

# STEPHEN F. PEKAR

## Curriculum Vitae

**Address:** Queens College  
School of Earth and Environmental Sciences  
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**E-mail:** [spekar@qc1.qc.edu](mailto:spekar@qc1.qc.edu)

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**Address:** Lamont-Doherty Earth  
Observatory of Columbia  
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**Birth date:** January 28, 1959

### PROFESSIONAL EXPERIENCE

- 9/03            **Assistant Professor**  
present        **School of Earth and Environmental Sciences Queens College, Flushing, NY**
- 9/03            **Adjunct Associate Research Scientist**  
present        **Lamont-Doherty Earth Observatory of Columbia University, Palisades, NY**
- 5/00-8/03      **Post-Doctoral Research Scientist**  
                  **Lamont-Doherty Earth Observatory of Columbia University, Palisades, NY**
- 5/00-7/00      **Sedimentologist and stratigrapher: Onsite Scientist**  
                  **ODP Leg 174AX: Bethany Beach Borehole, Bethany Beach, Delaware**
- 3/00-5/00      **Sedimentologist: Shipboard Scientist**  
                  **ODP Leg 189: The Tasmanian Seaway between Australia and Antarctica**
- 6/99-3/00      **Post-Doctoral Research Scientist**  
                  **Rutgers, the State University of New Jersey, New Brunswick, NJ**
- 9/99-10/99     **Staff Scientist**  
                  **ODP Leg 174AX: Ocean View Borehole, Ocean View, New Jersey**
- 4/99-6/99      **Petroleum Consultant**  
                  **Chevron Overseas Petroleum Inc., San Ramon, CA**  
                  **Miocene Foraminiferal Biofacies and Sequences from Offshore Cabinda, Angola**  
                  Performed benthic foraminiferal biofacies, biostratigraphic, and lithofacies analysis for 160+ samples from slope cuttings and sidewall cores.  
                  Prepared a written report for Chevron Overseas Petroleum Inc.

- 1/98-3/98     **Petroleum Consultant**  
**Chevron Overseas Petroleum Inc., San Ramon, CA**  
**Developing an Integrated Sequence/Seismic Stratigraphic Framework For the West African Tertiary, Using Benthic Foraminiferal Biofacies and Sr-isotopic Chemostratigraphy**  
Performed benthic foraminiferal biofacies, bio-, Sr chemo-, and litho-stratigraphic analysis for 120+ samples from slope cuttings and sidewall cores.  
Prepared a written report for Chevron Overseas Petroleum Inc.
- 1/97-6/97     **Research Assistant**  
Rutgers, the State University of New Jersey, New Brunswick, NJ
- 11/96-3/97    **Petroleum Consultant**  
**Chevron Overseas Petroleum Inc., San Ramon, CA**  
**Sr-Isotopic Chemostratigraphy: Development of a High-Resolution Chronostratigraphic Tool for the Pinda Formation**  
Water-rock interaction models were constructed to determine original Sr-isotope ratios.  
Demonstrated that Sr-isotope chemostratigraphy can be a useful chronostratigraphic tool for West African Albian carbonate rocks.  
Prepared a written report for Chevron Overseas Petroleum Inc.
- 9/96-11/96   **Sedimentologist and stratigrapher: Onsite Scientist**  
**ODP Leg 174AX: Bass River Borehole, Bass River, New Jersey**
- 3/94-5/94     **Sedimentologist and stratigrapher: Onsite Scientist**  
**ODP Leg 150X: Cape May Borehole, Cape May, New Jersey**
- 9/93-5/99     **Teaching Assistant**  
Rutgers, the State University of New Jersey, New Brunswick, NJ

## EDUCATION

- October, 1999   **Ph.D., Geology**  
Rutgers, the State University of New Jersey, New Brunswick, NJ  
Dissertation Title: *A New Method for Extracting Water Depth, Relative Sea Level, and Eustatic Records From Onshore New Jersey Oligocene Sequence Stratigraphy*
- April, 1995    **M.S., Geology**  
Rutgers, the State University of New Jersey, New Brunswick, NJ  
Thesis Title: *New Jersey Oligocene Sequences Recorded at the Leg 150X Boreholes (Cape May, Atlantic City, and Island Beach)*
- May, 1986      **B.A., Education**  
Queens College, Flushing, New York

## FUNDING

### **National Science Foundation**

**(Award: \$109,605; funding Period: 7/04-6/07; Institution: Queens College)**

Title: *Acquisition of an Inductively coupled Plasma- Atomic Emission Spectrometer (ICP-AES) for Research and Educational Training at Queens College (CUNY), New York*

### **National Science Foundation**

**(Award: \$19,983; funding Period: 1/04-4/05)**

Title: **Supplement to** *New Tools Applied to a Classic Problem: Towards an Understanding of What Shapes the Stratigraphic Record at Passive Margins*

PI's: G. Mountain, N. Christie-Blick, C. McHugh, and S. F. Pekar

### **Ocean Drilling Program-Shore based Funds**

**(Award: \$8,065; Funding period: 11/03-10/05; Institution: Queens College)**

Title: *Developing Paired High-Resolution Isotopic and Mg/Ca ratio Records for the Late Paleocene (59.5-55.5 ma) from Leg 207 Site 1258*

PI's: S. Pekar

### **National Science Foundation**

**(Award: \$409,000; Funding period: 1/02-12/03)**

Title: *New Tools Applied to a Classic Problem: Towards an Understanding of What Shapes the Stratigraphic Record at Passive Margins*

PI's: G. Mountain, N. Christie-Blick, C. McHugh, and S. F. Pekar

The objective of this grant is to examine Cretaceous/early Paleogene and Pleistocene sequence stratigraphic development in the New York Bight shelf area.

### **Hudson River Foundation**

**(Award: \$87,867; Funding period: 9/01-4/04)**

Title: *Assessing the Natural Hazard for the Lower Hudson River Region by Estimating Climate Variability for the Past 6,000 Years*

PI's: C. McHugh, S.F. Pekar, and L. Burckle

This grant will permit development of a high-resolution climate record of the Hudson Valley region for the past 6,000 years.

### **Ocean Drilling Program-Post Cruise Funds**

**(Award: \$22,497; Funding period: 9/00-12/03)**

Title: *Early Miocene High-resolution Stable Isotopic Studies from Site 1168*

PI's: R. Fairbanks and S. Pekar

This grant provided funding for partial salary support, supplies and analytical studies needed to work on samples obtained from Ocean Drilling Program Leg 189 Site 1168.

