

Curriculum Vitae
Cecilia Maria Gonzalez-McHugh

Work Address

Queens College, City University of New York
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EDUCATION:

1993 - Ph. D: Marine Geology and Geophysics, Columbia University *Cum Laude*
1987 - B. A.: Earth Science/Geology, Western Connecticut State University, Danbury,
Summa Cum Laude

FACULTY APPOINTMENTS:

Queens College	2002-Present	Professor	Earth and Env. Sciences
Queens College	1998-2002	Associate Professor	Earth and Env. Sciences
Queens College	1993-1998	Assistant Professor	Earth and Env. Sciences

Assistant Dean – Division of Math and Natural Sciences – Queens College 2003-2011

Doctoral Faculty of The Graduate School and University Center's Ph.D. Program in Earth and Environmental Sciences - C.U.N.Y. 1993 – Present.

Adjunct Associate Researcher - Lamont-Doherty Earth Observatory of Columbia University
1993- 2003

Adjunct Senior Researcher - Lamont-Doherty Earth Observatory of Columbia University 2003-
Present

Visiting Scientist - Japan Agency for Marine Science and Technology 2013-2014

Fellow of the Geological Society of America 2018

PROFESSIONAL AFFILIATIONS:

1985 - Present: Geological Society of America
1989 - Present: American Geophysical Union
1993 -2005: Society Economic Paleontologists and Mineralogists
1985 -2003: American Association of Petroleum Geologists

RESEARCH INTERESTS

- Land-Sea Interactions in the Indian Ocean: Tectonics, Paleoearthquakes, Paleoclimate, Fluvial Processes
- Developing Tools for Submarine Earthquake Geology in Subduction and Transform Plate Boundaries
- Global Sea Level Changes and Seismic Stratigraphy along Continental Margins
- Connections and Reconnections of Marginal Basins in Response to Average Global Sea Level Changes
- Impact of Sea Level Changes, Storms and Pollution in Estuaries and Coasts

RESEARCH EXPEDITIONS:

Main Source of Funding: * National Science Foundation

Others:

Japan Agency for Marine Earth-Science and Technology (JAMSTEC).

Invited Dr. T. Kanamatsu

+ French Institute for Marine Research (IFREMER). Invited Dr. P. Henry

◦ Federal Ministry of Education and Research (Germany). Invited Dr. M. Strasser

^ New York and Connecticut State Agencies

++ PSC-CUNY Research Foundation

Haifa University, Israel. Invited Dr. Y. Mart

++ Italian National Research Council. Invited Dr. A. Polonia

1. ^August 2018. *R/V Pritchard*. Long Island Sound Mapping. Co-Chief
2. ^June 2018. *R/V Seawolf*. Long Island Sound Mapping. Co-Chief
3. ^ August 2017. *R/V Pritchard*. Long Island Sound Mapping. Co-Chief
4. ◦ October 2016. *R/V Sonne*. Extreme events archive in the geological record of Japan's subduction margins. Sedimentologist
5. *August-September 2015. *R/V Joides Resolution* IODP. Expedition 356. Indonesian Throughflow. Sedimentologist
6. + November 2014, *R/V Pourquoi Pas*. MARsiteCruise to study the seismicity, tectonics, and earthquake history of the North Anatolia Fault in Marmara Sea, Turkey.
7. # August –September 2013, *R/V Natsushima*. The Survey and Observation for Earthquakes and Tsunamis off the Pacific Coast of Tohoku". Sedimentologist
8. ^ June 2013, *R/V Pritchard*. Long Island Sound Mapping. In charge of sediment grab program- Co-Chief
9. ^ June 2013, *R/V Seawolf*. Long Island Sound Mapping - In charge of sediment grab program- Co-Chief

