

Philip A. Meyers

Professor Emeritus

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EDUCATION

Ph.D. (Oceanography) University of Rhode Island, Kingston, Rhode Island, 1972

B.S. (Chemistry) Carnegie-Mellon University, Pittsburgh, Pennsylvania, 1964

PROFESSIONAL POSITIONS

Visiting Professor, Hokkaido University, Winter 2008

Professor of Oceanography Emeritus, The University of Michigan, 2007-present

Professor of Oceanography, 1982-2007, The University of Michigan (Associate Professor, 1977-1982, Assistant Professor, 1972-1977)

Visiting Professor, Eidgenössische Technische Hochschule Zentrum, Zürich, Switzerland, Spring 2003

Resident Fellow, Hanse-Wissenschaftskolleg, Delmenhorst, Germany, Winter 2000 and Fall 2002

Swedish Royal Academy Visiting Fellow, Stockholm University, 2000

Visiting Professor, Kyoto University, Japan, Spring 1990 and Fall 1995

Assistant Director, Michigan Sea Grant College Program, 1983

Director, Great Lakes and Marine Waters Center, The University of Michigan, 1982

Summer Research Fellow, NOAA Great Lakes Environmental Research Laboratory, 1981

Visiting Scientist, Indiana University, 1979-1980

Research Chemist, Inmont Corporation, Clifton, NJ, 1967-1968

Explosive Ordnance Disposal Officer (USNR), Naval Air Facility, Sigonella, Sicily, 1964-1967

Research Chemist, Hoffmann-LaRoche Corporation, Nutley, NJ, 1962-1963

HONORS AND AWARDS

Received the Albert Nelson Marquis Lifetime Achievement Award from Marquis Who's Who (2019)

Awarded Lifetime Membership in American Association for the Advancement of Science in recognition of being an active member for fifty years (2018)

Elected Fellow, Association of Sciences of Limnology and Oceanography (2016)

Excellence in Reviewing Award, *Journal of Paleolimnology* (2015)

Excellence in Reviewing Award, *Palaeogeography, Palaeoclimatology, Palaeoecology* (2013)

Sigma Xi Distinguished Lecturer (2007-2009)

Joint Oceanographic Institutes Distinguished Lecturer (2007-2008)

Elected Fellow, American Association for the Advancement of Science (2002)

Elected Fellow, Geochemical Society (2002)

Elected Fellow, American Geophysical Union (1998)

Excellence in Education Award, The University of Michigan (1995)

Elected Fellow, Geological Society of America (1981)

Distinguished Assistant Professor Service Award, The University of Michigan (1976)

Elected to the Society of Sigma Xi (1971)

Listed in *American Men and Women of Science*

Listed in *Who's Who in Science and Technology*

Listed in *Who's Who in America*

Listed in *Who's Who in the World*

EDITORIAL SERVICE

Associate Editor, *Organic Geochemistry*, 1982-1987, 2005-2021

Editorial Board, *Geo-Marine Letters*, 1993-2016

Editorial Board, *Aquatic Geochemistry*, 1994-2015

Member, *Nature* Reader Panel, 2008-2010

Editorial Advisory Board, *Organic Geochemistry*, 1988-2007

Editorial Board, *Environmental Geology*, 1980-1993.

Associate Editor, *Geophysical Research Letters*, 1979-1981, 1992.

