

Hilary Clement Olson

Research Scientist Associate V, Institute for Geophysics
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EDUCATION

STANFORD UNIVERSITY, Stanford, California.

Ph.D. in Geology, June 1988.

Advisors: James C. Ingle and Stephan A. Graham

Dissertation: "Middle Tertiary stratigraphy, depositional environments, paleoecology and tectonic history of the southeastern San Joaquin basin, California"

UNIVERSITY OF NOTRE DAME, Notre Dame, Indiana.

B.S. in Earth Sciences, cum laude, May 1983.

UNIVERSITÉ CATHOLIQUE DE L'OUEST, Angers, France.

Diplôme de Langue Française, mention honorable, May 1981.

CURRENT POSITIONS

THE UNIVERSITY OF TEXAS AT AUSTIN, Institute for Geophysics, Austin, Texas.

Research Scientist Associate V (since 2007)

Description: Raise external funds to maintain and advance research and outreach programs with special emphasis on biostratigraphy and paleoenvironmental studies, carbon sequestration and K-12 Earth Science education.

THE UNIVERSITY OF TEXAS AT AUSTIN, Department of Petroleum and Geosystems Engineering, Austin, TX.

Adjunct Professor, Course: *Geological Concepts for Engineers*, Jan-May, 2011.

CURRENT RESEARCH PROJECTS

STORE (Sequestration Training, Outreach, Research and Education) Alliance

As Project Director and co-PI for STORE, Olson is working with the Petroleum and Geosystems Engineering Department and the Bureau of Economic Geology at UT Austin. STORE will use the grant to help create a skilled workforce for the emerging

carbon capture and storage industry and to build public awareness of the technology's benefits to society, including teacher professional development. For more information: www.storeco2now.com.

Sponsor: National Energy Technology Laboratory, Department of Energy

TeXas Earth and Space Science (TXESS) Revolution

In her role as a co-PI for the TXESS (TeXas Earth and Space Science) Revolution program, Olson is responsible for assisting with professional development in Earth and Space Science throughout the state of Texas. With funding from the National Science Foundation, the Texas Regional Collaboratives and the Jackson School of Geosciences, the project is focused on serving minority teachers and minority-serving teachers across the state. Working with the Texas Regional Collaboratives and GeoForce Texas at The University of Texas at Austin, the program intends to impact 3,500 teachers and over 6,000 students over the five-year project. For more information:

www.txessrevolution.org.

Sponsor: National Science Foundation, Opportunities for Enhancing Diversity in the Geosciences

Gulf Intraslope Basins Project (GIB)

As PI for the Gulf Intraslope Basins (GIB) Project at UTIG, Olson applies foraminiferal analysis techniques to study the latest Quaternary depositional processes and faunas of the intraslope basins of the Gulf of Mexico. Using a high-resolution data set composed of piston cores and 3.5 kHz and airgun seismic data, Olson and her colleagues (John Damuth and Hans Nelson) are looking at depositional styles in the Gulf of Mexico in relationship to glacial and interglacial periods.

Sponsor: Industry Consortium

Gulf Basin Depositional Synthesis (GBDS)

As part of the Gulf Basin Depositional Synthesis (GBDS) team, Olson is responsible for incorporating biostratigraphic data into the overall stratigraphic framework of the project.

Sponsor: Industry Consortium

PROFESSIONAL EXPERIENCE

ACADEMIC RESEARCH AND TEACHING

THE UNIVERSITY OF TEXAS AT AUSTIN, Institute for Geophysics, Austin, TX.

Research Scientist Associate V, May, 2007-present.

Research Associate, September, 1998- May, 2007.

Research Fellow, June, 1996-August, 1998.

HUSTON-TILLOTSON University, Austin, Texas

Lecturer-Special Topics in the Geosciences, Jan-May, 2006, as part of an NSF funded diversity grant.

THE UNIVERSITY OF TEXAS AT AUSTIN, Department of Geological Sciences,
Austin, Texas.

Lecturer-Sequence *Biostratigraphy*, January-May, 1996.

Visiting Scholar, 1995-1997.

INDUSTRY/PETROLEUM CONSULTING

STRATIGRAPHIC CONSULTANT, Dallas and Austin, Texas,
1993-1998.

Responsibilities:

Consulting in sequence stratigraphy and biostratigraphy - short courses for various petroleum companies and universities. (clients: Universidade Federal do Rio de Janeiro, Petrobras, BP, Conoco Phillips, China National Petroleum Corporation, University of Texas at Arlington)

MOBIL RESEARCH AND DEVELOPMENT CORPORATION, Dallas, Texas.
Research Geologist and Staff Geologist, October 1990-August 1993.