10. *May 2013, *R/V SeaVee*. Survey of Lake Enriquillo, Dominican Republic to assess activity along the Enriquillo-Plantain Garden Transform Boundary. Co-Chief
11. *March 2013, *R/V Pritchard*. NSF RAPID response to evaluate the impact of super storm SANDY. Co-Chief
12. # January- February 2013, *R/V Natsushima*. “The Survey and Observation for Earthquakes and Tsunamis off the Pacific Coast of Tohoku”. Sedimentologist.
13. *February 23-March 15, 2010, *R/V Endeavor*. NSF RAPID: Collaborative Research: Off-shore coseismic effects of the Port au Prince earthquake, Haiti. Chief Scientist
14. *November 4 - 2009 - January 4, 2010, *R/V Joides Resolution*. Leg 317 - Canterbury Basin, New Zealand: Sea-level, climate and tectonics. Sedimentologist
15. *July 2006, *R/V Hugh Sharp*. Partnership to Enhance Diversity in Marine Geosciences: Holocene Climate and Anthropogenic Changes from Long Island Sound, NY. Co-Chief
16. ## August 2005, *R/V Mediterranean Explorer*. Latest Pleistocene and Holocene paleoceanography of the Marmara Sea and Black Sea. Sedimentologist.
17. ^ September 2002 *R/V Robert Hayes*. Developing High-Resolution Climate Records for the Hudson River Region Using an Integrated Approach. Co-Chief.
18. *May 2002 *R/V Endeavor*. New Tools Applied to Classic Problem: Towards an Understanding of What Shapes the Stratigraphic Record at Passive Margins. Co-Chief
19. ++ May 2001, *R/V Urania*. Tectonics of the North Anatolia fault beneath the Marmara Sea. Coring, geophysics, and R.O.V. dives. Co-Chief.
20. *+ June 1999. *R/V Marion Dufresne*. STRATAFORM/ODP Sampling of Quaternary sediment with CALYPSO coring equipment. Co-Chief.
21. ^ May 1999. *R/V Walford*. Hudson River Estuary Benthic Mapping: Sediment Sampling. Co-Chief.
22. ^ November 1998. *R/V Onrust*. Hudson River Benthic Mapping: Sediment Sampling. Co-Chief.
23. ++ August 1998. *R/V Walford*. Sediment sampling of Sandy Hook Bay, New Jersey to assess toxic waste dumping on the submarine environment. Co-Chief.
24. ++ July -September, 1997. *R/V Walford*. Sediment sampling of the New York Bight and Hudson River Estuary to assess toxic waste dumping on the submarine environment. Co-Chief.
25. *June - July 1997, *R/V Joides Resolution*. Ocean Drilling Program (ODP), Leg 174A: Studies of the New Jersey Shelf. Sedimentologist.
26. *May - July 1993, *R/V Joides Resolution*. Ocean Drilling Program (ODP), Leg 150: New Jersey sea-level/Mid-Atlantic Transect. Sedimentologist.
27. *May, 1993, *R/V Point Lobos*: Groundtruthing of side-looking sonar data of Monterey Canyon and San Gregorio fault, off-shore Monterey, CA, with Remote Operated Vehicle. Co-Chief
28. *September 1990, *R/V Point Sur*: A multi-frequency side-looking sonar study of the Monterey Canyon and Fan, off-shore Monterey, California, U.S.A.
29. *December, 1989, *R/V Atlantis II*: A study of the age and origin of erosional features on the U.S. continental slope off-shore New Jersey determined from Alvin dives, piston cores, and SeaBeam bathymetry.
30. *August, 1989, *R/V Atlantis II*: Ground-truth side-looking sonar data (SeaMARC I and GLORIA) and stratigraphic studies of the of the U.S. continental slope off-shore New

Jersey determined from Alvin dives, piston cores, and physical properties measurements. SeaBeam bathymetric survey George's Banks, U.S. slope.

31. *October 1988, *R/V Atlantis II*: Alvin dives and photographic survey to study stratigraphy and sedimentary processes in the Monterey Canyon and Fan off-shore Monterey, California.

PUBLICATIONS

a. Peer Reviewed Journals

*student

2019

1. *Wright, V., Hornbach, M., Brown, L., McHugh, C., Mitchell, S. (submitted). Neotectonics of Southeast Jamaica derived from marine seismic surveys and gravity cores. *Tectonics* (AGU Journal Submission 2018TC5440)
2. *Ishiwa, T., Yokoyama, Y., Reuning, L., **McHugh, C.**, De Vleeschouwer, D., (in press). Australia summer monsoon variability in the past 14,000 years revealed by IODP Expedition 356 sediments. *Progress in Earth and Planetary Science* (PEPS-S-18-00119).
3. *Kioka, A., *Schwestermann, T., Moernaut, J., Ikehara, K., Kanamatsu, T., McHugh, C. M., dos Santos Ferreira, C., Wiemer, G., Haghypour, N., Kopf, A. J., Eglinton, T. I. and Strasser, M. (in press). Megathrust earthquake drives drastic organic carbon supply into the hadal trench. *Scientific Reports* SREP-18-22232A.

2018

4. *Mondal, D., **McHugh, C.M.**, Mortlock, R., Steckler, M., Mustaque, S. 2018. Microatolls document the 1762 and prior earthquakes along the southeast coast of Bangladesh. *Tectonophysics*. doi:[10.1016/j.tecto.2018.07.020](https://doi.org/10.1016/j.tecto.2018.07.020)
5. *Tagliaro, G., Fulthorpe, C. S., Gallagher, S. J., **McHugh, C. M.**, Kominz, M., Lavier, L. L., 2018. Neogene siliciclastic deposition and climate variability on a carbonate margin: Australia Northwest Shelf. *Marine Geology* 403:285-300. <https://doi.org/10.1016/j.margeo.2018.06.007>

2017

6. *Usami, K., Ikehara, K., Kanamatsu, T., **McHugh, C.**, 2018. Supercycle in great earthquake recurrence along the Japan Trench over the last 4000 years. *Geoscience Letters* v. 5(11), pg. 1-12

7. **McHugh, C.M.**, Fulthorpe, C. S., Hoyanagi, K., Blum, P., Mountain, G.S., Miller, K.G., 2017. The sedimentary imprint of Pleistocene glacio-eustasy: Implications for global correlations of seismic sequences. *Geosphere*, v. 14, no 1, p 1-21. DOI:10.1130/GES01569.1
5. Kanamatsu, T., Usami, K., **McHugh, C.M.**, Ikehara, K., 2017. High-resolution chronology of sediment below CCD based on Holocene paleomagnetic secular variations in the Tohoku-oki earthquake rupture zone. 2017. *Geochemistry Geophysics Geosystems* v. 18, p 1-13. Doi:10.1002/2017GC006878.
6. Christensen, B.A., Renema, W., Henderiks, J., De Vleeschouwer, D., Groeneveld, J., Castaneda, I., Reuning, L., Bogus, K., Auer, G., Ishiwa, T., **McHugh, C.M.**, Gallagher, S. J., Fulthorpe, C.S., and IODP Expedition 356 Scientists, 2017. Indonesian Throughflow drove Australian climate from humid Pliocene to arid Pleistocene. *Geophysical Research Letters* 44, p, 6914-6925. Doi:10.1002/2017GL072977.
7. Groeneveld, J., Henderiks, J., Renema, W., **McHugh, C.M.**, DeVleeschouwer, D., Christensen, B.A., Fulthorpe, C.S., Reuning, L., Gallagher, S.J., Bogus, K., Auer, G., Ishiwa, T., and Expedition 356 Scientists. 2017. Australian shelf sediments reveal shifts in Miocene Southern Hemisphere Westerlies. *Science Advances*: vol. 3, no. 5, e1602567, DOI: 10.1126/sciadv.1602567