PROFESSIONAL SERVICE

Chair, AGU Paleoceanography/Paleoclimatology Focus Group Fellow Evaluation Committee, 2006-2012.
Scientific Advisor, Study of Organic Matter Production and Accumulation in the Cabo Frio Coastal
Upwelling System, Universidade Federal Fluminense, Niteroi, Brazil, 2009-2014
Advisor, Brazil-Chile-Peru Joint PhD Program in Environmental Geochemistry, 2009-2011
Chair, AGU Paleoceanography-Paleoclimatology Focus Group, 2006-2010
Honorary Fellows Committee, Geological Society of America, 2006-2009
Joint Technical Program Committee, Geological Society of America, 2006-2008
Vice-Chair, AGU Paleoceanography-Paleoclimatology Focus Group, 2005-2006
Editor Search Committee, *Paleoceanography*, 2005
Executive Committee, AGU Paleoceanography-Paleoclimatology Focus Group, 2004-2008
JOIDES Scientific Measurements Panel, 2000-2003
Nominating Committee, Organic Geochemistry Division of the Geochemical Society, 2001-2003, 1982-
1985, (Chair, 2003, 2001, 1985)
AAPG Membership Committee, 1997-2001
Nominating Committee, Geochemical Society, 1993-1995
Advisory Board, Petroleum Research Fund of the American Chemical Society, 1993-1998
Chair, Organic Geochemistry Division of the Geochemical Society, 1989-1991
JOIDES Atlantic Regional Panel, 1985-1988
JOIDES Sediments and Ocean History Panel, 1984-1988
JOIDES Advisory Panel on Organic Geochemistry, 1980-1983
ASLO Nominating Committee, 1978-1979 (Chair, 1979)
International Committee on Environmental Biogeochemistry, 1975-2000

UNIVERSITY AND DEPARTMENTAL SERVICE

Geological Sciences Faculty Award Nominations Coordinator, 2003-2006
Geological Sciences Student Ombudsman, 2004-2006
Geological Sciences Tenure Review Committee, 2005
Geological Sciences PhD Preliminary Exam Committee, 2004-2005
Geological Sciences Turner Post-Doc Selection Committee, 2003-2004
Geological Sciences Undergraduate Co-Advisor, 2001-2002
Geological Sciences Turner Research Grant Review Committee, 2001
College of Literature, Science, and the Arts Individual Concentration Program Committee, 1997-1999
Geological Sciences Graduate Admissions Committee, 1996-2003
University of Michigan Student Relations Advisory Committee, 1995-1998
Resolution Officer, College of Literature, Science, and the Arts Student Code of Conduct, 1996-1998
Geological Sciences Environmental Geology Undergraduate Advisor, 1995-2001
University Faculty Senate Assembly, 1994-1997
College of Literature, Science, and the Arts First-Year Seminar Committee, 1994-1996
College of Literature, Science, and the Arts Curriculum Committee, 1992-1994
Geological Sciences Laboratory Safety Officer, 1990-2002
Institute of Science and Technology Executive Committee, 1988-1989
Center for Great Lakes and Aquatic Sciences Executive Committee, 1985-1987; 1990
College of Literature, Science, and the Arts Student Grievance Panel, 1989-1990
University of Michigan Academic Affairs Advisory Committee, 1988-1990
University of Michigan Tenure Review Panel, 1988
University of Michigan Civil Liberties Board, 1988
Rackham Graduate School Academic Appeals Panel, 1985-1988
Geological Sciences Oceanography Undergraduate Advisor, 1985-2001
Atmospheric and Oceanic Sciences Executive Committee, 1980-1983
Atmospheric and Oceanic Sciences Oceanography Undergraduate Advisor, 1974-1985
College of Engineering Freshman Advisor, 1972-1974