Major responsibilities:

Project leader for research in paleontology and stratigraphy; coordinator for Mobil course on sequence stratigraphy in London; instructor for Mobil in-house courses in sequence stratigraphy.

Senior Staff Geologist, October 1988-October 1990.

Major responsibilities:

Research in paleontology and stratigraphy; instructor for Mobil in-house courses in sequence stratigraphy; university recruiting.

Summer intern in Stratigraphic Services Group, Summer 1987.

Project supervisor: Jim Cooke

Project responsibilities:

Stratigraphic analysis of the Frio Formation, Matagorda County, Texas, including statistical biostratigraphic analysis, sequence stratigraphic analysis and seismic facies analysis.

ARCO RESOURCES TECHNOLOGY, Plano, Texas.

Summer intern in Biostratigraphy Research Group, Summer 1985.

Project supervisor: Peter Thompson and Martin Lagoe

Project responsibilities:

Stratigraphic analysis of the Monterey Formation, Salinas Valley, California, integrating biostratigraphic data and well-log data.

J. FRED CLEMENT, CONSULTANT, Dallas, Texas.

Summer consulting job, Summer 1984.

Supervisor: J.Fred Clement

Project responsibilities:

Assistance with compiling a Tertiary biostratigraphic catalogue of foraminifera for ARCO Resources Technology.

COMPUTECH ENERGY AND EXPLORATION, Dallas, Texas.

Summer geotechnical job, Summer 1983.

Responsibilities:

Data processing and construction of cross-sections, West Texas.

MARK A. CLEMENT, CONSULTANT, Dallas, Texas.

Summer geotechnical job, Summer 1983.

Responsibilities: Data processing.

PROFESSIONAL SOCIETIES

SOCIETY AFFILIATIONS

North American Micropaleontological Section, SEPM

Gulf Coast Section SEPM

American Association of Petroleum Geologists

American Geophysical Union

PROFESSIONAL ACTIVITIES

DIG: Diversity and Innovation for Geosciences in Texas

Invited Participant, 2011, Houston, Texas.

International Energy Agency, Greenhouse Gas R&D Programme, Monitoring

Network Meeting

Member, Organizing Committee, 2010, Natchez, Mississippi.

Gulf Coast Section Society of Economic Paleontologists and Mineralogists, Texas.

Business Representative, 1997-present, Austin, Texas.

Associate Editor, Transactions v.XLIV, 1994, Austin, Texas.

Conference Cochair, Foundation Research Conference, 1993, "Rates of Geologic Processes," Houston, Texas.

Program Advisory Committee Member, Foundation Research Conference, 1990, "Sequence Stratigraphy as an Exploration Tool: Concepts and Practices in the Gulf Coast," Houston, Texas.

North American Micropaleontological Section, SEPM, Past-President 2000-2001;

President 1999-2000; **President-Elect** 1998-1999; **Secretary** 1994-1998.

American Association of Petroleum Geologists, Tulsa Oklahoma.

Education Committee, 1992-2000.

Session Co-Chair, "Integrated Stratigraphic Studies: Techniques for Better Spatial and Temporal Resolution," *AAPG 2001 Annual Meeting*, Denver, CO.

Session Co-Chair, "Testing and calibrating the Sequence Stratigraphic model," *AAPG 2000 Annual Meeting*, New Orleans, LA.

Session Co-Chair, "Paleobiological, Geochemical and Other Proxies of Sea-Level Change," *AAPG 1999 Annual Meeting*, San Antonio, Texas.

Short Course Instructor, "Sequence Biostratigraphy," 1994.

Field Trip Leader, San Joaquin Valley, AAPG Annual Convention, San Francisco, California, 1990.

FORAMS 1994 International Meeting, Berkeley, California.

Short Course Instructor, "Sequence Biostratigraphy."

FORAMS 1998 International Meeting, Monterrey, Mexico.

Short Course Instructor, “Seismic Stratigraphy” and “Sequence Biostratigraphy.”
Session Co-Chair, “Innovative Applications of Biostratigraphy to Sequence Stratigraphy.”
Dallas Geological Society Scholarship Committee, Dallas, Texas.
Chair, 1991-1995.
Committee Member, 1989-1991.
Geological Society of America Penrose Conference, Oxnard, California.
Participant, "The Miocene Reconstruction of Southern California," 1986.

