484 (2018) 53–66.
<https://doi.org/10.1016/j.epsl.2017.11.055>
- (259) 2018 Paula Mateo, Gerta Keller, Thierry Adatte, Andre M. Bitchong, Jorge E. Spangenberg, Torsten Vennemann, Christopher J. Hollis, Christopher McDonald, Kip Hodges, Matthew Heizler, 2017. Deposition and age of Chicxulub impact spherules on Gorgonilla Island, Colombia, GSA Special Paper, in review
- (260) 2018 Gerta Keller, Thierry Adatte, Paula Mateo, Jahnavi Punekar, Jorge E. Spangenberg, Blair Schoene, Kyle Samperton, Michael P. Eddy, Syed F.R. Khadri, Johannes Monkenbusch, Nicolas Thibault, 2018. Mercury links Deccan Volcanism to climate change and the end-Cretaceous Mass Extinction. *Science*
- (261) 2018 Diethard Sanders, Gerta Keller, Felix Schlagintweit and Martin Studeny, 2018. Cretaceous-Paleocene transition along a rocky carbonate shore and Danian beachrocks on an active orogenic wedge. *Sedimentology*,
- (262) Ulrich Heimhofer, Nina Wucherpfennig, Thierry Adatte, Stefan Schouten, Elke Schneebeli-Hermann, Silvia Gardin, Gerta Keller, Ariane Kujau, 2018. Continental vegetation dynamics during Oceanic Anoxic Event 2.
- (263) Punekar, Jahnavi,
- (264) Keller et al. GSA vol.
- (265) 2018 Hassan Khozyem, Thierry Adatte, Gerta Keller, Jorge E. Spangenberg, Bandana Samant, in prep. Organic Carbon Isotope Records of the Paleocene Eocene Thermal Maximum (PETM) Event in India provide new Insights into Mammal Origination and Migration

BOOKS:

Keller, G., Stinnesbeck, W., Adatte, T., MacLeod, N., and Lowe, D. R., 1994. *Field Guide to Cretaceous-Tertiary boundary sections in Northeastern Mexico*, Lunar and Planetary Institute, LPI Contribution No. 827, 110 p.

MacLeod, N., and **Keller, G.**, 1996. *Cretaceous-Tertiary Mass Extinctions*, (MacLeod, N., and Keller, G., eds.), W. W. Norton & Company, Inc., New York, 575 p.

Keller, G., 2008. Chicxulub: Field Guide to Cretaceous-Tertiary boundary sections in NE Mexico, Il Simposio Geocientifico Internacional, June, 2008. University of Nuevo Leon, Linares, Mexico

Keller, G. and Adatte, T. (eds) 2011. *The KT Mass Extinction and the Chicxulub Impact in Texas. Society of Sedimentary Geology (SEPM) Special Publication 100.*

Malarkodi, N., **Keller, G.**, A. N. Reddy, B.C. Jaiprakash (eds) 2013. *Micropalaeontology and Stratigraphy in India and Global Bioevents in Earth History*. Geol. Soc. India, Special Publication v. 1, 650 p.

Keller, G., Kerr, A., 2014 (Editors) *Volcanism, Impacts and Mass extinctions: Causes and Effects*, Geological Society of America Special Paper 505.

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
- 2012 AGU organized Press Conference (Dec. 15) based on our presentations on India’s Deccan volcanism and the KT mass extinctions.
- 2012 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.
- 2014 GSA sponsored Press Conference (Oct. 2014)
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 really killed the Dinosaurs” based on Keller’s team findings that Chicxulub impact predates the KT mass extinction.
- 2005 TV Interview (& DVD) with Alexander Kluge: “*Der Mega-Einschlag und die Dinosaurier – Gerta Keller ueber das Massensterben vor 65 millionen Jahren*”,
- 2005 Documentary “*Meteors: Fire in the Sky*”
- 2009 History Channel Documentary “First Apocalypse” highlighted Keller et al.s theory that the dinosaur extinction was most likely caused by volcanism. Released Jan. 7, 2009.