OTHER IMPORTANT PROFESSIONAL ACTIVITIES

1. EDITORSHIP OF VOLUMES, PROCEEDINGS, AND SPECIAL ISSUES OF SCIENTIFIC JOURNALS

- Sifeddine, A., **P.A. Meyers**, F. da Cruz, J. Valdes, and P.L.D. da Silva (guest editors). 2014. Continental and Coastal Marine Records of Centennial to Millennial Changes in South American Climate since the Last Glacial Maximum, *Palaeogeography, Palaeoclimatology, Palaeoecology*, **415**, 1-240.
- Negri, A., A. Ferriti, T. Wagner, P. Storch, and **P.A. Meyers** (guest editors). 2009. Organic carbon rich sediment through the Phanerozoic: Processes, Progresses and Perspectives. *Palaeogeography, Palaeoclimatology, Palaeoecology*, **273**, 213-410.
- Negri, A., T. Wagner, and **P.A. Meyers** (guest editors). 2006. Causes and Consequences of Marine Organic Carbon Burial Through Time. *Palaeogeography, Palaeoclimatology, Palaeoecology*, **235**, 1-320.
- Meyers, P.A.**, and K. Kobayashi (guest editors). 2004. International Symposium on Environmental Biogeochemistry Special Issue, *Organic Geochemistry*, **35**:1081-1128.
- Meyers, P.A.**, and R. Halberg (guest editors). 2004. Microbes, Molecules, and Minerals – Geochemical Aspects of the Origin, Evolution, and Impacts of Life on Earth. *Ambio*, **33**:537-575.
- Meyers, P.A.**, and A. Negri (guest editors). 2003. Paleoclimatic and Paleoceanographic Records in Mediterranean Sapropels and Mesozoic Black Shales. Special Issue, *Palaeogeography, Palaeoclimatology, Palaeoecology*, **190**:1-480.
- Meyers, P.A.**, L.S. Pratt, and B. Nagy (guest editors). 1992. Geochemistry of metalliferous black shales. Special Issue; *Chemical Geology*, **99**:1-212.
- Prell, W.L., N. Niitsuma, K.-C. Emeis, and **P.A. Meyers** (editors). 1991. *Proceedings of the Ocean Drilling Program, Scientific Results*, **117**, Ocean Drilling Program, College Station, TX, 638 pages.
- Meyers, P.A.**, and L.V. Benson (guest editors). 1990. Paleoclimates: The record from lakes, ocean, and land. Special Issue; *Palaeogeography, Palaeoclimatology, Palaeoecology*, **78**:179-385.
- Meyers, P.A.**, and R.M. Mitterer (guest editors). 1986. Deep ocean black shales: Organic geochemistry and paleoceanographic setting. Special Issue; *Marine Geology*, **70**:1-174.
- Degens, E.T., **P.A. Meyers**, and S.C. Brassell (editors). 1986. *Biogeochemistry of Black Shales*. SCOPE/UNEP Publication 60, 421 pages.

2. ORGANIZATION OF WORKSHOPS AND SPECIAL SCIENTIFIC SESSIONS

- Special session on “Insights to the Modern and Palaeo Carbon Cycle: Isotopic and Biomarker Perspectives”, Fall AGU Meeting, San Francisco, December 3-7, 2012 (with Chris Brodie and James Casford)
- Special session on “Continental and Coastal Marine Records of Climate Changes in South America since the Last Glacial Maximum”, Fall AGU Meeting, San Francisco, December 3-7, 2012 (with Ana Luiza Albuquerque and Abdelfettah Sifeddine)
- Special session on “Oceanography and Paleoceanography of the Marine Upwelling Systems of South America”, AGU Meeting of the Americas, August 8-12, 2010, Foz do Iguacu, Brazil (with Abdelfettah Sifeddine)
- Special session on “Lake Sediment Reconstructions of Far East Climate and Tectonic Histories”, 30th Congress of the International Association of Theoretical and Applied Limnology, August 12-18, 2007, Montreal, QC (with Keiji Takemura)
- Special session on “Organic-Rich Marine Sediments Past, Present and Future – Oceans and Climate Feedbacks”, Annual Meeting of the European Geophysical Union, April 15-20, 2007, Vienna, Austria (with Alessandra Negri, Annalisa Ferretti, Thomas Wagner, and Petr Storch).
- Special sessions (two oral, one poster) on “Oceanic Anoxic Events: Current Understanding, Future Challenges”, 2006 AGU Meeting, San Francisco (with Karen Bice, Thomas Wagner, Darren Gröcke,
- Special session on “Marine and Continental Sedimentary Organic Geochemical Profiles as Records of Past Environmental Conditions”, 2006 ASLO Meeting, Victoria, BC (with Mark Yunker)
- Special session on “High-Resolution Sedimentary Records of Variations in Upwelling Systems”, 2005 AGU Meeting, San Francisco (with Abdelfettah Sifeddine)
- Special sessions (one oral, one poster) on “Sapropels and Black Shales”, 32nd International Geological Congress, August 22-27, 2004, Florence, Italy (with Alessandra Negri)
- Special sessions (one oral, one poster) on “Mesozoic Black Shales – Fresh Looks at an Old Problem”, 2003 AGU Meeting, San Francisco (with Kenneth MacLeod)