AWARDS AND HONORS

North American Micropaleontological Section, SEPM, Elected President, 1999.
Distinguished Lecturer, Ocean Drilling Program, 1998-1999.
Dallas Geological Society Public Service Award, 1995, Dallas, Texas.
Third Place Best Student Paper Contest, 1987, National American Association of Petroleum Geologists Meeting, Los Angeles, California.
Geological Society of America, Penrose Conference Grant, 1986.
Stanford Geology Graduate Committee Commendation, 1984, Stanford University.
Raymond C. Gutschick Award (for excellence in undergraduate research), 1983, University of Notre Dame.

SCIENTIFIC CRUISES

Marion Dufresne, JOI-ONR Funding, 1999, Calypso Coring for Stratigraphic Research, New Jersey Margin, *Paleontologist*, *3.5kHz Seismic Data Collection*.
Onrust, NSF Funding, 1998, Grab Sampling to Calibrate Geophysical Signals, New Jersey Margin, *Paleontologist*.
Joides Resolution, Ocean Drilling Program, Leg 174A, 1997, Stratigraphic Objectives, New Jersey Margin, *Paleontologist*.

RECENT TEXTBOOK ACTIVITIES

Holt McDougal (a division of Houghton Mifflin Harcourt Company), content reviewer HMH Science Florida © 2012 - middle school, HMH National Fusion - middle school (2009-2011)
Petroleum Extension Services (PETEX) (The University of Texas at Austin), content reviewer online educational modules in Petroleum Geology (2010)

RECENT OUTREACH ACTIVITIES (2008-2011)

Boy Scouts of America: Hornaday Weekend twice a year (Geology Merit Badge Counselor);
UT Explore: workshop and booth presenter 2008-current;
Lady Bird Johnson Wildflower Center, *Women in Science* presenter, 2009-current;
Bracketville High School, Bracketville, TX: workshop on petroleum energy project, fall 2008;
Rio Grande Valley Science Association, Donna, TX: *Engaging Girls in Science Summer Camp*, Earth Sciences workshop, June, 2009;
Ursuline Academy, Dallas, Texas: Science/Math/Technology Building Committee Member, (2008-2009); Keynote Speaker, “Girls and STEM Education”, for President’s Fundraising Dinner (April, 2008)

PUBLICATIONS

Accepted:

Ellins, Kathy, and Hilary C. Olson, Enhancing Geoscience Education within a Minority-Serving Teacher Population, *Journal of Geoscience Education*.

Edited Books:

Olson, H.C., and R.M., Leckie, eds., 2003, *Micropaleontological Proxies for Sea-Level Changes and Stratigraphic Discontinuities*, SEPM Special Publication 75, 383pp (UTIG #1677).

Armentrout, J.M., Bloch, R.B., Olson, H.C., and B.F. Perkins, eds., 1993, *Rates of Geologic Processes, Tectonics, Sedimentation, Eustasy and Climate, Implications for Hydrocarbon Exploration*, GCSSEPM Foundation Research Conference, 306p.

Publications:

Olson, Hilary C., and John E. Damuth, 2009, Character, Distribution and Timing of Latest Quaternary Mass-Transport Deposits in Texas-Louisiana Intraslope Basins Based on High-Resolution (3.5 kHz) Seismic Facies and Piston Cores, in D. Mosher et al., eds., *Submarine Mass Movements and Their Consequences*, Advances in Natural and Technological Hazards Research, Volume 28, Springer Science+Business Media, p. 607-617.

Olson, H.C., and P.R. Thompson, 2005, Sequence biostratigraphy with examples from the Plio-Pleistocene and Quaternary, in Koutsoukos, E. A. M., ed., *Applied Stratigraphy*, Kluwer Academic/Plenum Publishers, New York, p. 229-245 (UTIG #1553).