ABSTRACTS

ABSTRACTS 2011

2011. Adate, T. and Keller, G., Main Deccan traps pulse close to the Cretaceous-Tertiary Boundary: increasing multiproxy evidence. EGU 2011-2479, SSP1.7/GMPV56
2011. Gerta Keller, Deccan Volcanism and the KT Mass Extinction: A new Perspective on Global Effects of Volcanism. GEO-India 2011, IAPG-AAPG Conf., New Delhi, Jan. 12-14, 2011
2011. Gerta Keller, Thierry Adate, A.N. Reddy, B.C. Jaiprakash, P.K. Bhowmick, H. Upadhyay and A. Dave, New Evidence links Deccan Traps to KTB Mass Extinction and delayed recovery. GSA Annual Meeting, Minneapolis, Oct. 9-12, 2011.
2011. Adate, T. and Keller G., Age of the Chicxulub impact and mass extinction, Brazos river, Texas, USA. GSA Annual Meeting, Minneapolis, Oct. 9-12, 2011.
2011. Gertsch, B., Keller, G., Adate, T., Environmental Effects of Deccan Volcanism across the Cretaceous-Tertiary Transition in Meghalaya, India. . GSA Annual Meeting, Minneapolis, Oct. 9-12, 2011
2011. Punekar, J., Keller, G., Khozeym, H., Adate, T., Delayed recovery after KTB mass extinction linked to terminal phase of Deccan Volcanism. XXXIII Colloquium on Microplaeontology and stratigraphy, Dec. 9-12, Bangalore, India
2011. Keller, G., Deccan Volcanism and the end-Cretaceous Mass Extinction. XXXIII Colloquium on Microplaeontology and stratigraphy, Dec. 9-12, Bangalore, India. Keynote lecture, XXXIII Colloquium on Microplaeontology and stratigraphy, Dec. 9-12, Bangalore, India
2011. Keller Gerta, Micropaleontology and Stratigraphy in multidisciplinary research: Examples from OAE2, KTB and PETM. Presidential Address, XXXIII Colloquium on Microplaeontology and stratigraphy, Dec. 9-12, Bangalore, India
- 2011, Keller, G., From Chicxulub to Deccan: New perspective on the KTB mass extinction. Geological Society of India, Bangalore, Dec. 13.
2011. Khozyem, H., Adate, T., Keller, G., Spangenberg, E.J., Multi-proxy approach to the Paleocene-Eocene event at Dababiya GSSP, Egypt. XXXIII Colloquium on Microplaeontology and stratigraphy, Dec. 9-12, Bangalore, India
2011. Adate, T., Main Deccan traps pulse close to the Cretaceous-Tertiary Boundary: increasing multiproxy evidence. XXXIII Colloquium on Microplaeontology and stratigraphy, Dec. 9-12, Bangalore, India

ABSTRACTS 2012

2012. H. Khozyem et al.

Mammal Dispersion linked to The Paleocene Eocene Thermal Maximum (PETM): New Insights from India. EGU

2012. T. Adatte and G. Keller, New Evidence links Deccan Traps to the Cretaceous-Tertiary Boundary Mass Extinction. Cretaceous Sedimentary Congress, Schladming, Austria.

2012. T. Adatte, Keller, G., and Gertsch, B. The role of Deccan Volcanism during the KT mass extinction. AGU San Francisco, Dec. 2012.

2012. Keller, G., Volcanism, Impacts and mass Extinctions: A case study of the Deccan Traps and its global effects. AGU San Francisco, Dec. 2012.

2012. Khozyem, H. Adatte, T., Keller, G., Spangenberg, J.E., Samant, B., Mohabey, D.M., Bajpai, S., Modern Mammal dispersion linked to the Paleocene-Eocene thermal maximum (PETM) and early Eocene climatic optimum: new insight from India. AGU San Francisco, Dec. 2012.

ABSTRACTS 2013

Keller, G., and Adatte, T., 2013 (keynote), Volcanism, Impacts and Mass Extinctions, , Int. Conference on Volcanism, Impacts and Mass Extinctions: Causes and Effects, London, March 26-29, 2013.