2016

8. **McHugh, C.M.**, Kanamatsu, T., Seeber, L., Bopp, R., Cormier, M.-H., Usami, K., 2016. Remobilization of surficial slope sediment triggered by the A.D. 2011 M_w 9 Tohoku-Oki earthquake and tsunami along the Japan Trench. *Geology* 44(5), 391-394. doi:10.1130/G37650.
9. **McHugh, C. M.**, Strasser, M., Cattaneo, A., Ikehara, K., 2016. Submarine Paleoseismology: Using Giant Piston Coring within IODP to fill the gap in the Long-term Records of Great Earthquakes. Ocean Discovery, *The US Scientific Ocean Drilling Community Newsletter*, Spring 2016, pgs. 4-5.

2015

10. *Wright, V. D., Hornbach, M. J., **McHugh, C.**, Mann, P. 2015. Factors contributing to the 2005-Present, rapid rise in lake levels, Dominican Republic and Haiti (Hispaniola). *Natural Resources* vol 6, No. 8. DOI:10.4236/nr.2015.68045
11. Strasser, M., Cattaneo, A., Ikehara, K., **McHugh, C.M.**, 2015. Submarine Paleoseismology : Using giant-piston coring within IODP to fill the gap in long-term records of great earthquakes – 16-18 July 2015, Zurich (Switzerland). *ECORD Newsletter*, 25: 24.

2014

12. **McHugh, C.M.**, L. Seeber, M.-H. Cormier, M. Hornbach, 2014. Submarine Paleoseismology along Populated Transform Boundaries: The Enriquillo-Plantain-Garden Fault, Canal du Sud, Haiti, and the North Anatolian Fault, Marmara Sea, Turkey. *Oceanography Special Issue on Submarine Natural Hazards. Oceanography* 27(2), p. 118-131.
13. **McHugh, C.M.G.**, Braudy, N., Cagatay, M. N., Sorlien, C., Cormier, M.-H., Seeber, L., Henry, P., 2014. Seafloor ruptures along the North Anatolia Fault in the Marmara Sea, Turkey: Link with the adjacent basin turbidite record. *Marine Geology* v. 353, p. 65-83.

2012

14. **McHugh, C.M.**, Seeber, L., Çağatay, N., Henry, P., Sorlien, C., Steckler, M., Uçarkuş, G., 2012. Tectonic Hazards along Continental Transform Boundaries “An Integrated Ocean Drilling Program Marmara-Trans Workshop on Continental Transform Boundaries: Tectonic Evolution and Geohazards . *Integrated Ocean Drilling Program Scientific Drilling Journal No. 13* Pages 60-64.
15. Shillington, D.J., Seeber, L., Sorlien, C.C., Steckler, M.S., Kurt, H., Dondurur, D., Cifci, G., Cormier, M.-H., **McHugh, C.M.G.**, Gurcay, S., Poyraz, D., Okay, S., Atgin, O., Diebold, J. B., 2012. Evidence for widespread creep on the flanks of the Sea of Marmara Transform basin from marine geophysical data. *Geology* 40, p 439-442.

2011

16. **McHugh, C.M.**, Seeber, L., 2011. Studying tectonic hazards along continental transform boundaries. *EOS Transactions American Geophysical Union*, V. 92, No. 48, p. 444.
17. **McHugh, C.**, Seeber, L., Braudy, N., Cormier, M.-H., Davis, M., Dieudonne, N., Deming, J., Diebold, J., Douilly, R., Gulick, S., Hornbach, M., Johnson, H., Mishkin, K., Sorlien, C., Steckler, M., Symithe, S., Templeton, J., 2011. Offshore sedimentary effects of the 12 January Haiti earthquake. *Geology* 39, 8, 723-726. doi:10.1130/G31815.1
18. Hornbach, M.J., N. Braudy, R.W. Briggs, M.H. Cormier, M.B. Davis, J.B. Diebold, N. Dieudonné, R. Douilly, C. Frohlich, S.P.S. Gulick, H.E. Johnson, P. Mann, **C. M. G. McHugh**, K. Mishkin, C.S. Prentice, L. Seeber, C.C. Sorlien, M.S. Steckler. S.J. Symithe, F.W. Taylor, J. Templeton, 2010. High tsunami frequency as a result of combined strike-slip faulting and coastal landslides, *Nature Geoscience*, 3, 783-788.