- Goff, J. A., J. A. Austin, S. Gulick, S. Nordfjord, B. Christensen, C. Sommerfield, H. Olson, and C. Alexander, 2005, Recent and modern marine erosion on the New Jersey outer shelf, *Marine Geology*, 216, 275-296.
- Goff, J. A., L. A. Mayer, P. Traykovski, I. Buynevich, R. Wilkens, R. Raymond, G. Glang, R. L. Evans, H. Olson, and C. Jenkins, 2005, Detailed investigation of sorted bedforms, or 'rippled scour depressions', within the Martha's Vineyard Coastal Observatory, Massachusetts, *Continental Shelf Research*, 25, 461-484.
- Olson, H.C., and C. Smart, 2004, Pleistocene climatic history reflected in planktonic foraminifera from ODP Site 1073 (Leg 174A), New Jersey margin, NW Atlantic Ocean, *Marine Micropaleontology* v. 51, p. 213-218 (UTIG #1658).
- Goff, J. A., B. J. Kraft, L. A. Mayer, S. G. Schock, C. K. Sommerfield, H. C. Olson, S. P. S. Gulick, and S. Nordfjord, 2004, Seabed characterization on the New Jersey middle and outer shelf: Correlability and spatial variability of seafloor sediment properties, *Marine Geol.*, 209, 147-172.
- Olson, H. C., A. Gary, and G. Jones, 2003, Similarity curves as indicators of stratigraphic discontinuities, in *Micropaleontological Proxies for Sea-Level Changes and Stratigraphic Discontinuities*, edited by H. C. Olson and R. M. Leckie, SEPM Special Publication 75, p. 89-96 (UTIG # 1550).
- Olson, H.C., and R.M. Leckie, 2003, Micropaleontological Proxies for Sea-Level Changes and Stratigraphic Discontinuities: Preface, in *Micropaleontological Proxies for Sea-Level Changes and Stratigraphic Discontinuities*, edited by H. C. Olson and R. M. Leckie, SEPM Special Publication 75, p. 1-4 (UTIG #1659).
- Leckie, R. M., and H. C. Olson, 2003, Foraminifera as proxies of sea-level change on siliciclastic margins, in *Micropaleontological Proxies for Sea-Level Changes and Stratigraphic Discontinuities*, SEPM Special Publication 75, p. 5-20 (UTIG #1588).
- Damuth, J. E. and H. C. Olson, 2002, Neogene-Quaternary contourite and related deposition on the West Shetland Slope and Faeroe-Shetland channel revealed by high-resolution seismic studies, *Mar. Geophys. Res.*, 22, 369-399 (UTIG #1620).
- Savrda, C.E., H.Krawinkel, F.M.G. McCarthy, C.M.G. McHugh, H.C. Olson, and G. Mountain, 2001, Ichnofabrics of a Pleistocene slope sequence, New Jersey margin: Relations to climate and sea-level dynamics, *Palaeogeography, Palaeoclimatology and Palaeoecology*, v. 171, no. 1-2, p. 41-61 (UTIG #1551).
- McHugh, C. M. G., and H. C. Olson, 2001, Pleistocene chronology of continental margin sedimentation: New insights into traditional models, New Jersey, *Marine Geology*, 186, 389-411, (UTIG #1552).
- Olson, H.C., Damuth, J.E., Ganey-Curry, P.E., and G. Moss, 2000, Intraslope basins reveal U.S. Gulf of Mexico secrets, *Offshore*, v. 6, p. 112-114 (UTIG #1531).

- Goff, J.A., Olson, H.C. and C. S. Duncan, 2000, Correlation of sidescan backscatter intensity with grain-size distribution of shelf sediments, New Jersey margin, *Geo-Marine Letters*, v. 20, p. 43-49 (UTIG #1499).
- Goff, J.A., Olson, H., Schuur, C.L., Moss, G., and J.A. Austin, Jr., 1999, Does grain size determine acoustic backscatter on the New Jersey continental shelf? *JOI newsletter*, v. 12, no. 2, p. 1-3.s
- Marsaglia, K.M., Mann, P., Hyatt, R.J. and H.C. Olson, 1999, Evaluating the influence of aseismic ridge subduction and accretion (?) on the detrital modes of forearc sandstone: an example from the Kronotsky Peninsula in the Kamchatka Forearc, *Lithos*, v. 46, p. 17-42 (UTIG #1388).
- Buck, K., Olson, H.C., and J.A. Austin, 1999, Paleoenvironmental evidence for latest Pleistocene sea-level fluctuations on the New Jersey outer continental shelf: Combining high-resolution sequence stratigraphy and foraminiferal analysis, *Marine Geology*, v. 154, p. 287-304 (UTIG #1303).
- Lagoë, M.B., Davies, T., Austin, J. A., and H.C. Olson, 1997, Foraminiferal constraints on very high-resolution seismic stratigraphy and late Quaternary glacial history, New Jersey continental shelf, *Palaios*, v. 12, p. 249-266 (UTIG #1225).
- Olson, H.C., 1996, Foraminifera in the middle school classroom, in Scotchmoor, J., and F.K. McKinney (eds.), *Learning from the Fossil Record: Paleontological Society Papers 2*, p. 247-261.
- Mitchell, S.M., Beamish, G.W.J., Wood, M.V., Malacek, S.J., Armentrout, J.M., Damuth, J.E., and H.C. Olson, 1993, Paleogene sequence stratigraphic framework of the Faeroe Basin, in Parker, J.R. (ed.) *Petroleum Geology of Northwest Europe: Proceedings of the 4th Conference*, Geological Society, London, p. 1011-1023.
- Damuth, J.E., and H.C. Olson, 1993, Preliminary observations of Neogene-Quaternary depositional processes in the Faeroe-Shetland Channel revealed by high-resolution seismic facies analysis, in Parker, J.R. (ed.) *Petroleum Geology of Northwest Europe: Proceedings of the 4th Conference*, Geological Society, London, p. 1035-1045.
- Olson, H.C., 1990, Early and middle Miocene foraminiferal paleoenvironments, southeastern San Joaquin Basin, California, *Journal of Foraminiferal Research*, v. 20, no. 4, p. 289-311.
- Bloch, R. B., and H.C. Olson, 1990, Stratigraphy and structural history of the Lower and Middle Miocene Section, eastside San Joaquin Valley, in Kuespert, J. G. and S. A. Reid, eds., 1990, *Structure, stratigraphy and hydrocarbon occurrences of the San Joaquin Basin, California*, p. 287-291.

