

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)

Email: gkeller@princeton.edu

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

1968 - 1970, City College of San Francisco

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- present, Professor of Geology and Paleontology, Department of Geosciences, Princeton University.

AWARDS, FELLOWSHIPS and DISTINGUISHED LECTURES

2020 - Distinguished lecture: Shaw Prize, Shaw Institute, Blue Hill, Maine, postponed to 2020 due to family emergency

2020 - Distinguished lecture: Colleges 1942 Class Speaker Series, Bridgewater State University, Massachusetts, Dinosaur Wars: Extinction by Asteroid or Volcanism – Are we the next Dinosaurs?

2019 Oc - Distinguished lecture: Moore lecture, University of Virginia, Charlottesville: Dinosaur Wars: Extinction by Asteroid or Volcanism – Are we the next Dinosaurs?

2019 Sept. – Invited lecture: Great Controversies in Sciences, GSA Phoenix: Dinosaur Wars: The Nastiest Controversy 1980-2020...

- 2019 July - Distinguished lecture: Hugh Morris Lecture, University of Victoria, Ca: Dinosaur Wars: Extinction by Asteroid or Volcanism – Are we the next Dinosaurs?
- 2019 March – Distinguished lecture: Thomas G. Bullen, Memorial Lecture Series in Science and Technology, Iona College NY: Dinosaur Wars: Extinction by Asteroid or Volcanism.
- 2019 Feb. – Invited lecture, Florida State University, Tallahassee: Paroxysmal Deccan Eruptions, Climate change and the End-Cretaceous Mass Extinction
- 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

Princeton Representative of DOSECC (Drilling Observation and Sampling of Earth's Continental Crust)

MAJOR INVITED PRESENTATIONS AT OTHER ACADEMIC INSTITUTIONS AND SCIENTIFIC MEETINGS 2000-2019.

- 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: Colloquium lecture (Feb), Florida State University,
 EGU Annual Meeting, Vienna, Lecture
 GSA Annual Meeting, Seattle, Lecture, Co-organizer of special sessions
- 2018: EGU Annual Meeting, Vienna, Lecture
 Colloquium lecture, (Feb), Florida State University
 Colloquium lecture, India Institute of Technology, Bombay, India
- 2019: Colloquium lecture, Florida State University (Feb.)
 Colloquium lecture, Iona College (April)
 EGU, Vienna, (April)
 GSA Phoenix, invited lecture

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)
- 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.
- 2015 GSA Annual Meeting and Press Conference (Oct. 2015), Co-organizer of Topical Session on Volcanism and Impacts.
- 2016 EGU (European Geophysical Union, Annual Meeting, Vienna) Co-organizer of Topical Session on Mass extinctions and LIPs volcanism
- 2016 GSA Annual Meeting, Co-organizer of Topical Session on Mass extinctions and Large Igneous Province volcanism
- 2017 GSA Annual Meeting, Co-organizer of Topical Session on Volcanism, Impacts and Environmental consequences
- 2018 EGU (European Geophysical Union, Annual Meeting, Vienna) Co-organizer of Topical Session on progress in Mass extinctions and LIPs volcanism, EGU organized Press Conference
- 2019 GSA Annual Meeting, Co-organizer of Topical Session (Phoenix, Arizona): Volcanism, Impacts and Phanerozoic Mass Extinctions: Discovering a common cause and planning for the 6th Mass Extinction.

DOCUMENTARIES and SCRIPTED FILMS:

2004 BBC HORIZON Documentary “What really killed the Dinosaurs” based on Keller’s team findings that Chicxulub impact predates the KT mass extinction.

<https://www.dailymotion.com/video/x22682z>

2005 History Channel documentary *Meteors: Fire in the Sky*.

<https://www.youtube.com/watch?v=HoM7SHlgsPs>

2005 TV Interview with Alexander Kluge, *Der Mega-Einschlag und die Dinosaurier – Gerta Keller ueber das Massensterben vor 65 millionen Jahren*. (Alexander Kluge is a German icon, celebrated social critic, major fiction writer, and filmmaker. He has received numerous literary, TV, and film awards. I was honored when he visited Princeton in 2005 to interview me about the Dinosaur mass extinction.)

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.