Special sessions (one oral, one poster) on “Paleoproductivity, Proxies, and Preservation: Records of Neogene Evolution of the Oceans”, 2003 AGU Meeting, San Francisco (with Liselotte Diester-Haass and Katherina Billups)

Special sessions (one oral, one poster) on “Mediterranean Sapropels and Their Relation to Global Climate Variations”, 2002 Goldschmidt Geochemistry Conference, Davos, Switzerland (with Gert de Lange, Hans Brumsack, and Judith McKenzie)

Oral session on “Organic Geochemical Paleoenvironmental Proxies and Reconstructions”, 2002 Gordon Research Conference on Organic Geochemistry, Plymouth, NH

Special sessions (one oral, one poster) on “Paleoclimate and Paleoceanographic Records in the Mediterranean Sea”, 2001 AGU Meeting, San Francisco (with Alessandra Negri)

Special sessions (one oral, one poster) on “Sedimentary Records from Semi-Isolated Basins: Amplified Paleoceanographic Histories”, 2000 AGU Meeting, San Francisco (with Timothy Herbert)

Workshop on “Evolution and Oscillation of Post-Miocene Mediterranean Climate”, Hanse-Wissenschaftskolleg, Delmenhorst, Germany, June 14-17, 2000

Special sessions (one oral, one poster) on “Evolution and Oscillation of Major Upwelling Systems”, 1999 AGU Meeting, San Francisco (with Beth Christiansen)

Geochemical Society Symposium on “Geochemistry of Metalliferous Black Shales”, 1990 GSA Annual Meeting, Dallas (with Lisa Pratt and Bart Nagy)

Symposium on “Paleolakes and Paleo-Oceans”, 1988 ASLO Meeting, Boulder (with Larry Benson)

Geochemical Society Symposium on “Deep Ocean Black Shales: Organic Geochemistry and Paleoceanographic Setting”, 1983 GSA Annual Meeting, Indianapolis (with Richard Mitterer)

3. INVITED DEPARTMENTAL SEMINARS (MOST RECENT 10 YEARS)

“An Organic Geochemical Perspective on Peatlands and Paleoclimate”, Department of Civil and Environmental Engineering and Earth Sciences, Notre Dame University, December 4, 2014.

“New Insights into Organic Matter Bulk Tracers in Ocean Sediments: C/N Ratios, N/C Ratios, and $\delta^{13}\text{C}$ Values: Instituto de Geoquímica, Universidad Federal Fluminense, Niteroi, Brazil, October 18, 2011.

“Paleoceanography, Pleistocene Sapropels, and Phanerozoic Black Shales – The Present is Not Always the Key to the Past”, Department of Earth and Planetary Sciences, Northwestern University, Evanston, November 11, 2011.

“Mediterranean Sapropels: Near-Modern Analogs of Mesozoic and Paleozoic Black Shales”, School of Earth Sciences, China University of Geosciences, Wuhan, China, March 22, 2011.

“Post-Glacial Changes in the Asian Monsoon System: Molecular and Isotopic Evidence from Peat Sequences”, Department of Geology, China University of Geosciences, Wuhan, China, March 23, 2011.

“Five Decades of Organic Geochemical Studies of Lake Sediments”, Department of Geology, China University of Geosciences, Wuhan, China, March 24, 2011.

“Alterations of Organic Matter During Settling and Sedimentation in Lakes”, Department of Geology, China University of Geosciences, Wuhan, China, March 25, 2011.

“Controls on Organic Matter Composition of Lake Sediments”, Department of Geology, China University of Geosciences, Wuhan, China, March 26, 2011.

“Organic Geochemical Records of Human Impacts on the Laurentian Great Lakes”, Department of Geology, China University of Geosciences, Wuhan, China, March 27, 2011.

“Post-Glacial Changes in the Asian Monsoon System: Molecular and Isotopic Evidence from Peat Sequences”, Department of Geology, Nanjing University, Nanjing, China, March 31, 2011.