**National Science Foundation, Ocean Sciences Program**

**(Award: \$126,153; Funding period: 5/00-4/03)**

Title: *Direct Calibration of the Stratigraphic Response to Glacioeustatic Changes Using Oxygen Isotopic Data (Oligocene Sequences, Onshore New Jersey)*

PI's: N. Christie-Blick and S.F. Pekar

This grant provided funding for salary, supplies and analytical studies to work on cores obtained from the onshore ODP Leg 150X and 174AX boreholes.

**Ocean Drilling Program**

**(Award: \$15,365; Funding period: 5/00-7/00)**

Shipboard Scientist

Salary was provided for S. Pekar for participating as a shipboard scientist on the JOIDES Resolution ODP Leg 189.

**Internal (Queens College, CUNY) Grants/Awards**

**PSC-CUNY Research Grant**

**(Award: \$4,850; Funding period: 7/04-6/05)**

Title: *Developing High-Resolution Isotopic Records for the Late Paleocene (59.5-55.5 Ma) from Leg 207 Site 1258*

**Internal (LDEO) Grants/Awards**

**Lamont's Climate Center**

**(Award: \$5,850; Funding period: 8/04-2/06)**

Title: *Four Different Methods for Dating the Mahuika Impact Event*

PI's: D. Abbott and S. Pekar

**Lamont's Climate Center**

**(Award: \$5,830; Funding period: 2/03-1/04)**

Title: *Mahuika Impact Event: Source of Local Climate Change?*

PI's: D. Abbott and S. Pekar

This grant provides funds for studying the impact crater located south of New Zealand.

**Lamont's Climate Center**

**(Award: \$6,000; Funding period: 8/02-7/03)**

Title: *Developing High-Resolution Climate Records for the Hudson River Region Using an Integrated Approach*

PI's: S. Pekar and C. McHugh

This grant provides funds for obtaining vibracores from the Hudson River.

**Lamont's Climate Center**

**(Award \$1,967; Funding period: 1/01-12/01)**

Title: *Estimating Climate Variability for the Lower Hudson River Region Using a Two-Tracer Approach: Oxygen Isotopes and Mg/Ca Ratios*

PI: S. Pekar

This research will develop the tools to evaluate climate variability (decadal to centennial scale) of the Hudson River region based on climate reconstructions from a time slice between 4,900 and 5,100 yr. B.P.

**Lamont's Climate Center**

**(Award: \$ 3,214; Funding period: 1/00-12/01)**

Title: *The Miocene Climate Transition in the SE Pacific: is the Navidad Formation of Chile a Good Register?*

PI: K. Gregory and S. Pekar

This is was pilot study to determine the viability of using the Navidad Formation from central Chile as a register of both marine and terrestrial climate variability during the Miocene.

**Lamont Doherty Earth Observatory Internal Funds**

**(Award: \$263,389; Funding period: 8/00 –1/01)**

Title: *Hudson River Project*

PI: D. Peteet, R. Bell

This grant included salary for S. Pekar to work on Hudson River cores.

**Lamont's Climate Center**

**(Award: \$1,243; Funding period: 7/00-1/01)**

Title: *Estimating Climate Variability for the Lower Hudson River Region Using Benthic Foraminiferal Biofacies and lithofacies Analysis*

PI: S. Pekar

**PENDING AWARDS**

**PUBLICATIONS**

- Harwood, D., Pekar, S.F., Florindo, F., Levy, R., Fielding, C.R., ANDRILL Program drilling in Southern McMurdo Sound (SMS): obtaining proximal archives of Antarctic environmental changes for the past 19 million years: to be submitted to *Marine Geology*.
- Pekar, S. F., Christie-Blick, N., Estimates of Oligocene sea-level amplitudes and ice-volume changes at Milankovitch time scales: to be submitted to *Geology*.
- Pekar, S.F., Harwood, D., DeConto, R., Resolving a late Oligocene conundrum: deep-sea warming versus Antarctic glaciation: submitted to *Geology*.
- Pekar, S. F., Hucks, A., Fuller, M., and Li, S., Glacioeustatic changes in the early and middle Eocene (51-42 Ma) greenhouse world based on shallow-water stratigraphy from ODP Leg 189 Site 1171 and oxygen isotope records: *Geological Society of America Bulletin*, in revision.
- Pekar, S. F., McHugh, C., Christie-Blick, N., Carbotte, S., Bell, R. E., and Lynch-Stieglitz, J., Estuarine processes and their stratigraphic record: paleosalinity and sedimentation changes in the Hudson Estuary: *Marine Geology*, in press.
- McHugh, C., Pekar, S. F., Christie-Blick, N., Ryan, W B. F., Carbotte, S., Bell, R., and Burckle, L., 2004, Spatial variation in a condensed interval between estuarine and open-marine settings: Holocene Hudson River estuary and adjacent continental shelf: *Geology*, 32:169-172.
- Pekar, S. F., Christie-Blick, N., Miller, K. G., and Kominz, M. A., 2003, Evaluating factors controlling stratigraphic architecture at passive continental margins: Oligocene sedimentation in New Jersey: *Journal of Sedimentary Research*, v. 73, p. 227-245.