2010

19. **McHugh, C.M.**, Hartin, C., Mountain, G.S., Gould, H., 2010. The role of glacio-eustasy in sequence formation: Mid-Atlantic Continental Margin, USA. *Marine Geology* 277, p. 33-47. doi:10.1016/j.margeo.2010.08.009
20. *Sorichetta A., Seeber L., Taramelli A., **McHugh C. M. G.**, Cormier M.-H. 2010. Geomorphic evidence for tilting at a continental transform: The Karamursel Basin along the

North Anatolian Fault (NAF), Turkey. *Geomorphology* 119, 221-231.
Doi:10.1016/j.geomorph.2010.03.035

21. **McHugh, C.**, Gulick, S., Cormier, M.-H., Braudy, N., Davis, M., De Bow, S., Dieudonne, N., Deming, J., Diebold, J., Douilly, R., Hornbach, M., Johnson, H., Mishkin, K., Seeber, L., Sorlien, C., Steckler, M., Symithe, S., Templeton, J., Wilson, R., 2010. Project RECONS: Offshore fault mapping and turbidite record reconnaissance in response to the January 12 2010 earthquake, Haiti. 2010. *Seismological Research Letters Volume 81, No 3*.

2008

22. **McHugh, C. M.**, Gurung, D., Giosan, L., Ryan, W. B. F., Mart, Y., Sancar, U., Burckle, L., Cagatay, M.N. 2008. The last reconnection of the Marmara Sea, Turkey to the World Ocean: A paleoceanographic and paleoclimatic perspective. *Marine Geology* v. 255, p. 64-82. doi:10.1016/j.margeo.2008.07.005

2006

23. **McHugh, C. M. G.**, Seeber, L., Cormier, M.-H., Dutton, J., Cagatay, N., Polonia, A., Ryan, W. B. F., and Gorur, N. 2006. Submarine earthquake geology along the North Anatolia Fault in the Marmara Sea, Turkey: A model for transform basin sedimentation. *Earth and Planetary Sciences* 248, 661-684. doi:10.1016/j.epsl.2006.05.038
24. Cormier, M.-H., L. Seeber, **C. M. G. McHugh**, A. Polonia, M.N. Çagatay, O. Emre, L. Gasperini, N. Gorur, G. Bortolouzzi, E. Bonatti, W.B.F. Ryan, and K. Newman, 2006. The North Anatolian fault in the Gulf of Izmit (Turkey): Rapid vertical motion in response to minor bends of a non-vertical continental transform, *Journal of Geophysical Research* v. 111, B04102. doi:1029/2005JB003633.
25. Seeber, L., M.-H. Cormier, **C. McHugh**, Ö. Emre, A. Polonia, , C. Sorlien, 2006. Rapid subsidence and sedimentation from oblique slip near a bend on the North Anatolian transform fault in the Marmara Sea, Turkey. *Geology* 34(11), p. 933-936.

2004

26. **McHugh, C. M. G.**, Pekar, S., Christie-Blick, N., Ryan, W.B.F., Carbotte, S., Bell, R., 2004, Spatial variations in a condensed interval between estuarine and open marine settings: Holocene Hudson River Estuary and adjacent continental shelf. *Geology* 32 (2), 169-172.
27. L. Seeber, O. Emre, M. Cormier, C. Sorlien, **C. McHugh**, A. Polonia, N. Ozer, and N. Cagatay, 2004. Uplift and subsidence from oblique slip: The Ganos-Marmara Bend of the North Anatolian Transform. *Tectonophysics* v. 391 (1-4), p. 239-258.
28. Polonia, A., Gasperini, L., Amorosi, A., Bonatti, E., Cagatay, N., Capotondi, L., Cormier, M.-H., Gorur, N., **McHugh, C.**, Seeber, L., 2004. Holocene slip rate of the North Anatolian Fault beneath the Sea of Marmara. *Earth and Planetary Science Letters* v. 227:411-426.

29. Pekar, S. F., **McHugh, C. M. G.**, Christie-Blick, N., Lynch-Stieglitz, J., Carbotte, S., and Bell, R. E., 2004. Estuarine processes and their stratigraphic record: paleosalinity and sedimentation changes in the Hudson Estuary: *Marine Geology*, v. 209, p. 113-129.

2003

30. M. N. Cagatay, N. Gorur, A. Polonia, E. Demirbag, M. Sakinc, M., -H. Cormier, L. Capotondi, **C. McHugh**, O. Emre, K. Eris, 2003. Sea-level changes and depositional environments in the Izmit Gulf, eastern Marmara Sea, during the late glacial-Holocene period. *Marine Geology* 202, p. 159-173.

2002

31. **McHugh, C. M. G.**, and Olson, H.C., 2002. Pleistocene chronology of continental margin sedimentation: New insights into traditional models, New Jersey. *Marine Geology* 185, p. 389-411.
32. **McHugh, C. M. G.**, Damuth, J. E, and Mountain, G. S. 2002. Cenozoic mass-transport facies and their correlation with relative sea-level change, New Jersey continental margin. *Marine Geology* 184, p. 295-334.
33. Ladd, J., Bell, R.E., Bokuniewicz, H., Carbotte, S., Cerrato, R.M., Chillrud, S., Ferrini, B.L., Flood, R.D., Maher, N.P., **McHugh, C. M. G.**, Nitsche, F. O., Ryan, W. B. F., Strayer, D. L., Thissen, J. A., Vestee, R., 2002. Mapping the Hudson Estuary's Submerged Lands. *Clearwaters* v. 32, No. 1, p. 5-9.

2001

34. Svarda, C., Karwinkel, H., McCarthy, F. M. G., **McHugh, C. M. G.**, Olson, H. C., Mountain, G. 2001. Ichnofabrics of a Pleistocene succession, New Jersey margin: Relations to climate and sea-level dynamics. *Palaeogeography, Palaeoclimatology, Palaeoecology* v. 171, p. 41-61 doi:10.1016/S0031-0182(01)00266-8

2000

35. **McHugh, C.M.G.** and Ryan, W.B.F., 2000. Sedimentary features associated with channel overbank flow: examples from the Monterey Fan. *Marine Geology* 163, 199-215.