“New Insights into Organic Matter C/N Ratios in Ocean Sediments”, Institute of Marine Geology and Geochemistry, National Sun Yat-Sen University, Kaohsiung, Taiwan, March 3, 2010

“Reconstruction of Post-Glacial Evolution of the Asian Monsoon System from Molecular and Isotopic Records in Peat Sequences”, Department of Geosciences, National Taiwan University, Taipei, Taiwan, February 26, 2010

“Biogeochemical Dynamics During Cultural Eutrophication of Lake Erie: Carbon and Nitrogen Isotope Sediment Records”, Institute of Earth Sciences, Academia Sinica, Taipei, Taiwan, February 25, 2010

“Mediterranean Sapropels: Near-Modern Analogs for Deposition of Mesozoic and Paleozoic Black Shales”, Department of Geological Sciences, University of Cincinnati, January 22, 2010

4. INVITED TALKS AT NATIONAL AND INTERNATIONAL MEETINGS (MOST RECENT 10 YEARS)

- “An Organic Geochemical Perspective on Peatlands and Paleoclimate”, Gordon Research Conference on Organic Geochemistry, Holderness, N.H., July 24, 2016.
- “Diagenesis of Organic Matter in Seawater and Sediments”, IODP Workshop on Paleooceanography of the Brazilian Equatorial Margin, Maresias, Brazil, February 4, 2014.
- “Delivery, Degradation, and Deposition of Organic Matter in the Coastal Zone”, V Programa de Geoquímica Ambiental, Universidade Federal Fluminense, Niteroi, Brazil, November 27, 2012.
- “Paleoenvironmental Interpretations of Organic Carbon Isotopes: Pearls and Perils”, Workshop on the Development of Isotopic Proxies for Palaeoenvironmental Interpretation: A Carbon Perspective (DIPPI-C), Durham University, UK, May 8-10, 2012.
- “Responses of South American Upwelling Systems to Global and Local Forcings During the Quaternary”, Keynote address at XIII Congresso da Associação Brasileira de Estudos do Quaternário. Buzios, Brazil, October 10, 2011.
- “Environmental Geochemistry – Today and Tomorrow”, III Programa de Geoquímica Ambiental, Universidade Federal Fluminense, Niteroi, Brazil, December 3, 2010.

PARTICIPATION AS SHIPBOARD ORGANIC GEOCHEMIST ON ODP/DSDP CRUISES

- Leg 207, Demerara Rise, January 12 (Bridgetown, Barbados) to March 6, 2003 (Rio de Janeiro, Brazil)
- Leg 175, Congo River Cone and Benguela Current, August 9 (Las Palmas, Gran Canaria) to October 8, 1997 (Capetown, South Africa)
- Leg 161, Western Mediterranean Sea, May 3 (Naples, Italy) to July 2, 1995 (Edinburgh, Scotland)
- Leg 149, Iberia Abyssal Plain, March 28 (Ponta Delgada, Azores) to May 25, 1993 (Lisbon, Portugal)
- Leg 122, Exmouth Plateau, June 28 (Singapore) to August 28, 1988 (Singapore)
- Leg 93, Hatteras Rise, May 4 (Norfolk, VA) to June 17, 1983 (Norfolk, VA)
- Leg 75, Cape Basin and Walvis Ridge, July 27 (Walvis Bay, South Africa) to September 6, 1980 (Recife, Brazil)

EDUCATIONAL ACTIVITIES

1. POSTDOCTORAL FELLOW SPONSORSHIP

- Dr. Jong-Gwon Yum, Korean Science Foundation Postdoctoral Fellow, August 2004 to April 2006, Organic Geochemical Reconstruction of Paleoclimatic and Paleooceanographic Conditions during Deposition of Cenomanian-Turonian Black Shales