Adatte, T. and Keller, G., 2013 (keynote) Chicxulub impact and the KT breccia from North America to Brazil: Stratigraphy, Age, Nature and Origin, Int. Conference on Volcanism, Impacts and Mass Extinctions: Causes and Effects, London, March 26-29, 2013.

Mateo, P., Keller, G., Khozyem, H.M., Adatte, T., Spangenberg, J. E., Malarkodi, N., 2013. Volcanism, impacts, mass extinction and delayed recovery in the western North Atlantic and Caribbean. Poster, Int. Conference on Volcanism, Impacts and Mass Extinctions: Causes and Effects, London, March 26-29, 2013.

Punekar, J., Keller, G., Mateo, P., 2013. Late Maastrichtian, KTB, and Early Danian global biotic and environmental stress linked to Deccan Volcanism. Poster, Int. Conference on Volcanism, Impacts and Mass Extinctions: Causes and Effects, London, March 26-29, 2013.

Gertsch, B., Keller, G., Adatte, T., 2013. Geochemical proxies (major, trace and platinum group elements) across the KT boundary: What can they tell about the role of impacts and volcanism? Keynote, Int. Conference on Volcanism, Impacts and Mass Extinctions: Causes and Effects, London, March 26-29, 2013.

Keller, G., 2013. *Invited*. Biotic effects of climate change, the Chicxulub impact and Deccan Volcanism during the Maastrichtian. Pre-Cenozoic Climates International workshop, June 17-19, 2013, Toulouse, France.

Keller, G. and Adatte, T., 2013(keynote) Deccan Volcanism, Chicxulub Impact, Climate change, the KTB Mass Extinction and delayed Marine Recovery. In 9th Cretaceous Symposium, Ankara, Turkey, Sept. 1-6, 2013.

Keller, G. and Adatte, T., 2013. End-Cretaceous greenhouse warming & cooling, sea-level changes, biotic stress and Deccan Volcanism. In 9th Cretaceous Symposium, Ankara, Turkey, Sept. 1-6, 2013.

Thierry Adatte, Alicia Fantasia, Bandana Samant, Dhananjay Mohabey, Gerta Keller, Hassan Khozyem & Brian Gertsch 2013. (keynote) Multiproxy evidence of main Deccan Volcanic Pulse near the Cretaceous-Tertiary boundary, in 9th Cretaceous Symposium, Ankara, Turkey, Sept. 1-6, 2013.

Mateo, P., Keller, G., Adatte, T., and Khozyem, H.M., 2013. Nature and cause of delayed marine recovery after the end-Cretaceous mass extinction: Case study of ODP Sites 1049-1050, Western North Atlantic. in 9th Cretaceous Symposium, Ankara, Turkey, Sept. 1-6, 2013.

Punekar, J., Keller, G., Mateo, P., 2013. Environmental stress linked to Deccan Volcanism, mass extinction and delayed recovery, in 9th Cretaceous Symposium, Ankara, Turkey, Sept. 1-6, 2013.

ABSTRACTS 2014

Keller, G., 2014. Deccan Volcanism, Chicxulub impact and the KTB Mass Extinction: Coincidence? Cause and Effect? Pardee Symposium, GSA Annual Meeting, Vancouver Oct. (Abstract #242505).

Keller, G., Adatte, T., 2014. Age of Chicxulub impact and potential role in Deccan volcanism and end-Cretaceous mass extinction. GSA Annual Meeting, Vancouver Oct. (Abstract #244245).

Adatte, T., 2014. Deccan volcanism: a main trigger of environmental changes leading to the KTB mass extinction? GSA Annual Meeting, Vancouver Oct. 2014, Abstract #243652.

Adatte, T. Keller, G., 2014. Multiproxy evidence of main Deccan volcanic pulse near the Cretaceous-Tertiary boundary. GSA Annual Meeting, Vancouver Oct. 2014, Abstract #243062.

Mateo, P., Keller, G., Adatte, T., Spangenberg, J., 2014. Mass wasting during the Cretaceous-Tertiary transition in the North Atlantic: Relationship to the Chicxulub impact? GSA Annual Meeting, Vancouver Oct. (Abstract # 243638).