1998

36. **McHugh, C. M. G.**, Snyder, S. W., and Miller, K. G., 1998. Upper Eocene ejecta of the New Jersey continental margin reveal dynamics of Chesapeake Bay. *Earth and Planetary Science Letters* v.160, 3-4, p 353-367.

37. Orange, D. L., Greene, H. G., Reed, D., Martin, J., **McHugh, C. M. G.**, Ryan, W. B. F., and Barry, J., 1998. Active and dormant mud volcanism in Monterey Bay, California I: ROV Observations. *Geological Society of America Bulletin* v.111, No. 7, p. 992-1009.
38. **McHugh, C. M. G.**, Ryan, W. B. F., Eittreim, S., and Reed, D, 1998, Influence of the San Gregorio fault zone on the morphology of Monterey Canyon system off-shore Monterey Bay, California. *Marine Geology* v. 146, p. 63-91.
39. Glass, B. P., Koeberl, C., Blum, J. D., and **McHugh, C. M. G.**, 1998. Upper Eocene tektite and impact ejecta layer on the continental slope off New Jersey. *Meteoritics & Planetary Science*, v. 33, 229-241.

1997

40. **McHugh, C. M. G.**, 1997, Effects of sea-level changes on the diagenesis of Eocene sediment: New Jersey slope and coastal plain, In: Miller, K. G., Snyder, S. W., (Eds.): *Proceedings of the Ocean Drilling Program, Scientific Results*, 150X: College Station, TX (ODP) 25-48.

1996

41. **McHugh, C. M. G.**, Damuth, J. E., Gartner, S., Katz, M. E., and Mountain, G. S., 1996, Oligocene to Recent mass-transport deposits of the New Jersey continental margin and their correlation to sequence boundaries, In: Mountain, G. S., Miller, K. G, Blum, P., Poag, W., Twichell, D. (Edts.): *Proceedings of the Ocean Drilling Program, Scientific Results*, 150: College Station, TX (ODP), 189-228.
42. **McHugh, C. M. G.**, Snyder, S. W., Deconinck, J. F., Saito, Y., Aubry, M. P., and Katz, M. E., 1996, Upper Eocene tektites of the New Jersey continental margin: ODP, Site 904, In: Mountain, G. S., Miller, K. G, Blum, P., Poag, W., Twichell, D. (Edts.): *Proceedings of the Ocean Drilling Program, Scientific Results*, 150: College Station, TX (ODP), 241-269.
43. Mountain, G., Damuth, J., **McHugh, C.**, Lorenzo, J., and Fulthrope, 1996, Origin, re-Burial and significance of a mid-Miocene Canyon, New Jersey Continental Slope, In: Mountain, G. S., Miller, K. G, Blum, P., Poag, W., Twichell, D. (Edts.): *Proceedings of the Ocean Drilling Program, Scientific Results*, 150: College Station, TX (Ocean Drilling Program), 283-293.
44. Barry, J.P., Greene, H. G., Orange, D., Baxter, C. H., Robinson, B. H., Kochevar, R. E., Nybakken, J., Reed, D., **McHugh, C.** 1996. Biologic and geologic characteristics of cold seeps in Monterey Bay, California. *Deep Sea Research Part I; Oceanographic Research Papers* v. 43 (11-12), p. 1739-1762.

1994

45. O'Connell, S., **McHugh, C. M.**, and Ryan, W. B. F., 1994, Unique fan morphology in an entrenched thalweg channel on the Rhone Fan, In Pickering, K. T., Hiscott, R. N., Kenyon,

N. H., Ricci Lucchi, F., and Smith, R. D. A., Eds, *Atlas of Deep Water Environments*, Chapman & Hall. p 80-83.

1993

46. **McHugh, C. M.**, Ryan, W. B. F., and Schreiber. B. C., 1993, The role of diagenesis in exfoliation of submarine canyons, *American Association of Petroleum Geology Bulletin* v. 77, no. 2, p.145-172.

1992

47. **McHugh, C. M.**, Ryan, W. B. F., and Hecker, B., 1992, Contemporary sedimentary processes in the Monterey Canyon fan system, *Marine Geology*, v. 107, p. 35-50.

1991

48. Ryan, W. B. F., Haxby, W., Pratson, L., **McHugh, C. M.**, 1991, Intercomparison of co-registered Seabeam bathymetry, Hydrosweep bathymetry, SeaMarc I imagery and submersible observations on the continental slope of the eastern U.S., *IEEE Journal of Oceanic Engineering*, v. 3, p. 1159-1164.

1990

49. Rau, G. H., **McHugh, C. M.**, Harrold, C., Baxter, C., Hecker, B., Embley, R. W., 1990. $\delta^{13}\text{C}$, $\delta^{15}\text{N}$, $\delta^{18}\text{O}$ of *Calyptogena phaseoliformis* (bivalve mollusk) from the Ascension Fan-Valley near Monterey, California. *Deep Sea Research Part A. Oceanographic Research Papers* v. 37 (11), p. 1669-1676.
50. Embley, R. W., Eittrheim, S. L., **McHugh, C. H.**, Normark, W. R., Rau, G. H., Hecker, B., DeBevoise, A. E., Greene, H. G., Ryan, W. B. F., Harrold, C., Baxter, C. 1990. Geological setting of chemosynthetic communities in the Monterey Fan Valley system. *Deep Sea Research Part A. Oceanographic Research Papers* v. 37 (11), p. 1651-1667.