2. PH.D. STUDENTS

- 2008, Yuehan Lu, “Evaluation of Organic Geochemical Proxies in Sediments as Recorders of the History of Biogeochemical Dynamics in Lake Erie over the Last Century”
- 2006, Michela Arnaboldi, “Late Pliocene Geochemical Paleoclimate Records in Mediterranean Sapropels”
- 2001, Rebecca S. Robinson, “Variations in Pliocene-Pleistocene Paleoproductivity in the Benguela and California Upwelling Systems”
- 1998, James E. Silliman, “Origins and Diagenesis of Organic Compounds in Freshwater and Marine Sediments”
- 1993, Keith W. Dunham, “Petroleum Evolution in the Michigan Basin: An Organic Geochemical Approach”
- 1993, Jeffrey L. Mauk, “Geologic and Geochemical Investigations of the White Pine Sediment-Hosted Stratiform Copper Deposit, Ontonagon County, Michigan”
- 1991, Thomas H. Johengen, “Saline Valley Best Management Practices”
- 1990, Richard M. Kettler, “Organic Matter in Hydrothermal Systems: Implications for Fluid Chemistry and Source”
- 1981, Mary J. Leenheer, “Use of Lipids as Indicators of Diagenetic and Source-Related Changes in Holocene Sediments”
- 1979, Richard A. Bourbonniere, “Geochemistry of Humic Matter in Holocene Great Lakes Sediments”

3. M.S. STUDENTS

- 2003, Christina Knowlton, "Molecular and Isotopic Paleoenvironmental Proxies in Lake Erie Sediments"
- 2002, Michela Arnaboldi, "Geochemical Evidence for Paleoclimatic Variations during Deposition of Two Late Pliocene Sapropels from the Vrica Section, Calabria"
- 2001, Shannon C. Twichell (née Bauman), "Paleoproductivity History of the Benguela Current"
- 1995, Elizabeth A. Kowalski, "Glacial-Interglacial Cycles in Deep-Sea Sediments"
- 1995, Gabrielle E. Tenzer, "Organic Matter Records of Historical Changes in Lake Ecosystems"
- 1991, Eileen S. Ho, "Organic Geochemistry of the Nonesuch Formation"
- 1985, Pamela L. Dunham, "Organic Geochemistry of Cretaceous Black Shales, Atlantic Ocean"
- 1985, Sushiel Keswani, "Organic Geochemistry of Late Cenozoic South Atlantic Sediments"
- 1980, Orest Kawka, "Fractionation of Hydrophobic Organic Matter in Surface Microlayers"
- 1980, Karen Erstfeld, "The Surface Microlayer – An Agent for Air/Water Exchange of PCBs and Other Pollutants"
- 1978, Terry Oas, "Clay-Hydrocarbon Associations in Seawater"
- 1978, Norishige Takeuchi, "Geolipid Records of Environmental Change in Holocene Lake Sediments"
- 1977, Halyna Iwasiuk, "Organic Geochemistry of Lake Huron Sediments"
- 1976, Barbara Westrum, "Organic Carbon Exchange in Coral Reef Ecosystems"
- 1976, Judy Barak, "Ecological and Taxonomic Patterns of Fatty Acids in Corals"

4. EXTERNAL DISSERTATION COMMITTEES

- 2012, External member of "*Effects of Climate Change on Delivery and Degradation of Organic Matter in a Holocene Peat Sequence in the Eastern European Russian Arctic*", PhD Dissertation of Rina Argelia Andersson, Department of Geological Sciences, Stockholm University.
- 2012, External reviewer of "*Characterization and Economic Potentiality of Oil Shales in Al-Quseir and Abu Tartur Areas, Egypt*", PhD thesis of Moataz Adel El-Shafeiy, Geology Department, Cairo University, Egypt.
- 2013, External juror at defense of "*Organic Carbon and Nitrogen Isotopes of the Palaeocene-early Eocene: Implications on Stratigraphy, Paleoenvironment and Paleoclimatology*", PhD thesis of Jean-Yves Storme, Department of Geology, University of Namur, Belgium.
- 2015, Invited juror at defense of "*Tester les isotopes stables de l'azote des matières organiques fossiles terrestres comme marqueur paléoclimatique sur des séries pré-quaternaires*", PhD thesis of Romain Tramoy, Université Pierre et Marie Curie, Paris, France.
- 2016, External examiner of "*Bulk geochemical, biomarker and leaf wax isotope records of Mfabeni peatland, KwaZulu Natal, since the late Pleistocene*", PhD thesis of Andrea Baker, Stellenbosch University, South Africa.
- 2017, External examiner of "*Spatial and Temporal Variations in the Geometry and Composition of the Permian Whitehill Formation, South Africa*", PhD thesis of Kenneth Chukwuma, University of Cape Town, South Africa.
- 2019, External examiner of "*Comparative organic geochemical studies on some Miocene and Cretaceous rock units at the October Oil Field, Gulf of Suez*", MSc thesis of Ismail Hussein, Cairo University, Egypt.