- Miller, K. G., Browning, J. V., Sugarman, P. J., McLaughlin, P. P., Kominz, M. A., Olsson, R. K., Wright, J. D., Cramer, B. S., Pekar, S. F., Van Sickel, W., 2003, Leg 174AX Leg Summary: Sequences, sea level, tectonics, and aquifer resources: coastal plain drilling by ODP Leg 174AX: Proceedings of the Ocean Drilling Program, Scientific Results, 174AX: College, Texas (Ocean Drilling Program), 40 p.
- Pekar, S. F., Christie-Blick, N., Kominz, M. A., and Miller, K. G., 2002, Calibrating eustasy to oxygen isotopes for the early icehouse world of the Oligocene: *Geology*, 30:903-906.
- Exon, N., Kennett, J., Malone, M., Brinkhaus, H., Chaproniere, G., Ennyu, Atsuhito, Fothergill, P., Fuller, M., Grauert, M., Hill, H., Janecek, T., Kelly, C., Latimer, J., McGonigal, K., Nees, S., Ninnemann, U., Nuernberg, D., Pekar, S., Pellaton, C., Pfuhl, H., Robert, C., Rohl, U., Schellenberg, S., Shevenell, A., Stickley, C., Suzuski, N., Touchard, Y., Wei, W., and White, T., 2002, Drilling reveals climatic consequences of Tasmanian gateway opening: *Eos, Transactions, American Geophysical Union*, 83:258-259.
- Kominz, M. A., and Pekar, S. F., 2001, Oligocene eustasy from two-dimensional sequence stratigraphic backstripping: *Geological Society of America Bulletin*, 113:291-304.
- Pekar, S. F., Christie-Blick, N., Kominz, M. A., and Miller, K. G., 2001, Evaluating the stratigraphic response to eustasy from Oligocene strata in New Jersey: *Geology*, 29:55-58.
- Pekar, S. F. and Kominz, M.A., 2001, Two-dimensional paleoslope modeling: a new method for estimating water depths for benthic foraminiferal biofacies and paleo shelf margins: *Journal of Sedimentary Research*, 71:608-620.
- Exon, N., Kennett, J., Malone, M., Brinkhaus, H., Chaproniere, G., Ennyu, Atsuhito, Fothergill, P., Fuller, M., Grauert, M., Hill, H., Janecek, T., Kelly, C., Latimer, J., McGonigal, K., Nees, S., Ninnemann, U., Nuernberg, D., Pekar, S., Pellaton, C., Pfuhl, H., Robert, C., Rohl, U., Schellenberg, S., Shevenell, A., Stickley, C., Suzuski, N., Touchard, Y., Wei, W., and White, T., 2001, Proceedings of the Ocean drilling Program Initial Report, 189: College Station, Texas (Ocean Drilling Program).
- Robert, C.M. Exon, N.F., Kennett, J.P. Malone., M.J., Brinkhuis, H., Chaproniere, G.C.H., Ennyu,A., Fothergill, P., Fuller, M.D., Grauert, M., Hill, P.J., Janecek, T.R., Kelly, D.C., Latimer, J.C., McGonigal Roessig, K., Nees, S., Ninnemann, U.S., Nürnberg, D., Pekar, S.F., Pellaton, C.C., Pfuhl, H.A., Röhl, U., Schellenberg, S.A., Shevenell, A.E., Stickley, C.E., Suzuki, N., Touchard, Y., Wei, W., White T., 2001, Paleogene ocean opening of South of Tasmania, and paleoceanographic implications: preliminary results of clay mineral analyses (ODP Leg 189): *Earth and Planetary Science*, 332:323-329.
- Pekar, S. F., Miller, K. G., and Kominz, M. A., 2000, Reconstructing the stratal geometry of New Jersey Oligocene sequences: resolving a patchwork distribution into a clear pattern of progradation: *Sedimentary Geology*, 134:93-109.
- Miller, K. G., Browning, J. V., Pekar, S. F., Sugarman, P. J., 1997, Cenozoic evolution of the New Jersey Coastal Plain: Changes in sea-level, tectonics, and sediment supply in Miller, K. G. and Snyder, S. W., Proceedings of the Ocean Drilling Program, Scientific Results, 150X: College, Texas (Ocean Drilling Program), p. 361-376.
- Miller, K. G., Rufolo, S., Gwynn, D., and Pekar, S. F., 1997, Miocene benthic foraminiferal biofacies and sequences: in Miller, K. G. and Snyder, S. W., Proceedings of the Ocean Drilling Program, Scientific Results, 150X: College, Texas (Ocean Drilling Program), p. 169-186.
- Pekar, S. F., Miller, K. G., and Browning, J. V., 1997, New Jersey Coastal Plain Oligocene Sequences: in Miller, K. G. and Snyder, S. W., Proceedings of the Ocean Drilling Program, Scientific Results, 150X: College, Texas (Ocean Drilling Program), p. 187-206.
- Pekar, S. F., Miller, K. G., and Olsson R. K., 1997, Data report: the Oligocene Sewell Point and Atlantic City Formations, New Jersey Coastal Plain: in Miller, K. G. and Snyder, S. W., Proc.

Ocean Drilling Program, Scientific Results, 150X: College, Texas (Ocean Drilling Program), p. 81-90.

Sugarman, P. J., McCartan, L., Miller, K. G., Pekar, S. F., Feigenson, M. D., Kistler, R. W., and Robinson, A. G., 1997, Strontium-isotopic comparisons of Oligocene to Miocene sequences, New Jersey and Florida: in Miller, K. G. and Snyder, S. W., Proceedings of the Ocean Drilling Program, Scientific Results, 150X: College, Texas (Ocean Drilling Program), p. 147-160.

Miller, K. G., Mountain, G. S., Blum, P., Gartner, S., Alm, P.G., Aubry, M.P., Burckle, L. H., Guerin, G., Katz, M. E., Christensen, B. A., Compton, J., Damuth, J. E., Deconinck, J. F., de Verteuil, L., Fulthorpe, C. S., Hesselbo, S. P., Hoppie, B. W., Kotake, N., Lorenzo, J. M., McCracken, S., McHugh, C. M., Quayle, W. C., Saito, Yoshiki, S., S. W., ten Kate, W. G., Urrutia, M., Van Fossen, M. C., Vecsei, A., Sugarman, P. J., Mullikin, L., Pekar, S., Browning, J. V., Liu, C., Feigenson, M. D., Goss, M., Gwynn, D., Queen, D. G., Powars, D. S., Heibel, T. D., Bukry, D., 1996, Drilling and dating New Jersey Oligocene-Miocene sequences; ice volume, global sea level, and Exxon records, *Science*, 271:1,092-1,095.

Pekar, S. F. and Miller, K. G., 1996, New Jersey Oligocene "Icehouse" sequences (ODP 150X) correlated with global  $^{18}\text{O}$  and Exxon eustatic records: *Geology*, 24:567-570.

## INVITED TALKS

Pekar, S. F., Harwood D., Deconto R., 2004, [**Key lecture**] Resolving a late Oligocene conundrum: deep-sea warming versus Antarctic glaciation: 32nd International Geological Congress, Florence, Italy, in press.

Pekar, S.F., Hucks, A., Fuller, M., Li, S., 2003, Glacioeustatic changes in the early and middle Eocene (51-42 Ma) greenhouse world based on shallow-water stratigraphy from ODP Leg 189 Site 1171 and oxygen isotope records: EOS, Transactions, American Geophysical Union, v. 84 (46), F-900.

Using a new method to estimate global sea-level changes: results and implications from 2-D flexural backstripping of Oligocene (34-23 Ma) strata: **University of Massachusetts**, Amherst MA, 10/03.

Using a new method to estimate global sea-level changes: results and implications from 2-D flexural backstripping of Oligocene (34-23 Ma) strata: **University of Chicago**, Chicago IL, May, 2003

Evaluating Sea-level and Climate Change from the Greenhouse to Icehouse Worlds: **University of California at Riverside**, December, 2002.