b. Selected Book Chapters:

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31. Mountain, G.S., Miller, K.G., Blum, P., Per-Gunnar, A., Aubry, M.-P, Burckle, L., Christensen, B. A., Compton, J., Damuth, J., Deconinck, J.-F., de Verteuil, L., Fulthorpe, C. S., Gartner, S., Guerin, G., Hesselbo, S.P., Hoppie, B., Katz, M.E., Kotake, N., Lorenzo, J.M., McCracken, S., **McHugh, C. M.**, Quayle, W.C., Saito, Y., Snyder, S.W., ten Kate, W.G., Urvat, M., Van Fossen, M., Vecsei, A., 1994. *Site 904*. In Miller, Mountain and Shipboard Scientific Party. Proceedings of the Ocean Drilling Program, Initial Reports 150. Eds., Mountain, G.S., Miller, K.G., Blum, P., Poag, C.W., Twichell, D.C. College Station, TX (Ocean Drilling Program). pp 207-253. doi:10.2973/odp.proc.ir.150.108.1994
32. Mountain, G.S., Miller, K.G., Blum, P., Per-Gunnar, A., Aubry, M.-P, Burckle, L., Christensen, B. A., Compton, J., Damuth, J., Deconinck, J.-F., de Verteuil, L., Fulthorpe, C. S., Gartner, S., Guerin, G., Hesselbo, S.P., Hoppie, B., Katz, M.E., Kotake, N., Lorenzo, J.M., McCracken, S., **McHugh, C. M.**, Quayle, W.C., Saito, Y., Snyder, S.W., ten Kate, W.G., Urvat, M., Van Fossen, M., Vecsei, A., 1994. *Site 905*. In Miller, Mountain and Shipboard Scientific Party. Proceedings of the Ocean Drilling Program, Initial Reports 150.

Eds., Mountain, G.S., Miller, K.G., Blum, P., Poag, C.W., Twichell, D.C. College Station, TX (Ocean Drilling Program). pp 255-308. doi:10.2973/odp.proc.ir.150.109.1994

33. Mountain, G.S., Miller, K.G., Blum, P., Per-Gunnar, A., Aubry, M.-P, Burckle, L., Christensen, B. A., Compton, J., Damuth, J., Deconinck, J.-F., de Verteuil, L., Fulthorpe, C. S., Gartner, S., Guerin, G., Hesselbo, S.P., Hoppie, B., Katz, M.E., Kotake, N., Lorenzo, J.M., McCracken, S., **McHugh, C. M.**, Quayle, W.C., Saito, Y., Snyder, S.W., ten Kate, W.G., Urbat, M., Van Fossen, M., Vecsei, A., 1994. *Site 906*. In Miller, Mountain and Shipboard Scientific Party. Proceedings of the Ocean Drilling Program, Initial Reports 150. Eds. Mountain, G.S., Miller, K.G., Blum, P., Poag, C.W., Twichell, D.C. College Station, TX (Ocean Drilling Program). pp 309-357. doi:10.2973/odp.proc.ir.150.110.1994

c. Peer Reviewed International Abstracts and Workshops:

Invited

* Student

2018 Quebec, Canada

1. **C. M. McHugh**, L. Seeber, C. Paola, B. Dugan, M. Strasser, T. Kanamatsu, K. Ikehara, 2018. The sedimentary signature of shallow tsunamigenic earthquakes. International Sedimentology Conference. August 12-15, 2018. Quebec, Canada. Abstract # 184-wiwK-183

2018 Chiba, Japan

2. # **C. M. McHugh**, G. Taliaro, C. S. Fulthorpe, M. Kominz, J. Groeneveld, Y. He, H. Takayanagi. 2018. Miocene aridity and sabkha development: Southeast Indian Ocean, offshore western Australia. Japan Geoscience Union Meeting #MIS01-11.
3. *T. Ishiwa, Y. Yokoyama, **C. M. McHugh**, L. Reuning, S. J. Gallagher. 2018. The Holocene Australian Summer Monsoon variability revealed by IODP Expedition 356 sediments. Japan Geoscience Union Meeting #MIS08-P04
4. **C. M. McHugh**, T. Rasbury, L. Seeber, M. Strasser, T. Kanamatsu, K. Ikehara, S. Mustaque, K. Usami, R. Bopp, K. Wooton, J. Moernaut, A. Kioka, T. Schwestermann. 2018. The isotopic signature of remobilized sediment by Tohoku 2011 and prior earthquakes: Japan Trench and slope. Japan Geoscience Union Meeting #HCG23-04.
5. H. Takayangi, S. Wakaki, I. Irwan, N. Sekine, D. DeVleeschower, J. Groeneveld, K. Bogus, T. Ishiwa, T. Sato, B. L. Mamo, Y. He, **C. M. McHugh**, L. Reuning, W. Renema, B. A. Christensen, J. Henderiks, S. J. Gallagher, C. S. Fulthorpe, T. Ishikawa, Y. Yokoyama, Y. Iryu. 2018. History of the Leeuwin Current during the last 5 million years: Evidence from seawater Neodymium isotope variation. Japan Geoscience Union Meeting #MIS01-10.

6. *A. Kioka, T. Schwestermann, J. Moernaut, K. Ikehara, T. Kanamatsu, **C. M. McHugh**, T. I. Eglinton, M. Strasser. 2018. Carbon supply into the deep-sea Japan Trench associated with the 2011 Tohoku-oki earthquake. Japan Geoscience Union Meeting #HCG23-03.