TOPICAL BIBLIOGRAPHY

Total of 273 peer-reviewed publications; H factor: 56; total citations: 20,548 as of 1 September 2021
[Scientific Syntheses and Overview Papers \(33\)](#)

Meyers, P.A., 2021. Perspectives on my Career in Organic Geochemistry. Perspectives of Earth and Space Scientists 10.1029/2020CN000141.

Huang, X., and **P.A. Meyers**. 2019. Assessing paleohydrologic controls on the hydrogen isotope compositions of leaf wax *n*-alkanes in Chinese peat deposits. *Palaeogeography, Palaeoclimatology, Palaeoecology*. 516, 354-363.

Meyers, P.A., 2014. Why are the $\delta^{13}\text{C}_{\text{org}}$ values in Phanerozoic black shales more negative than in modern marine organic matter? *Geochemistry, Geophysics, Geosystems*. 15, 3085-3106.

- Algeo, T.J., **P.A. Meyers**, R.S. Robinson, H. Rowe, and G. Jiang. 2014. Icehouse-greenhouse variations in marine denitrification. *Biogeosciences*, 11,1273-1295.
- Meyers, P.A.**, 2008. Organic geochemical proxies. In: V. Gornitz (Ed.), *Encyclopedia of Paleoclimatology and Ancient Environments*. Dordrecht (Kluwer Press). Pp. 656-662.
- Meyers, P.A.**, 2006. An overview of sediment organic matter records of human eutrophication in the Laurentian Great Lakes region. *Water, Air, and Soil Pollution: Focus*, 6: 453-463.
- Meyers, P.A.**, 2006. Paleoceanographic and paleoclimatic similarities between Mediterranean sapropels and Cretaceous black shales. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 235: 305-320.
- Meyers, P.A.**, 2003. Applications of organic geochemistry to paleolimnological reconstructions: A summary of examples from the Laurentian Great Lakes. *Organic Geochemistry*, 34:261-289.
- Meyers, P.A.**, 2002. Impacts of climate change on the Great Lakes basin: Perspectives from the past and prospects for the future. Michigan Sea Grant Program website.
- Meyers, P.A.**, and J.L. Teranes. 2001. Sediment organic matter. In: W.M. Last and J.P. Smol (Eds.), *Tracking Environmental Changes Using Lake Sediments – Volume 2: Physical and Chemical Techniques*. Dordrecht (Kluwer Press). Pages 239-269.
- Meyers, P.A.**, and E. Lallier-Vergès. 1999. Lacustrine sedimentary organic matter records of late Quaternary paleoclimates. *Journal of Paleolimnology*, 21:345-372.
- Bouloubassi, I., J. Rullkötter, and **P.A. Meyers**. 1999. Origin and transformation of organic matter in Pliocene-Pleistocene Mediterranean sapropels: Organic geochemical evidence reviewed. *Marine Geology*, 153:177-197.
- Meyers, P.A.** 1998. Early Holocene climate instability in Japan: Organic geochemical evidence in sediment cores from Lake Biwa, Lake Kizaki, and the Japan Sea. *Journal of Asian Earth Sciences*, 16:77-83.
- Meyers, P.A.** 1997. Organic geochemical proxies of paleoceanographic, paleolimnologic, and paleoclimatic processes. *Organic Geochemistry*, 27:213-250.
- Meyers, P.A.** 1997. Laminites, sapropels, and Pliocene-Pleistocene climate changes in the Mediterranean Basin. *Giornale di geologia*, 59:201-216.
- Meyers, P.A.**, and R. Ishiwatari. 1995. Organic Matter Accumulation Records in Lake Sediments. In: A. Lerman, D. Imboden, and J. Gat (editors), *Physics and Chemistry of Lakes (Second Edition)*, Berlin (Springer Verlag), Pages 279-328.
- Meyers, P.A.** 1994. Preservation of elemental and isotopic source identification of sedimentary organic matter. *Chemical Geology*, 114:289-302.
- Meyers, P.A.**, and R. Ishiwatari. 1993. Lacustrine organic geochemistry - An overview of indicators of organic matter sources and diagenesis in lake sediments. *Organic Geochemistry*, 20:867-900.
- Meyers, P.A.**, and R. Ishiwatari. 1993. Early diagenesis of organic matter in lake sediments. In: M. Engel and S. Macko (editors), *Organic Geochemistry*, New York, N.Y. (Plenum), Pages 185-209.
- Meyers, P.A.**, and G.R. Dickens. 1992. Origin and accumulation of organic matter in Mesozoic and Cenozoic Indian Ocean sediments: A synthesis of the results of scientific ocean drilling. In: R.A. Duncan, D.K. Rea, R.B. Kidd, U. von Rad, and J.K. Weissel (editors), *Synthesis of Results from Scientific Drilling in the Indian Ocean*. Washington, DC (AGU), Pages 295-309.
- Meyers, P.A.** 1989. Sources and deposition of organic matter in passive margin deep-sea sediments: A synthesis of studies from Deep Sea Drilling Project Site 603, outer Hatteras Rise. *Marine and Petroleum Geology*, 6:182-189.