- Olson, H.C., 1988, *Middle Tertiary stratigraphy, depositional environments, paleoecology and tectonic history of the southeastern San Joaquin basin, California*, Stanford University Ph.D. Dissertation, 351p.
- Olson, H.C., 1988, Oligocene-middle Miocene depositional systems north of Bakersfield, California: Eastern basin equivalents of the Temblor Formation, in Graham, S. A. ed., 1988, *Studies of the geology of the San Joaquin basin*, Pacific Section, Society of Economic Paleontologists and Mineralogists, v. 60, p. 189-205.
- Olson, H.C., 1988, Significance of variations within the Walker Formation north and south of the Bakersfield arch, San Joaquin basin, California, in Filewicz, M. V., and Squires, R. L., eds., 1988, *Paleogene Stratigraphy, West Coast of North America*, Pacific Section, Society of Economic Paleontologists and Mineralogists, West Coast Paleogene Symposium v. 58, p. 167-181.
- Olson, H.C., Miller, G.E., and J.Alan Bartow, 1986, Stratigraphy, paleoenvironment and depositional setting of Tertiary sediments, southeastern San Joaquin basin, *1986 Guidebook Pacific Section American Association of Petroleum Geologists meeting*, Bakersfield, California, p.18-54.
- Olson, H.C., and B.J. Welton, 1986, Foraminifera and fishes of Tertiary units in the Bakersfield, California area, *1986 Guidebook Pacific Section American Association of Petroleum Geologists meeting*, Bakersfield, California, p.47-49.
- Clement, M. A., Olson, H.C., and J.E. Olson, 1986, Oil and gas economic analysis with Lotus 1-2-3, *Geobyte* v. 1, no.2, p. 32-36.
- Olson, H.C., 1985, Miocene Molluscan guide, San Joaquin Valley: Geologic ranges, habitats, geographic ranges, formations, taxonomic updates and references, in Graham, Steve A., 1985, *Geology of the Temblor Formation, Western San Joaquin Basin, California: Pacific Section S.E.P.M.*, V. 44, p. 121-177.

Magazine Articles:

- Bush, R., and Hilary Clement Olson, 2011, GirlTalk Science Expo Encourages STEM Careers for Young Girls, *Momentum*, February/March 2011, p. 44-45
- Olson, Hilary Clement, 2009, GIRLS: An Untapped Resource for Filling America's Needs in Science, Technology, Engineering and Math Careers, *Logos*, Dallas, Texas.