2017 - Vienna, Austria

7. *Arata Kioka, Michael Strasser, Jasper Moernaut, Tobias Schwestermann, Ken Ikehara, Toshiya Kanamatsu, **Cecilia M. McHugh** and the R/V Sonne SO251A Science Party Team. 2017. Preliminary modelling of turbidity currents associated with the 2011 Tohoku-oki Earthquake. *Geophysical Research Abstracts*. Vol. 19, EGU2017-11937, 2017, EGU General Assembly 2017.
8. *Tobias Schwestermann, Hiske G. Fink, Gerold Wefer, Timo Fleischmann, **Cecilia M. McHugh**, Ken Ikehara, Toshiya Kanamatsu, Arata Kioka, Michael Strasser and the SO215A Science Party Team. XRF analyses of turbidites in the Japan Trench: Evidences of provenances? *Geophysical Research Abstracts*. Vol. 19, EGU2017-8873, 2017, EGU General Assembly 2017.
9. #Michael Strasser, Achim Kopf, Toshiya Kanamatsu, Jasper Moernaut, Ken Ikehara, **Cecilia McHugh** and the SO-251/1 Science Team. Extreme event archived in the geological record of the Japan Trench: New results from R/V Sonne Cruise SO-251 towards establishing J-TRACK paleoseismology. *Geophysical Research Abstracts*. Vol. 19, EGU2017-8821, 2017, EGU General Assembly 2017.
10. Toshiya Kanamatsu, Kazuko Usami, **Cecilia McHugh** and Ken Ikehara. Paleomagnetic rock magnetic approach to the analyzing seismo-turbidite in the Tohoku-oki earthquake rupture zone. *Geophysical Research Abstracts*. Vol. 19, EGU2017-3959, 2017, EGU General Assembly 2017.

2017 - Tokyo, Japan

11. Michael Strasser, Toshiya Kanamatsu, Ken Ikehara, Shuichi Kodaira, **Cecilia McHugh** and IODP Proposal 866 proponent group and SO215 Science Party. Using giant piston coring within IODP to track past earthquakes in the sedimentary record along the Japan Trench. *Japan Geoscience Union Meeting*. U03-P03

2017 - Toulouse, France

12. Jasper Moernaut, Ariana Molenaar, Gauvain Weimer, **Cecilia McHugh**, Maarten Van Daele, Martin Koelling, Marc De Batist, Michael Strasser. Earthquake-triggered remobilization of surficial slope sediments in lakes and ocean margins: Identification and significance. *International Meeting of Sedimentology 2017*. Toulouse, 10-12 October 2017, pg 617.

2017- AGU, New Orleans

13. *Jennifer Castaneda, **Cecilia M. McHugh**, Michelle A. Kominz, Stephen J. Gallagher, Michael Gurnis, Takeshige Ishiwa, Briony L. Mamo, Jorijntje Henderiks, Beth Anne Christensen, Jeroen, Groeneveld, Yusuke Yokoyama, Sharif Mustaque, Farah Iqbal, 2017. Pleistocene arid and wet climatic variability: Imprint of glacial climate, tectonics and oceanographic events in the sediments of the SE Indian Ocean, Western Australia. *American Geophysical Union Meeting*, New Orleans.PP31E-08.
14. **Cecilia M. McHugh**, Leonardo Seeber, Jasper Moernaut, Michael Strasser, Toshiya Kanamatsu, Ken Ikehara, Richard Bopp, Sharif Mustaque, Kazuko Usami, Tobias Schwestermann, Arata Kioka, L. McCain Moore and R/V Sonne 215A Science Party. 2017. Sedimentary signatures of submarine earthquakes: Deciphering the extent of sediment remobilization from the 2011 Tohoku earthquake and tsunami and 2010 Haiti earthquake. *American Geophysical Union Meeting*, New Orleans.EP12C-04.
15. Beth Christensen, Hideko Takayanagi, Benjamin Petrick, Takeshige Ishiwa, Jorijntje Henderiks, Jeroen Groeneveld, Briony Mamo, David De Vleeschouwer, Gerald Auer, Hanaa Deik, Craig Fulthorpe, Stephen Gallagher, **Cecilia McHugh**, Lars Reuning, Yusuke Yokoyama, 2017. Late Pleistocene Age Model for Site U1460, Perth Basin, SW Australian Shelf: Implications for Leeuwin Current History. *American Geophysical Union Meeting*, New Orleans. PP23C-1328.
16. *Takeshige Ishiwa, Yusuke Yokoyama, **Cecilia M. McHugh**, Lars Reuning, Stephen J. Gallagher. 2017. The history of the Australian monsoon on the Australian Northwest Shelf: preliminary results from IODP Expedition 356. *American Geophysical Union Meeting*, New Orleans. PP31E-07.
17. *G. Tagliaro, C. S Fulthorpe, S. J. Gallagher, **C. M. McHugh**, M. Kominz, L. L. Lavier. 2017. Climate Variability and Siliciclastic Deposition on a Carbonate Margin – Neogene of the Northwest Shelf of Australia. *American Geophysical Union Meeting*, New Orleans. PP23C-1331.
18. Briony L. Mamo, **Cecilia McHugh**, Willem Renema, Stephen Gallagher, Craig Fulthorpe, Kara Bogus. 2017. Foraminiferal signatures of mass transport from the north-west continental shelf off Western Australia, IODP Expedition 356. *American Geophysical Union Meeting*, New Orleans. PP23C-1330.
19. Stephen J. Gallagher, Jackson McCaffrey, Malcolm William Wallace, Myra Keep, Craig Fulthorpe, Kara Bogus, **Cecilia McHugh**. 2017. Did the onset of high amplitude glacio-eustatic cycles triggered mass-transport processes on the Northwest Shelf of Australia from IODP expedition 356. *American Geophysical Union Meeting*, New Orleans. PP34B-07
20. Leonardo Seeber, **Cecilia McHugh**, Humayun Akhter, Robert Schenck, Michael Steckler, Basudeb Kumar, Anayet K. Shovon. 2017. Sand-venting by a M5.7 and prior earthquake below the Ganges-Brahmaputra Delta as a guide to a liquefaction-prone sedimentary setting