Meyers, P.A. 1987. Chronic contamination of lakes by petroleum hydrocarbons: The sedimentary record. In: J.H. Vandermuelen and S.E. Hrudy (editors), *Oil and Freshwater: Chemistry, Biology, Countermeasure Technology*, Pergamon Press (Toronto). Pages 149-160.

Meyers, P.A. 1987. Synthesis of organic geochemical studies, DSDP Leg 93, North American Continental Margin. In: J.E. van Hinte, S.W. Wise et al., *Initial Reports of the Deep Sea Drilling Project, 93*, Washington, D.C. Pages 1333-1342.

Simoneit, B.R.T., C.P. Summerhayes, and **P.A. Meyers**. 1986. Sources and hydrothermal alteration of organic matter in Quaternary sediments: A synthesis of studies from the central Gulf of California. *Marine and Petroleum Geology*, 3:282-297.

Meyers, P.A. 1984. Organic geochemistry of sediments from the Angola Basin and the Walvis Ridge: A synthesis of studies from Deep Sea Drilling Project Leg 75. In: W.W. Hay, J.-C. Sibuet et al., *Initial Reports of the Deep Sea Drilling Project, 75*, Washington, D.C. Pages 459-467.

Meyers, P.A. 1984. Petroleum contaminants in the Great Lakes. In: J.O. Nriagu and M.S. Simmons (editors), *Toxic Contaminants in the Great Lakes*, Wiley. Pages 147-162.

Simoneit, B.R.T., C.P. Summerhayes, and **P.A. Meyers**. 1982. Sources, preservation and maturation of organic matter in Pliocene and Quaternary sediments of the Gulf of California: A synthesis of organic geochemical studies from DSDP/IPOD Leg 64. In: J.R. Curray, D.G. Moore, et al., *Initial Reports of the Deep Sea Drilling Project, 64*, Washington, D.C. Pages 939-951.

Simoneit, B.R.T., **P.A. Meyers**, and C.P. Summerhayes. 1981. Sources, preservation, maturation, and migration of organic matter in Neogene sediments from the continental margin off California and Baja California: Synthesis of organic geochemical studies from DSDP Leg 63. In: B. Haq, R. Yeats, et al., *Initial Reports of the Deep Sea Drilling Project, 63*, Washington, D.C. Pages 943-948.

Rea, D.K., R.M. Owen, and **P.A. Meyers**. 1981. Sedimentary Processes in the Great Lakes. *Reviews of Geophysics and Space Physics*, 19:635-648.

Meyers, P.A. 1976. Sediments - sources or sinks of petroleum hydrocarbons? In: *Proceedings, Symposium on Sources, Effects, and Sinks of Hydrocarbons in the Aquatic Environment*, American Institute of Biological Sciences. Pages 309-324.

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