ABSTRACTS/PRESENTATIONS

- Olson, H.C., Ellins, K.K., Snow, E., Bryant, S.L., Olson, J.E. Olson, Comer, C.C., Willis, M., Odell, M., Stocks, E., 2010, Climate Literacy Initiatives as part of the TXESS (TeXas Earth and Space Science) Revolution Program, AGU Annual Meeting.
- Ellins, K.K., Olson, H.C., Snow, E., Odell, Michael, Stocks, E.L., and Willis, M., 2010, The impact of the TeXas Earth and Space Science Revolution, GSA Annual Meeting.
- Ellins, K.K., Olson, H.C., Snow, E., Peart, L., Goehring, L., Olds, S., Eriksson, S., 2010, Strengthening Pathways to Diversity Through Geoscience Professional Development for Minority-Serving K-12 Science Educators: The TXESS Revolution, Ocean Sciences meeting.
- Nelson, C.H., Damuth, J.E., Olson, H.C., Escutia, C., 2010, Factors controlling modern abyssal fan architecture in the Gulf of Mexico and Implications for Paleogene to Miocene Petroleum Plays: 2010 AAPG Annual Convention and Exhibition Abstracts.
- Olson, H.C., Olson, J.E., Bryant, S., Lake, L., Bommer, P., Torres-Verdin, C, Jablanowski, C, Willis, M, 2009, Petroleum Science and Technology Institute with the TeXas Earth and Space Science (TXESS) Revolution, AGU Annual Meeting.
- Olson, H.C., Damuth, J.E., 2009, Character, Distribution and Timing of Latest Quaternary Mass-Transport Deposits in Texas-Louisiana Intraslope Basins Based on High-Resolution (3.5 kHz) Seismic Facies and Piston Cores, 4th International Symposium on Submarine Mass Movements and Their Consequences.
- Nelson, C.H., Damuth, J.E., Olson, H.C., Twichell, D., Escutia, C., Goldfinger, C., Gutierrez-Pastor, J., 2009, The Role of Mass Transport Processes in Active Tectonic versus Passive Muddy Deltaic Margins, 4th International Symposium on Submarine Mass Movements and Their Consequences.
- Snow, Eleanor, Olson, Hilary Clement, and Ellins, Katherine K., 2009, Using an On-line Community to Connect Teachers Across Texas: Lessons from the TXESS Revolution, GSA Annual Meeting.
- Damuth, J.E., Nelson, C.H., and Olson, H.C., 2008, Bryant Canyon/Fan and Rio Grande Fan Turbidite Systems: Shelf to basin modern analogues for productive Tertiary mini-basin systems: 2008 AAPG Annual Convention and Exhibition Abstracts Volume, p. 38.

- Nelson, H.C., Damuth, J.E., Olson, H.C., Twichell, D.C., Escutia, C., 2008, Examples of shelf to basin modern turbidite system depositional patterns in the Gulf of Mexico: Potential analogues for subsurface petroleum systems: 2008 AAPG Annual Convention and Exhibition Abstracts Volume, p. 148-149.
- Nelson, C.H., Damuth, J.E., Olson, H.C., Twichell, D.C., Escutia, C., 2008, Turbidite System Quaternary Analogues for Subsurface Petroleum Plays of the Northern Gulf of Mexico: 2008 AAPG International Conference and Exhibition Abstracts, Cape Town, South Africa.
- Nelson, C.H., Damuth, J.E., Olson, H.C., Twichell, D.C., Escutia, C., 2008, Modern Turbidite System Depositional Patterns as Analogues for Subsurface Petroleum Plays of the Northern Gulf of Mexico: Houston Geological Society Monthly Meeting, December 8, 2008.
- Olson, H.C., Katherine K. Ellins, Eleanor Snow, Jon E. Olson, Marsha Willis, Michael Odell, Eric L. Stocks, Amanda Hail, 2008, The TXESS Revolution: A Teacher Professional Development Program to Advance Earth and Space Science in Texas, GSA Annual Meeting.
- Ellins, K., H. C. Olson, M. Russ, and N. Putman, 2006, The UTIG/HTU Geodiversity Project Reflections and Future Directions, *Eos Trans. AGU*, 86(52), Fall Meet. Suppl., Abstract ED51A-0829, AGU Annual Meeting.
- Putman, N., K. Ellins, J. Holt, and H. C. Olson, 2006, My Experience as a Student Participant in the Institute for Geophysics/Huston-Tillotson University Geodiversity Project, *Eos Trans. AGU*, 86(52), Fall Meet. Suppl., Abstract ED51A-0830, AGU Annual Meeting.
- Damuth, J.E., Olson, H.C., and Nelson, C.H., 2004, Latest Quaternary gravitational processes of the Texas-Louisiana Intraslope basin province. 32nd International Geological Congress, Florence, Italy, 20-28 August, 2004.
- Damuth, J.E., Olson, H.C., and Nelson, C.H., 2003, Latest Quaternary Slope Processes of the Texas-Louisiana Intraslope Basin Province: The Gulf of Mexico Intraslope Basin Project (GIB): Submarine Slope Systems: Processes, Products, and Prediction. Univ. of Liverpool, Liverpool, UK April 28-29 2003, Conference Abstracts Volume, p 34.
- Damuth, J.E., Olson, H.C., and Nelson, C.H., 2003, Study of Latest Quaternary processes of the Texas-Louisiana Intraslope Basin Province to develop analogs for hydrocarbon reservoirs: Conference on Deep Water Processes in Modern and Ancient Environments, Barcelona and Ainsa, Spain, 15-19 September 2003.
- Nelson, C.H., Damuth, J.E., Olson, H.C., and Twichell, D., 2003, The influence of sediment supply and slope topography on modern turbidite-system development in the Gulf of Mexico: Submarine Slope Systems: Processes, Products, and