Pekar, S.F., Marchitto, T., Lynch-Steiglitz, J., White, T., Ennyu, A., 2002, Evidence for a tropical source for climate change during the early Miocene (19-16 Ma): Stable isotopic and Mg/Ca records from ODP Leg 189 Site 1168, EOS, Transactions, American Geophysical Union, F927.

Pekar, S. F., Kominz, M., and Miller, K. G., 2000, A new method for extracting water depth, relative sea-level, and eustatic records from onshore New Jersey Oligocene sequence stratigraphy: Geological Society of America, Northeast Section.

Pekar, S. F., and Kominz, M. A., 2000, Two-dimensional paleoslope modeling: a new method for estimating water depths for benthic foraminiferal biofacies, paleo shelf margins, and systems tracts: AAPG Annual Convention, New Orleans, LA.

Constructing a Global Sea-Level Curve for the Oligocene Using a New Method for Extracting Eustasy from Onshore New Jersey Sequence Stratigraphy: **Woods Hole Oceanographic Institute**, Geology and Geophysics Department Seminar, November 1999.

- Pekar, S. F., and Kominz, M. A. 1999, Extracting a eustatic record from western equatorial Pacific  $^{18}\text{O}$  records and onshore New Jersey Oligocene sequence stratigraphy, AAPG Annual Convention, San Antonio, TX, 8:A106-A107.
- Constructing a Global Sea-Level Curve From Onshore New Jersey Sequence Stratigraphy and Western Equatorial Pacific Oxygen Isotopic Records for the Late Paleogene (34.2-23.6 Ma): Marine Geology and Geophysics (MG&G) Seminar Series, **Lamont-Doherty Earth Observatory of Columbia University**, Palisades, NY, February, 1999.
- Correlating the  $^{18}\text{O}$  Record with the New Jersey Oligocene Sequences Recorded at the Leg 150X Boreholes (Cape May, Atlantic City, and Island Beach): Integrated Cenozoic Magneto-, -Bio-, Chemo- Chronology and Sequence Stratigraphy: Applications to Global Correlations and Sea Level, Annual Review Meeting, **Woods Hole Oceanographic Institute**, May, 1997.
- New Jersey Oligocene Sequences Recorded at the Leg 150X Boreholes (Cape May, Atlantic City, and Island Beach): Integrated Cenozoic Magneto-, -Bio-, Chemo- Chronology and Sequence Stratigraphy: Applications to Global Correlations and Sea Level, Annual Review Meeting, **Woods Hole Oceanographic Institute**, May, 1995.

## ABSTRACTS

- Pekar, S. F., Harwood D., Florindo F., Fielding C., Levy, ANDRILL Program drilling in Southern McMurdo Sound (SMS): obtaining proximal archives of Antarctic environmental changes for the past 17 million years: 32nd International Geological Congress, Florence, Italy, in press.
- McHugh, C. M. G., Gould, H., Mountain, G. S., Christie-Blick, N., Pekar, S., Gurung, D., Hartin, C., 2004, Evidence of the latest Pleistocene-Holocene shoreline along the New York-New Jersey, U.S., continental margin: 32nd International Geological Congress, Florence, Italy, in press.
- Harwood D., Florindo F., Fielding C., Levy R., Pekar S., and ANDRILL Science Committee, ANDRILL Program stratigraphic drilling project in Southern McMurdo Sound (SMS): An overview of site surveys and scientific objectives: XXVIII SCAR Science and XVI COMNAP/SCALOP Meeting, Bremen, Germany, in press.
- Abbott, D.H., Pekar, S.F., Kumar, M., Sand lobes on Stewart Island as probably impact-tsunami deposits: 35th Lunar and Planetary Science Conference, in press.
- Brownlee, S J., McHugh, C., Burckle, L., and Pekar, S, 2004, Diatoms as proxies for climate change in the Hudson River estuary, New York: Geological Society of America Abstracts with Programs v. 36, No. 2.
- Gould, H., McHugh, C. M. G., Mountain, G. S., Christie-Blick, N., Pekar, S., Gurung, D., Hartin, C., 2004, Evidence for the latest Pleistocene-Holocene shoreline along the New York-New Jersey continental margin: Geological Society of America Abstracts with Programs v. 36, No. 2.
- Pekar, S. F., Christie-Blick, N., 2003, Estimates of Oligocene sea-level amplitudes and ice-volume changes at Milankovitch time scales: EOS, Transactions, American Geophysical Union, v. 84 (46), p. F-901.
- Abbott, D.H., Matzen, A., Bryant, E.A., Pekar, S.F., 2003, Did a bolide impact cause catastrophic tsunamis in Australia and New Zealand?: Geological Society of America Abstracts with Programs, in press.
- Matzen, A., Abbott, D.H., Pekar, S.F., 2003, the spatial distribution and chemical differences of tektites from a crater in the Tasman Sea: Geological Society of America Abstracts with Programs, in press.
- Pekar, S. F., Christie-Blick, N., Miller, K. G., and Kominz, M. A., 2003, Calibrating Oligocene eustasy to oxygen isotope data: eustatic estimates from two-dimensional flexural backstripping from