<https://www.youtube.com/watch?v=LReuI0WtHcs>

ABC News, May 24, 2009. Moises Velasquez-Manoff's "Did Asteroids Really Do in the Dinosaurs?: Scientists Challenge the Story of How the Dinosaurs' 160-Million-Year Reign Came to an End."

2019-2020: In progress, documentary on Volcanism and mass Extinctions.

2020: In progress, scripted film: "Dinosaur Wars: The Gerta Keller Story"

PRINT AND WEB MEDIA

I have been the subject of numerous media articles, perhaps most notably:

- Bianca Bosker, "[The Nastiest Feud in Science](#)" *The Atlantic* (2018).
- *BBC Science Focus*, interviewed by Andy Ridgway (2019).
<https://www.sciencefocus.com/planet-earth/mass-extinction-can-we-stop-it/>
- Julia Rosen's "Down to Earth with: Paleontologist Gerta Keller" in *EARTH* magazine (2017). <https://www.earthmagazine.org/article/down-earth-paleontologist-gerta-keller>
- Richard Stone's "Back from the Dead" in *Science* (Issue 346, 2014).
<https://science.sciencemag.org/content/346/6215/1281>
- Diane E. Banegas, National Science Foundation (NSF) Discovery: Volcanos, Not Asteroid may have taken out the Dinosaurs: New theory on the Dinosaur's demise looks to India. nsf.gov - National Science Foundation (NSF) Discoveries - Vol...
- Donna Gialanella, Digging for Answers: Paleontologist won't back down on theory of dinosaur extinction. The Star-Ledger, New Jersey, Jan. 27, 2008. Gerta Keller – nj.com
- Andrea Thompson, Dinosaur Killer may have been killed by Volcanism, Not Asteroid, Yahoo News, 12.15.2008. [LiveScience.com](#)
- Richard Lovett's "'Dinosaur Killer' Asteroid Only One Part of New Quadruple-Whammy Theory" in *National Geographic* (2006). NSF Discovery, 12.8.2008.
- Chris Hedges's "PUBLIC LIVES: Where Dinosaurs Roamed, She Throws Stones" in the *New York Times* (2003). <https://www.nytimes.com/2003/12/17/nyregion/public-lives-where-dinosaurs-roamed-she-throws-stones.html>
- Rex Dalton's "Hot Tempers, Hard Core" in *Nature* (2003). It should be noted that the articles Rex published on my work in 2003 and 2004 publicized the impact controversy and contributed to one of my most important talks going viral. He continues to keep in touch.

OUTREACH ACTIVITY and PUBLICITY

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 a multitude 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 1984-2019

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

Post-Doctoral Fellows

- Norman MacLeod, 1989-1993, currently NHM London
Nieves Ortiz, 1993-1995
Concha Gonzalez, 1995, Univ. Zaragoza, Spain

Gangyi Lu, 1996-1997, Financial analyst, UBS, NY
Liangquan Li, 1997-1998, Financial analyst, Citi Bank, NY
Abdel Tantawy, 2004, South Valley University, Egypt
Ahmed El Sabbagh, 2009 Rhode Scholar, Univ. Alexandria, Egypt
Nallamuthu Malarkodi, Univ. of Bangalore, India
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

Udit Basu, 2019-2020. Environmental Effects of Deccan Volcanism During the Late Cretaceous

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, 2014-2016. The last 100,000 years of the Cretaceous

Hannah Tandy, 2016-2017. Climatic and Faunal Changes Associated with Deccan Volcanism

Liam O'Connor, 2018- 2019. Chronology of Deccan Volcanism in an Israeli marine K-Pg boundary section.

Kiley Coates, 2018-2019. Mercury's use as an indicator of Deccan Volcanism during the Late Cretaceous

Casey Conrad, 2019-2020, Mercury analysis of the Maastrichtian to Danian Rancho Canales section in NE Mexico

Recent Summer Interns:

2017: Hannah Tandy, Developing a climate model for the Paleocene-Eocene Thermal Maximum (shared with GFDL)

- 2017: Ayame Whitfield, Evaluating high-stress conditions preceding the KT mass extinction
- 2018: Liam O'Conner, Mercury analysis as proxy for Deccan Volcanism
- 2018: Renee Delamater-Droungas, Mercury as proxy for Deccan Volcanism
- 2019: Casey Conrad, Mercury analysis of KT sections in Mexico
- 2019: Udit Basu, Mercury analysis of KT sections in Mexico and Israel

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.

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