Punekar, J., Keller, G., Adatte, T., Font, E., Spangenberg, J., 2014. Multi-proxy approach to decode the end-Cretaceous mass extinction. GSA Annual Meeting, Vancouver Oct. 2014, Abstract #243652.

Fantasia, A., Adatte, T., Samant, B., Keller, G., Gertsch, B., 2014. Multiproxy Evidence of main Deccan Volcanic pulse near the Cretaceous-Tertiary boundary. GSA Annual Meeting, Vancouver, Oct. 2014.

ABSTRACTS 2015

Thierry Adatte, Gerta Keller, Blair Schoene, Syed Khadri, 2015. Timing, tempo and paleoenvironmental influence of Deccan volcanism relative to the KT extinction. EGU Annual Meeting, Vienna, April 2015, [EGU2015-5372](#)

Gerta Keller, Jahnavi Punekar, Paula Mateo, Thierry Adatte, Jorge Spangenberg, 2015. Deccan Volcanism, Chicxulub Impact, Climate Change and the end-Cretaceous Mass Extinction. EGU Annual Meeting, Vienna, April 2015, [EGU2015-6774](#)

Blair Schoene, Kyle M. Samperton, Michael P. Eddy, Gerta Keller, Thierry Adatte, Samuel A. Bowring, Syed F.R. Khadri, and Brian Gertsch, 2015. U-Pb geochronology of the Deccan Traps and relation to the end-Cretaceous mass extinction. EGU Annual Meeting, Vienna, April 2015 [EGU2015-8455](#)

Jahnavi Punekar, Gerta Keller, Hassan Khozyem, Thierry Adatte, Eric Font, & Jorge Spangenberg, 2015. A multi-proxy approach to decode the end-Cretaceous mass extinction. EGU Annual Meeting, Vienna, April 2015, [EGU2015-3873](#)

Paula Mateo, Gerta Keller, Thierry Adatte, and Jorge Spangenberg, 2015. Mass Wasting during the Cretaceous/Tertiary Transition in the North Atlantic: Relationship to the Chicxulub Impact? EGU Annual Meeting, Vienna, April 2015, [EGU2015-1976](#)

Alicia Fantasia, Thierry Adatte, Jorge E. Spangenberg, Eric Font, Bandana Samant, Dhananjay Mohabey, Deepali Thakre, and Gerta Keller, 2015. Paleoenvironmental and paleoclimatic changes associated with the Deccan Volcanism, examples from terrestrial deposits from Central India EGU Annual Meeting, Vienna, April 2015, [EGU2015-5161](#)

Mateo, Paula, Keller, Gerta and Punekar, Jahnavi, 2015. Early to late Maastrichtian environmental changes linked to Deccan Traps and Ninetyeast Ridge Volcanism: Case study of the Indian Ocean. Ref: Abstract No: 262652. GSA Annual Meeting, Baltimore 2015.

Jahnavi Punekar, Gerta Keller, Alicia Fantasia, Paula Mateo, Jorge Spangenberg and Thierry Adatte, 2015. Fine-tuning Late Maastrichtian Faunal upheavals, climatic events and major volcanic episodes. Ref: Abstract No: 262776. GSA Annual Meeting, Baltimore 2015.

Gerta Keller, Jahnavi Punekar, Paula Mateo, Thierry Adatte, Eric Font, Jorge Spangenberg, 2015. The last 250 kyr before the end-Cretaceous Mass Extinction. Ref: Abstract No: 262691. GSA Annual Meeting, Baltimore 2015.

Adatte, Thierry, Keller, Gerta, Schoene, Blair, Samperton, Kyle M., Font, Eric, Sial, Alcides N., De Lacerada, Luiz Drude, Punekar, Jahnavi, Fantasia, Alicia and Khadri, Syed, 2015. Paleoenvironmental influence of Deccan volcanism relative to the KT extinction. Ref: Abstract No: 265331. GSA Annual Meeting, Baltimore 2015.