- Prediction. Univ. of Liverpool, Liverpool, UK April 28-29 2003, Conference Abstracts Volume, p 72.
- Damuth, J.E., and Olson, H.C., 2002, Comparison of Latest Quaternary depositional processes of the Texas-Louisiana intraslope-basin province and the deep GOM basin floor seaward of the Sigsbee Escarpment: 2002 AAPG Annual Convention Official Program, p. A38.
- Nelson, C.H., Damuth, J.E., Olson, H.C., and Twichell, D., 2002, Comparison of modern intraslope mini-basins to deep-sea fan turbidite systems in the Gulf of Mexico: 2002 AAPG Annual Convention Official Program, p. A129.
- Damuth, J.E., and H.C. Olson, 2001, Evaluation of Latest Quaternary depositional processes and geohazards in Texas-Louisiana intraslope basins based on high-resolution seismic facies and shallow piston cores: 2001 AAPG Annual Convention Official Program, A47.
- Olson, H.C., and Damuth, J.E., 2001, Latest Quaternary depositional processes in Texas-Louisiana intraslope basin province, northern Gulf of Mexico, based on high-resolution seismic facies and piston cores: Amer. Geophys. Union Chapman Conference: Formation of Sedimentary Strata on Continental Margins, Ponce, Puerto Rico, June 17-19, 2001.
- Olson, H.C., J.E. Damuth, P.R. Thompson, and G. Moss, 2001, Latest Quaternary Studies of Downslope Transport within a Stratigraphic Framework, Gulf of Mexico Intraslope Basin Area: 2001 AAPG Annual Convention Official Program, A148.
- Smart, C., and Olson, H.C., 2001, Pleistocene climatic history reflected in planktonic Foraminifera from ODP Site 1073 (Leg 174A), New Jersey margin, NW Atlantic Ocean, abstract, Foraminifera Group spring meeting; abstracts, Newsletter of Micropalaeontology, Vol. 64, pp. 20
- Austin, J.A., Duncan, L., Fulthorpe, C.S., Goff, J.A., and Olson, H.C., 2000, Reaping the Benefits of More Than a Decade of Nesting on the New Jersey Shelf and Upper Slope, abstract, 2000 AGU Fall Meeting.
- Duncan, C.S., Goff, J.A., Austin, J.A., Driscoll, N.W. and Olson, H.C., 2000, Chirp Seismic and Swath Sonar Investigation of Latest Quaternary Stratigraphy, New Jersey Inner Continental Shelf, abstract, 2000 AGU Fall Meeting.
- Mountain, G.S., Monteverde, D., McHugh, C., and H.C. Olson, 2000, Late Pleistocene Glacioeustatic Controls of Stratigraphic Development Offshore New Jersey, GSA 2000 Annual Meeting.
- Damuth, J.E., and Olson, H.C., Stoker, M.S., 1999, Neogene-Quaternary depositional processes on the West Shetland Slope and Faeroe-Shetland Channel revealed by