- the New Jersey continental margin (USA): European Union of Geosciences Meeting, in Geophysical Research Abstracts, v. 5, 13,654.
- Ghosh, A., Christie-Blick, N., Mountain, G. S., McHugh, C. M. G., Pekar, S. F., Late Pleistocene sequence geometry beneath the Long Island shelf from CHIRP sonar data: 10<sup>th</sup> Annual Geology of Long Island and Metropolitan New York, SUNY Stony Brook, NY.
- Pekar, S. F., Gonzalez-McHugh, C. M., Christie-Blick, N., Jones, M. C., Lynch-Stieglitz, J., Using salinity estimates and sedimentary data to evaluate the processes that controlled the evolution of Hudson River estuary during the mid-Holocene: EOS, Transactions, American Geophysical Union, F-787.
- Christie-Blick, N., Mountain, G. S., Ghosh, A., McHugh, C. M. G., Pekar, S. F., Schock, S. G., 2002, New insights on late Pleistocene sedimentation at the New Jersey margin based on chirp sonar profiles and vibracores: EOS, Transactions, American Geophysical Union, F-727.
- Jones, M. C., McHugh, C. M. G., Burckle, L., Pekar, S. F., Pereira, G., Ryan, W. B. F., Bell, R., and Carbotte, S., 2002, Decadal to millennial sedimentation patterns of the Hudson River estuary: EOS, Transactions, American Geophysical Union, F-787.
- McHugh, C. M. G., Pekar, S. F., Ryan, W. B. F., Carbotte, S., Bell, R., and Burckle, L., 2002, Infilling of the Hudson River Estuary during the latest Holocene (3,000 BP to present): implications for estuarine stratigraphic models: EOS, Transactions, American Geophysical Union, F780.
- Miller, K. G., Kominz, M. A., Wright, J. D., Browning, J. V., Pekar, S. F., and Sugarman, P. J., 2002, Antarctic ice evolution viewed from NJ and the deep sea: EOS, Transactions, American Geophysical Union, F-950.
- Christie-Blick, N., Pekar, S. F., and Mountain, G. S., 2001, Origin of sequences and sequence boundaries: The Atlantic Margin as a stratigraphic frontier: Geological Society of America Abstracts with Programs, A-98.
- McHugh, C. M. G., Ryan, B., Pekar, S. F., Zheng, Bell, R. E., Carbotte, S., Chillrud, S., Rubenstone, J.L., 2001, Dynamic equilibrium of the Hudson Estuary revealed by the sedimentary record: Geological Society of America Abstracts with Programs, A-453.
- Jones, M. C., Pekar, S. F., Gonzalez-McHugh, C. M., Lynch-Stieglitz, J., Rubenstone, J. L., Bell, R. E., and Carbotte, S., 2001, Developing an integrated approach in understanding the evolution of the Hudson Estuary: Geological Society of America Abstracts with Programs, A-453.
- Pekar, S. F., Christie-Blick, N., and Mountain, G. S., 2001, Quantitative constraints on the factors that control stratigraphic architecture at passive continental margins: Oligocene sedimentation in New Jersey: Geological Society of America Abstracts with Programs, A-98.
- Steckler, M. S., Christie-Blick, N., Mountain, G. S., Pekar, S.F., Monteverde, D. H., and Miller, K. G., 2001, Variability of sequence geometry and depositional morphology during late Eocene to Pleistocene progradation at the New Jersey margin: Results of serial 2-D backstripping: Chapman Conference on Continental Margins, Ponce, Puerto Rico.
- Pekar, S. F., Christie-Blick, N., Kominz, M. A., and Miller, K. G., 2000, Establishing the stratigraphic response to eustasy from Oligocene strata in New Jersey: EOS, Transactions, American Geophysical Union, 80:F-667.
- Pekar, S. F., Kominz, M., and Miller, K. G., 1999, Constructing a Global Sea-Level Curve for the Oligocene Using a New Method for Extracting Eustasy from Onshore New Jersey Oligocene Sequence Stratigraphy: EOS, Transactions, American Geophysical Union, 80:F516.
- Pekar, S. F., Miller, K. G., Kominz, M., and Wright, J., 1999, Constructing a eustatic record from onshore New Jersey Oligocene sequence stratigraphy and western equatorial Pacific <sup>18</sup>O records (Site 803D): European Union of Geosciences, Strasbourg, Fr., 4:743.

- Miller, K. G., Sugarman, P.J., Browning, J.V., Wright, J.D., Pekar, S.F., Mountain, G.S., and Katz, M., 1998, Onshore-offshore correlations of Cenozoic sequences, New Jersey coastal plain and slope: Geological Society of America Abstracts with Programs, 30: A-267.
- Monteverde, D.H., Miller, K.G., Mountain, G.S., Buhl, P., Carbotte, S., Sheridan, R., Cramer, B.S., Pekar, S.F., 1998, New seismic correlations of onshore NJ boreholes with offshore sequences: verification of ages and speculations on within-sequence facies variations: Geological Society of America Abstracts with Programs, 30:A-267.
- Pekar, S. F., Miller, K. G., Kominz, M., and Wright, J., 1998, Extracting an eustatic record from western equatorial Pacific <sup>18</sup>O records (Site 803D) and onshore New Jersey Oligocene sequence stratigraphy: EOS, Transactions, American Geophysical Union, 79:F465.
- Pekar, S. F., Kominz, M., and Miller, K. G., 1998, Onshore-offshore comparisons of New Jersey Oligocene sequences: reconstructing the stratal geometries and estimating eustasy: Geological Society of America Abstracts with Programs, 30:A-266.
- Pekar, S. F., Fouke, B., and Dignes, T., 1998, Strontium isotopic chemostratigraphy of the Pinda Formation (Albian) offshore Cabinda, Angola: South Atlantic Mesozoic Correlations, Abstracts of the third Annual Conference, p. 24-25.
- Pekar, S. F., and Miller, K. G., Rufolo, S., and Gwynn, D., 1996, New Jersey Oligocene and Miocene benthic foraminiferal biofacies: systems tracts and paleobathymetry: Geological Society of America Abstracts with Programs, 28:A-117.
- Miller, K. G., Pekar, S. F., and Pak, D.K., 1995, Eocene-Oligocene global climate, eustatic, and regional sedimentation changes: the Icehouse turns the "siliciclastic switch": EOS, Transactions, American Geophysical Union: eustatics and tectonics: EOS, Transactions, American Geophysical Union, 76:S-97.
- Miller, K. G., Van Fossen, M., Browning, J.V., Pekar, S. F., 1995, Dating unconformities in the Eocene-Oligocene of the New Jersey and Gulf coastal plains with integrated magneto-, isotopic, and biostratigraphy: eustatics and tectonics: EOS, Transactions, American Geophysical Union, 76:S-97.
- Pekar, S. F., and Miller, K. G., 1995, New Jersey Oligocene sequences: eustatics and tectonics: EOS, Transactions, American Geophysical Union, 76:S-97.
- Pekar, S. F., and Miller, K. G., 1995, New Jersey Oligocene recorded at the Leg 150X borehole sites (at Cape May, Atlantic City, Island Beach): The First SEPM Congress on Sedimentary Geology, Aug. 13-16, p. 99.
- Pekar, S. F and Miller, K. G., 1994, Correlation of Oligocene sequences between the New Jersey and Alabama Coastal Plain: Geological Society of America Abstracts with Programs, 26:A-90.

## **VOLUNTEERED LECTURES**

- Developing a Eustatic Record From Western Equatorial Pacific <sup>18</sup>O Records and Onshore New Jersey Oligocene Sequence Stratigraphy: Queens College, Flushing, NY, May 1999.
- Onshore-offshore New Jersey Oligocene Sequences: Reconstructing the Stratal Geometry and Estimating Eustasy: Business Unit Seminar, Chevron Overseas Petroleum Inc., San Ramon, California, December 1998.