Hermann D. Bermúdez, Gerta Keller, Wolfgang Stinnesbeck, Jenny García, Mario Trieloff, José Vicente Rodríguez, Liliana Bolívar, Maria Paula Mateo, and Thierry Adatte, 2015. Discovery of a pristine Chicxulub impact glass spherule deposit on Gorgonilla Island, Colombia, in the Eastern Pacific Ocean. Ref: Abstract No: 261829. GSA Annual Meeting, Baltimore 2015.

ABSTRACTS 2016

Mateo, Paula, Keller, Gerta, Adatte, Thierry, Bitchong Andre, Spangenberg, Jorge, Vennemann, Torsten, Heizler, Matthew, Hodges, Kip, McDonald, Christopher, Hollis Chris, Stinnesbeck, Wolfgang. [AGE, BIOSTRATIGRAPHY, GEOCHEMISTRY AND MINERALOGY OF CHICXULUB IMPACT SPHERULES ON GORGONILLA ISLAND, COLOMBIA](#) Abstract No: 282848. GSA Annual Meeting, Denver, 2016.

McDonald, C.S., Heizler, M., Hodges, Kip, Keller, Gerta, Adatte, Thierry, 2016. [⁴⁰AR/³⁹AR DATING OF CHICXULUB IMPACT SPHERULES FROM ISLA GORGONILLA, COLOMBIA](#) Abstract No: 286177. GSA Annual Meeting, Denver, 2016.

Punekar, Jahnavi. Keller, Gerta, Thierry Adatte, Eric Font, 2016. [SPATIAL AND TEMPORAL CONSTRAINTS ON THE END-MAASTRICHTIAN OCEAN ACIDIFICATION RELATED TO DECCAN VOLCANISM](#) Abstract No: 283735. GSA Annual Meeting, Denver, 2016

Keller, Gerta, Adatte, Thierry, Punekar, Jahnavi, Mateo, Paula, Spangenberg, Jorge, Schoene, Blair, Samperton, Kyle, Khadri, Syed F.R., 2016. [ACCELERATING DECCAN ERUPTIONS AND RUNAWAY CLIMATE CHANGE](#) Abstract No: 283710. GSA Annual Meeting, Denver, 2016

Adatte, Thierry, Font, Eric, Mbabi Bichtong, Andre, Keller, Gerta, Schoene, Blair, Samperton, Kyle, Khadri, Syed F.R., 2016. [TIMING AND TEMPO OF DECCAN VOLCANISM REVEALED BY MERCURY ANOMALIES](#) Abstract No: 285123. GSA Annual Meeting, Denver, 2016

Khozyem, Hassan, Adatte, Thierry, Mbabi Bitchong, Andre, Chevalier, Yoann, Keller, Gerta, 2016. [PALEOCENE-EOCENE THERMAL MAXIMUM TRIGGERED BY VOLCANISM? EVIDENCE FROM MERCURY ANOMALIES](#) Abstract No: 283712. GSA Annual Meeting, Denver, 2016

Valentin Sordet, Thierry Adatte, Gerta Keller, Blair Schoene, Kyle Samperton, and Syed Khadri, [TIMING, TEMPO AND PALEOENVIRONMENTAL IMPLICATIONS OF DECCAN VOLCANISM RELATIVE TO THE KTB EXTINCTION : EVIDENCES FROM THE RED BOLE RECORD](#) Abstract No: 284642. GSA Annual Meeting, Denver, 2016

Keller, Gerta [BIOSTRATIGRAPHY AND IMPACT STRATIGRAPHY](#) Abstract No: 283457. GSA Annual Meeting, Denver, 2016

ABSTRACTS 2017

Thierry Adate, Eric Font, Andre Mbabi Bitchong, Gerta Keller, Blair Schoene, Kyle Samperton, Syed Khadri. [TIMING AND TEMPO OF DECCAN VOLCANISM: EVIDENCE FROM MERCURY ANOMALIES](#). Geophysical Research Abstracts, vol. 10, EGU2017-7709, 2017.