- high-resolution seismic facies analysis, 1999 AAPG International Conference and Exhibition, Birmingham, U.K., Extended Abstracts.
- Duncan, C., Goff, J., Austin, J., and H. Olson, 1999, Icebergs off New Jersey! Latest Quaternary Seafloor Morphology and Shallow Stratigraphy of the Outer Continental Shelf, Southern Hudson Apron, abstract, AGU 1999 Annual Meeting.
- Gary, A.C., Olson, H.C. and Shogren, G., 1999, Knowledge-based Applications in Computational Stratigraphy, GCAGS 1999 Meeting, Lafayette.
- McHugh, C.M.G., and H.C. Olson, 1999, The Quaternary Record: Isotopic Calibration of Sea-Level Change and Paleoclimate, New Jersey, abstract, AGU 1999 Annual Meeting.
- McHugh, C.M.G., H. Olson, W.L. Balsam, J.E. Damuth, B. Ben-Eliezer, and M. Berger, 1999, High-resolution Pleistocene climatic variability revealed by sediments from the New Jersey Slope; 1999 AAPG Annual Convention Official Program, p. A91.
- Mountain, G.S., C. McHugh, H.C. Olson, and J.E. Damuth, 1999, Eustatic control of slope deposition: Inferences from late Pleistocene age determinations and seismic character at ODP Site 1073, offshore New Jersey, EOS Transactions, AGU, V. 80, No. 46, p. F583 (P).
- Olson, H.C., and A.C. Gary, 1999, Integrated Approaches to Studying Sea-Level Changes: Examples from the Gulf of Mexico and the New Jersey margin using IPS software, AAPG 1999 Annual Meeting.
- Damuth, J.E., and Olson, H.C., 1998, High-resolution seismic and core studies of Quaternary depositional processes in Texas-Louisiana intraslope basins: The use of modern analogs to understand depositional processes and facies of intraslope basin reservoirs, AAPG 1998 Annual Convention Official Program CD-Rom.
- Olson, H.C., 1998, Integration of sequence biostratigraphy into the workstation environment, International symposium on Foraminifera, Forams '98; proceedings of the meeting and abstracts with programs, p. 78.
- Marsaglia, K.M., Hyatt, R., Mann, P., and H.C. Olson, 1997, Development of a sand provenance model for volcanoclastic units associated with hotspot island chains and submarine plateaus and application to a possible accreted terrane in the Kamchatka forearc, Geological Society of America 1997 Annual Meeting Abstracts.
- Buck, K., Olson, H.C., and J.A. Austin, 1996, Paleoenvironmental evidence for latest Pleistocene sea-level fluctuations on the New Jersey outer continental shelf: Combining high-resolution sequence stratigraphy and foraminiferal analysis, Abstracts for Fall AGU Meeting.

- Olson, H.C., and M.B. Lago, 1994, Multivariate quantitative analysis of micropaleontologic data: Sequence and systems-tract calibration in the Faeroe Basin and southeast Texas, *PaleoBios*, v.16, supplement to n. 2, p. 51.
- Olson, H.C., Fearn, L.B., and R.B. Bloch, 1993, Integrated data display: An aid to biostratigraphic characterization of Paleogene sequences, Faeroe Basin, United Kingdom, American Association of Petroleum Geologists 1993 Annual Convention Program, p. 161.
- Damuth, J.E., and H.C. Olson, 1992, Neogene depositional processes in the Faeroe Basin revealed by seismic facies analysis, 4th Conference on Petroleum Geology of NW Europe, London, Abstracts, p. 132.
- Mitchell, S.M., G.J.W. Beamish, M.V. Wood, J.M. Armentrout, J.E. Damuth, H.C. Olson, and S.J. Malecek, 1992, Paleogene sequence stratigraphic framework of the Faeroe Basin: 4th Conference on Petroleum Geology of NW Europe, London, Abstracts, p. 125.
- Damuth, J.E., Olson, H.C., and D.C. Twichell, 1991, Neogene depositional processes on the Texas-Louisiana continental slope revealed by high-resolution seismic studies, *American Association of Petroleum Geologists Bulletin*, v. 75, no. 3, p. 560-561.
- Olson, H.C., 1990, Oligocene-Middle Miocene evolution of the southeastern San Joaquin Basin, California, abstract, *American Association of Petroleum Geologists Bulletin*, v. 74, no. 5, p. 733.
- Olson, H.C., 1990, Integrated paleobathymetric calibration of Miocene foraminiferal faunas, southeastern San Joaquin Basin, California, abstract, *Program and abstracts of fourth international symposium on benthic foraminifera*, 1990, Sendai, Japan, p. 36-37.
- Olson, H.C., and J.C. Ingle, 1987, Response of Middle Miocene benthic foraminifera to paleoceanographic events, ed: R. Tsuchi, *1987 Report I.G.C.P. #246*.
- Olson, H.C., 1987, Biofacies zonation of Middle Miocene benthic foraminifera, southeastern San Joaquin basin, California, *American Association of Petroleum Geologists Bulletin*, v. 71, no. 5, p. 599.
- Olson, H.C., 1986, Paleoenvironment and depositional environment of the Miocene Olcese Sand, Bakersfield, California, *American Association of Petroleum Geologists Bulletin*, v. 70, no. 4, p. 475.
- Rigby, J. Keith, Jr., and H.A. Clement, 1983, A large Chondrichthian fauna from the Pictured Cliffs Sandstone, Cretaceous (Campanian), San Juan Basin, New Mexico, 1983 Geological Society of America North-Central Section meeting, Madison, Wisconsin.