Developing an Integrated Sequence/Seismic Stratigraphic Framework For the West African Tertiary, Using Benthic Foraminiferal Biofacies and Sr-isotopic Chemostratigraphy: Business Unit Seminar, Chevron Overseas Petroleum Inc., San Ramon, California, July, 1997.

Sr-Isotopic Chemostratigraphy: Development of a High Resolution Chronostratigraphic Tool for the Pinda Formation: Business Unit Seminar, Chevron Overseas Petroleum Inc., San Ramon, California, July, 1996.

## **POSTER PRESENTATIONS**

Stratigraphic Expression of the Turbidity Maximum and Evidence for Short-Term Climate Change from Estimates of Paleosalinity in the Hudson Estuary Between 6 and 2 ka: Presented at the conference Higher Education and the Hudson River valley: Meeting the Environmental Challenge, February, 2004.

## **NON-REVIEWED PUBLICATIONS**

Harwood, D., Florindo, F., Fielding, C., Levy, R., Pekar, S.F., Southern McMurdo Sound Project, 2004. *Andrill*, v. 2, p. 3-4.

Exon, N.F., Kennett, J.P. Malone., M.J., Brinkhuis, H., Chaproniere, G.C.H., Ennyu, A., Fothergill, P., Fuller, M.D., Grauert, M., Hill, P.J., Janecek, T.R., Kelly, D.C., Latimer, J.C., McGonigal Roessig, K., Nees, S., Ninnemann, U.S., Nürnberg, D., Pekar, S.F., Pellaton, C.C., Pfuhl, H.A., Robert, C.M., Röhl, U., Schellenberg, S.A., Shevenell, A.E., Stickley, C.E., Suzuki, N., Touchard, Y., Wei, W., White T., 2001, *Proceedings of the Ocean Drilling Program, Initial Reports, Leg 189, College Station, TX (Ocean Drilling Program)*, 98 p.

Miller, K. G., Sugarman, P. J., Browning. Pekar, S. F., Katz, M. E., Cramer B. S., Monteverde. D. H., Uptegrove, J., McLaughlin, P. P. Jr., Baxter, S. J., Aubry, M. P., Olsson, R. K., Van Sickel, B., Metzger, K. T., Feigenson, M. D., Tiffin, S., McCarthy, F., In Miller, K. G., Sugarman, P. J., Browning, J. V., et al., 2003, *Proceedings of the Ocean Drilling Program, Ocean View Site Initial report 174AX (supplement): 72 p. [CD-ROM]*. Available from: Ocean Drilling Program, Texas A & M University, College Station, Texas.

Miller, K. G., Sugarman, P. J., Browning. J. V., Cramer, B. S., Olsson, R. K., de Romero, L., Aubry, M. P., Pekar, S. F., Georgescu, M. D., Metzger, K. T., Monteverde, D. H., Skinner, E. S., Uptegrove, J., Mullikin, L. G., Mull, F. L., Feigenson, M. D., Reilly, T. J., Brenner, G. J., Queen, D., 2003, In Miller, K. G., Sugarman, P. J., Browning, J. V., et al., *Proceedings of the Ocean Drilling Program, Ancora Site Initial Report 174AX (supplement): 65 p. [CD-ROM]*. Available from: Ocean Drilling Program, Texas A & M University, College Station, Texas.

Miller, K. G., McLaughlin, P. P. Jr., Browning. J. V., Benson, R. N., Sugarman, P. J., Hernandez, J., Ramsey, K. W., Baxter, S. J., Feigenson, M. D., Aubry, M. P., Monteverde, D. H., Cramer, B. S., Katz, M. E., McKenna, T. E., Strohmeier, S. A., Pekar, S. F., Uptegrove, J., Cobbs, G., Cobbs, G., III, Curtinm S. E., In Miller, K. G., Sugarman, P. J., Browning, J. V., et al., *Proceedings of the Ocean Drilling Program, Bethany Beach Site Initial Report 174AX (supplement): 85 p. [CD-ROM]*. Available from: Ocean Drilling Program, Texas A & M University, College Station, Texas.

Miller, K.G., Sugarman, P.J, Browning, J.V., Olsson, R.K., Pekar, S.F., Reilly, T.J., Cramer, B.S., Aubry, M.P., Lawrence, R.P., Curran, J., Stewart, M., Metzger, J.M., Uptegrove, J., Bukry, D.,

Burckle, L.H., Wright, J.D., Feigenson, M.D., Brenner, G.J., and Dalton, R.F., 1998, Bass River Site Report: Proceedings of the Ocean Drilling Program, Initial reports 174AX, 43 p.  
Miller, K.G., Aubry, M.P., Browning, J.V., Burckle, L.H., Feigenson, M.D., Heibel, T., Liu, C., Mullikin, L., Pekar, S.F., Powars, D., Queen, D., Sugarman, P.J., Van Fossen, M.C., 1996, Cape May Site report: Proceedings of the Ocean Drilling Program, Initial Reports, Leg 150X (Suppl.) College Station, TX (Ocean Drilling Program), 28 p.

## **NON-REVIEWED REPORTS**

Miocene Benthic Foraminiferal Biofacies and Sequences from Offshore Cabinda, Angola: *prepared for the Business Unit of Chevron Overseas Petroleum Inc., San Ramon, California, December, 1999.*  
Developing an Integrated Sequence/Seismic Stratigraphic Framework For the West African Tertiary, Using Benthic Foraminiferal Biofacies and Sr-isotopic Chemostratigraphy: *prepared for the Business Unit of Chevron Overseas Petroleum Inc., San Ramon, California, December, 1997.*  
Sr-Isotopic Chemostratigraphy: Development of a High Resolution Chronostratigraphic Tool for the Pinda Formation: *prepared for the Business Unit of Chevron Overseas Petroleum Inc., San Ramon, California, December, 1996.*

## **PROPOSALS AND MANUSCRIPTS REVIEWED**

### **2000 through 2004**

#### Journals

2 Global and Planetary Change  
2 Journal of Sedimentary Research  
3 Geology  
1 Journal of Micropaleontology

#### Books

1 AAPG special volume, Olson, H., and Leckie, M. editors  
1 GSA Penrose Special Volume, D. Prothero, editor

#### Proposals reviewed

2 NSF proposals reviewed  
1 IODP proposal reviewed  
1 ESF Eurocores on Euro climate

### **Pre-2000**

#### Journals

1 Journal of Geology  
1 Journal of Sedimentary Geology

## **WORKSHOPS ATTENDED**

### **Higher Education and the Hudson River Valley: Meeting the Environmental Challenge**

February, 2004

Dolce Tarrytown House, Tarrytown, NY

The Environmental Consortium of Hudson Valley Colleges & Universities is an intercollegiate association for the establishment of the Hudson River Valley as a global center for the advancement of environmental studies and policy through the utilization of shared resources.