Sharma Nikhil, Sordet Valentin, Adate Thierry, Keller Gerta, Font Eric, Schoene Blair, Samperton Kyle, and Khadri Syed, 2017. [ENVIRONMENTAL CHANGES ASSOCIATED WITH DECCAN VOLCANISM: EVIDENCES FROM THE RED BOLE RECORD](#). Geophysical Research Abstracts, vol. 10, EGU2017-7705, 2017.

Eric Font, Thierry Adate, Mariane Andrade, Gerta Keller, Andre Mbabi Bitchong, Claire Carvalho, Joanna Ferreira, Zenida Diogo, Jose Mirao, 2017. [DECIPHERING THE MAGNETIC AND MINERALOGICAL RECORD OF THE DECCAN TRAPS AT THE CRETACEOUS-PALEOGENE BOUNDARY OF THE ZUMAIA SECTION, BASQUE-CANTABRIC BASIN, SPAIN](#). EGU2017-9160.

Ulrich Heimhofer, Nina Wucherpennig, Thierry Adate, Stefan Schouten, Elke Schneebeli-Hermann, Silvia Gardin, Gerta Keller, Ariane Kuja, [CONTINENTAL VEGETATION AND CLIMATE DYNAMICS DURING OCEANIC ANOXIC EVENT 2](#). Cretaceous Symposium 2017, Vienna.

Hassan Khozyem, Thierry Adate, Andre Bitchong, Mohamed Abdallah, Gerta Keller, [THE ROLE OF VOLCANISM \(NORTH ATLANTIC IGNEOUS PROVINCE\) IN THE PETM EVENTS REVEALED BY MERCURY ANOMALIES](#). GSA Annual Meeting, Seattle Washington, Abstract #302893.

Adate, Thierry, Keller, Gerta, Font, Eric, Bitchong Mbabi Andre, Schoene, Blair, Samperton, Kyle, Eddy, Michael, [NEAR CONCIDENCE OF MAXIMUM DECCAN VOLCANISM WITH THE CRETACEOUS-PALEOGENE BOUNDARY REVEALED BY MERCURY ANALYSIS](#). GSA Annual Meeting, Seattle Washington, Abstract #302876.

Mateo, Paula, Keller, Gerta, Tandy, Hannah, Adate, Thierry, Khozyem, Hassan, [DELAYED FAUNAL RECOVERY IN THE AFTERMATH OF THE END-CRETACEOUS MASS EXTINCTION: LINKS TO DECCAN VOLCANISM AND DAN-C2 WARMING?](#) GSA Annual Meeting, Seattle Washington, Abstract #303185.

Punekar, Jahnavi, Keller, Gerta, Adate, Thierry, Font, Eric, Spangenberg, Jorge. [HIGHLIGHTS OF THE LATEST MAASTRICHTIAN GRAND FINALE IN THE WESTERN TETHYS](#). GSA Annual Meeting, Seattle Washington, Abstract #305 .

Keller, Gerta, Adate, Thierry, Spangenberg, Jorge, Mateo, Paula, Punekar, Jahnavi, Schoene, Blair, Samperton, Kyle, Eddy, Michael, [MERCURY STRATIGRAPHY OF DECCAN TRAP VOLCANISM IN MARINE SEDIMENTS LINKED TO CLIMATE CHANGE, BIOTIC TURNOVER, END-CRETACEOUS MASS EXTINCTION AND DELAYED RECOVERY](#). GSA Annual Meeting, Seattle Washington, Abstract #303559.

Blair Schoene, Kyle, M. Samperton, Eddy P. Michael, Gerta Keller, Thierry Adate, Syed Khadri, [TOWARD A HIGH-RESOLUTION AGE MODEL FOR THE DECCAN TRAPS BY U-PB ZIRCON GEOCHRONOLOGY](#). GSA Annual Meeting, Seattle Washington, Abstract #305419.

Hannah, Tandy, Elena Shevliakova, Gerta Keller. 2017, [Evaluating Carbon and Climate Sensitivities of the NOAA/GFDL Earth System Model ESM2Mb to Forcing Perturbations during the Paleocene-Eocene Thermal Maximum](#), AGU 2017, New Orleans