### **ANDRILL (Antarctic DRILLing) workshop**

November 2003

University of Nebraska, Lincoln, NE

ANDRILL (ANtarctic DRILLing) is a multinational initiative with the objective to recover stratigraphic core records for the use of interpreting Antarctic's climatic, glacial, and tectonic history for the past 50 Ma. NSF has already provided support for ANDRILL's drilling program in the Ross Sea for the first two years, with the goal of extending this commitment to the year 2010 at least. I am one of 6 scientists selected to be on the final site survey committee for Southern McMurdo Sound (SMS) drilling project. This workshop revisited the geological history of the SMS area using reprocessed seismic profiles and new age dates from nearby cores, resulting in new exciting hypotheses on the geological evolution of the SMS region. This resulted in an abstract submitted to IGC (Pekar et al.) as well as the preparation of a manuscript to Marine Geology (Harwood, Pekar et al.). This will be the first project to be drilled by ANDRILL (late 2005).

### **Interdisciplinary Thinking in an Interdisciplinary World Faculty Development Seminar**

November 2003 and spring, 2004

CUNY Graduate Center

Interdisciplinary Teaching in an Interdisciplinary World" is a two-semester faculty development seminar for CUNY faculty and co-sponsored by the CUNY Honors College and the CUNY Faculty Development Program. Its purpose is to encourage and support effective and rigorous interdisciplinary curriculum planning and teaching. participants will attend a series of workshops designed to give them experience with pedagogical approaches that promote interdisciplinarity, such as collaborative and inquiry-based teaching and learning; curricular enrichment through a variety of materials—archival, visual, and virtual—from multiple disciplines; and partnerships with cultural and community institutions engaged in cross-disciplinary work.

### **Margins: Source to Sink- Education and Planning Workshop**

September 11-15, 2000

Lake Tahoe

This workshop developed interdisciplinary approaches to research in the focus areas, and to implement a research strategy that maximizes synergy and use of facilities.

### **Margins: Source to Sink-- Sedimentary/Stratigraphy Workshop**

September 28 - October 1, 1999

Lake Quinault, Washington State,

NSF, JOI Inc., and the MARGINS Program sponsored an interdisciplinary workshop (~50 participants) to discuss the most important directions for future research, recommend strategies for understanding pathways followed by sediments on their journey from source to sink (e.g., hill-slope erosion, river transport, biological production, temporary storage, seabed burial),

which have major impacts on the lives and livelihoods of people worldwide, ranging from natural hazards, to pollutant transport, shoreline erosion, and resource preservation

**Complex- Conference on Multiple Platform Exploration of the Ocean**

May 26-29, 1999

Vancouver, BC, Canada

The overall goal for the COMPLEX workshop was to define the "intellectual challenges" of the post-2003 scientific ocean drilling program.

**COMMITTEE AND EDUCATIONAL SERVICE AND OTHER COMMUNITY ACTIVITIES**

**Assistant director for the LDEO summer internship program**

**(5/03-present)**

**U.S. Steering Committee of ANDRILL (ANtarctic DRILLing Program)**

**(3/04-present)**

ANDRILL is a multinational initiative with the objectives to “recover stratigraphic core records for the use in interpreting Antarctic’s climatic, glacial, and tectonic history for the past 50 Ma”.

**Science Research Committee for the Environmental Consortium of Hudson Valley Colleges & Universities**

**(3/04-present)**

The Consortium is “committed to engaging the member institutions, their faculty, students and staff, and the local community in the study and enhancement of the Hudson River Valley. A common purpose and shared resources will enable the Consortium to shape the environmental future of the region.”

**Site Survey Committee for Southern McMurdo Sound project, ANDRILL (Antarctic drilling program)**

**11/03- present**

This Committee will be making the final decision on the site selection for the first two boreholes to be drilled during the 2005/2006 drilling season.

**Science intern program for high school students**

**(11/03-present)**

I have begun a program for high school students from schools that serve minority groups typically under represented in the sciences that pairs students to high level science projects.

**Divisional Representative to the Queens College Academic Senate**

**10/03-present**

**Cooperation with the Department of Environmental Protection for preserving and using cores from the NYC area (6/02- 12/02).**

The D.E.P. and other agencies possess a vast collection of cores obtained throughout NYC.

I was part of a team from LDEO that was evaluating the potential for providing a repository for some of these cores at LDEO and/or sampling them for scientific investigations.

**Liberty Science Center (5/02-present)**

Currently, they are developing a 7,500 square foot exhibition that will explore the interaction between human activities and natural systems of the Hudson River estuary.

I will be participating in their symposium on the Hudson River and will be an advisor in the development of the Hudson River exhibition at the center.

**Yonkers Museum (11/00-3/01)**

Provided expertise both scientifically and educationally in developing curricula and exhibits on the Hudson River for the museum.

**Ocean Drilling Program Post Cruise Meeting, ODP Leg 189, Urbino, Italy (7/01).**

Presented two talks:

- Developing a High-Resolution Sea-Level Record for the Middle Eocene (50-42 Ma) based on Sequence Stratigraphy of Site 1171.
  
- Paleoceanographic Changes in the Tasman Sea and Methane Hydrate Instability along the East Tasman Rise During the Early Miocene: Stable Isotope Records from Site 1168.

**LIST OF CRUISES AND FIELD WORK****Determining the magnitude of a mega-tsunami event ~1500 AD (2/04)**

I am the Co-Pi leading an expedition of eight scientists and journalist to Stewart Island to identify mega-tsunami deposits and place constraints on run-ups

**Onsite scientist for ODP Leg 174AX, Sea Girt (10/03)**

I was an onsite sedimentologist and stratigrapher for the drilling of the Sea Girt borehole.

**Coring expedition on the Hudson River (R.V. Robert Hayes) (9/02)**

Co-PI on 2 day cruise to obtain vibracores from sites east of Alpine NJ to Storm King Mountain, NY

**Scientific expedition in the New York Bight on R.V. Endeavor (En370) (5/02-6/02)**

Co-PI on 3<sup>1</sup>/<sub>2</sub> week cruise to collect seismic, chirp data and vibracores for the area south of New York City.

**Fieldwork in Navidad Chile. (5/01)**

I described the sediments and dated early Miocene strata along the coast of Chile, placing them into a sequence stratigraphic framework.

**Onsite scientist for ODP Leg 174AX, Bethany Beach, DE (5/00-7/00)**

I was an onsite sedimentologist and stratigrapher for the drilling of the Bethany Beach borehole.

**Onboard scientist on ODP Leg 189 in the Tasman Sea (3/00-5/00)**

Participated as sedimentologist on oceanic cruise on the JOIDES Resolution.

**Staff scientist for ODP Leg 174AX, Ocean View, NJ (8/99-9/99)**

Provided logistics and participated as sedimentologist and stratigrapher for drilling of the Ocean View borehole.

**Onsite scientist for ODP Leg 174AX, Bass River, NJ (9/96-11/96)**

I was an onsite sedimentologist and stratigrapher for the drilling of the Bass River borehole.

**Onsite scientist for ODP Leg 150X, Cape May, NJ (3/94-5/94)**

I was an onsite sedimentologist and stratigrapher for the drilling of the Cape May borehole.

**ADVISORY ROLES**

Belinda Lin, Jullian Miller, Annie Morales, and Iliia Neizvestriyi; Glover Cleveland High School, Brooklyn, NY

High School project title: *Sedimentation history of the Hudson River from 7,000 to 2,000 years ago: Implications for sediment transport and climate changes*

Dates 11/03- present

Lauren Neitzke, Rutgers University

LDEO Summer internship

Summer Intern Project Title: Surface and intermediate paleoceanographic changes in the Southern Ocean during the early Miocene using stable isotopes and Mg/Ca ratios

Dates: 5/03-7/03

Shawna Li, Columbia University

LDEO Summer internship

Summer Intern Project Title: *Glacio Eustatic Change in the Early Middle Eocene (49.2-47.9 Ma)? Sequence Stratigraphy and Benthic Foraminiferal Analysis at ODP Leg 189 Site 1171*

Dates: 5/02-7/02

Robert Applebaum, Queens College

Ph.D. Thesis Title: *From Global "Doubthouse" to "Icehouse": Implications of middle to late Eocene Paleoclimate Change Along the New Jersey Passive Margin*

On advisory committee since 7/01

Expected defense date: 5/04

Miriam Jones, Barnard College

Senior Thesis Project- This project will continue the work she started during her summer intern project on the Hudson River cores as well as investigate sedimentary structures and determine the processes that formed them.

Dates: 9/01-5/02

Audrey Hucks, Rice University

LDEO Summer internship

Summer Intern Project Title: *Glacial Eustasy in a Global Greenhouse? An In-Depth Look at a Middle Eocene Sequence from ODP Leg 189 Site 1171*

Dates: 5/01-8/01

Miriam Jones, Barnard College

LDEO Summer internship

Summer intern project title: *Paleoenvironmental Variability During the Late Holocene in the Hudson River, Vema 32-02*

Dates: 5/01-8/01

Alexandra Marchese, Clarkstown High School South, West Nyack, NY

High School project

Project title: *Salinity and Energy Variations of the Western Flats (Core SD-11A) in the Hudson River Estuary*

Dates: 9/00-11/01

Amy Smith, Clarkstown High School South, West Nyack, NY

High School project

Project title: *Salinity and Grain Size Variability of the Western Near Shore Area of the Hudson River Estuary*

Dates: 9/00-8/01

## **PROFESSIONAL SOCIETIES**

American Association for the Advancement of Science

American Association of Petroleum Geologists

American Geophysical Union

Cushman Foundation for Foraminiferal Research

Geological Society of America

Society for Sedimentary Geology

## **COLLABORATORS**

### **Recent collaborators**

David Harwood, Univ. of Nebraska-Lincoln, Lincoln, NE

Robert DeConto, University of Massachusetts, Amherst, MA

Fabio Florindo, Istituto Nazionale di Geofisica e Vulcanologia, Roma, Italy

Christopher R. Fielding, Department of Geosciences, University of Nebraska-Lincoln, NE

Richard Levy, University of Nebraska-Lincoln, Lincoln, NE

Dallas Abbott, Lamont-Doherty Earth Observatory of Columbia University, Palisades, NY

Nicholas Christie-Blick, Lamont-Doherty Earth Observatory of Columbia University, Palisades, NY

Michael Fuller, University of Hawaii at Manoa, Honolulu, Hawaii

Mark Anders, Lamont-Doherty Earth Observatory of Columbia University, Palisades, NY

Lloyd Burckle, Lamont-Doherty Earth Observatory of Columbia University, Palisades, NY

Sidney Hemming, Lamont-Doherty Earth Observatory of Columbia University, Palisades, NY

Garry Karner, Lamont-Doherty Earth Observatory of Columbia University, Palisades, NY

Michelle Kominz, Department of Geosciences, Western Michigan Univ., Kalamazoo, MI

Jean Lynch-Steiglitz, Lamont-Doherty Earth Observatory of Columbia University, Palisades, NY

Cecilia McHugh, Queens College CUNY, Flushing, NY; and Lamont-Doherty Earth Observatory of Columbia University, Palisades, NY

Kenneth Miller, Rutgers, The State University of New Jersey, New Brunswick, NJ

Gregory Mountain, Lamont-Doherty Earth Observatory of Columbia University, Palisades, NY

Dorothy Petee, Lamont-Doherty Earth Observatory of Columbia University, Palisades, NY

**Past Manuscript and Proposal collaborators**

James Browning, Rutgers, The State University of New Jersey, New Brunswick, NJ

Richard Fairbanks, Lamont-Doherty Earth Observatory of Columbia University, Palisades, NY

Kathryn Gregory, Lamont-Doherty Earth Observatory of Columbia University, Palisades, NY

Richard Olsson, Rutgers, The State University of New Jersey, New Brunswick, NJ

Peter Sugarman, New Jersey Geological Survey, Trenton, NJ

James Zachos, Department of Earth Science, University of California at Santa Cruz, Santa Cruz, CA

**Other collaborators (abstracts, etc.)**

Thomas Dignes, Mobil Exploration & Producing Technical Center, Dallas, TX

Bruce Fouke, University of Illinois, Urbana, IL

Sharma Gaponoff, Chevron Overseas Petroleum Inc., San Ramon CA

Donald Monteverde, Rutgers, The State University of New Jersey, New Brunswick, NJ

James Rubenstone, Lamont-Doherty Earth Observatory of Columbia University, Palisades, NY

Michael Steckler, Lamont-Doherty Earth Observatory of Columbia University, Palisades, NY

James Wright, Rutgers, The State University of New Jersey, New Brunswick, NJ