and its implications for earthquake hazards. *American Geophysical Union Meeting*, New Orleans. T43C-0710.

2017 - Shanghai, China

21. Gallagher, S.G., Fulthorpe, C.S., Bogus, K., Christensen, B.A., Groeneveld, J., **McHugh, C.M.**, and Expedition 356 Scientists. 2017. The history of the Australian monsoon on the Australian Northwest Shelf: preliminary results from IODP Expedition 356. IODP-PAGES Workshop on Global Monsoon in Long-term Records. September 7-9, 2017. *Tongji University, Shanghai, China*.

2016 - AGU, San Francisco

22. **McHugh, C.M.**, Groeneveld, J., Henderiks, J., Renema, W., De Vleeschouwer, D., Christensen, B.A., Potts, D. C., Fulthorpe, C., S., Bogus, K., Gallagher, S.J., and Expedition 356 Scientists, 2016. Miocene wet and extreme arid climatic conditions in the Southeast Indian Ocean off Western Australia revealed by the lithology of Roebuck and Perth Basins. *American Geophysical Union, Fall Meeting San Francisco*, PP42A-04.

23. Christensen, B.A., Renema, W., Henderiks, J., De Vleeschouwer, D., Groeneveld, J., Castaneda, I., Reuning, L., Bogus, K., Auer, G., Ishiwa, T., **McHugh, C.M.**, Fulthorpe, C.S., Gallagher, S. J., and IODP Expedition 356 Scientists, 2016 Indonesian Throughflow drove Australian climate from humid Pliocene to arid Pleistocene. *American Geophysical Union, Fall Meeting San Francisco*, PP42A-01.

24. *Mondal, D.R., **McHugh, C.**, Steckler, M.S., Seeber, L., Akhter, S.H., Mustaque, S., Knappett, P.S., 2016. Uplifted terraces along the Southeastern coast of Bangladesh reveal the extent of the 1762 earthquake surface deformation and potentially document prior earthquakes. *American Geophysical Union, Fall Meeting San Francisco* T41B-2905.

25. *Mustaque, S., **McHugh, C.**, Mondal, D.R., Akhter, S.H., Iqbal, M., 2016. Modern sedimentation along the SE Bangladesh coast reveal surprisingly low accumulation rates. *American Geophysical Union, Fall Meeting San Francisco*, GC23D-1266.

2016 - Japan

26. Groeneveld, J., Henderiks, J., Renema, W., **McHugh, C.M.**, De Vleeschouwer, D., Christensen, B.A., Fulthorpe, C., S., Reuning, L., Gallagher, S.J., Bogus, K., Auer, B., Ishiwa, T., and Expedition 356 Scientists. 2016. Australian shelf sediments reveal shifts in Miocene Southern Hemisphere Westerlies. *Goldschmidt Conference, Yokohama, Japan*.

27. Kanamatsu, T., Usami, K., **McHugh, C.**, Ikehara, K., 2016. Paleomagnetic secular variation of deep sea sediment in Northeast Japan: challenge of dating of sedimentary sequence below CCD for paleoseismology in the rupture zone of 2011 Tohoku-oki earthquake. *Japan Geoscience Union Meeting*, Tokyo, Japan. Abstract #SEM05-04

2016 - Vienna, Austria

28. *Grall, C., Henry, P., Kende, J., Cagatay, M.N., Eris, K.K. Pailles, C., Sorlien, C., Shilington, D., **McHugh, C.**, Steckler, M.S., 2016. Marine to lacustrine transition, mud volcanism and slope instability in an active tectonic setting: the MIS 5 to 4 transition in the Sea of Marmara, Turkey. Geophysical Research Abstracts, *European Geophysical Union*, EGU2016-11085

2015 – Tokyo Japan - AGU, San Francisco

29. **McHugh, C. M.**, Kanamatsu, T., Seeber, L., Cormier, M.-H., Bopp, R., Ikehara, K., Usami, K., 2015. Spatial extent of sedimentation triggered by the 2011 Tohoku earthquake from short-lived radioisotope data, Japan Trench. *Japan Geoscience Union Meeting*. Tokyo, Japan.
30. *Mondal, D.R., **McHugh, C.M.**, Mortlock, R.A., Steckler, M., Seeber, L., Mustaque, S., Goodbred, S., Akhter, S.H., 2015. Submergence and uplift associated to paleoearthquakes in the Northern Sunda Subduction system: Implications for future earthquakes. *Geophysical Union Fall Meeting*, San Francisco. Abstract #NH23B-1878
31. Strasser, M., Ikehara, K., Usami, K., Kanamatsu, T., **McHugh, C.**, 2015. The marine-geological fingerprint of the 2011 magnitude 9 Tohoku-oki earthquake. *American Geophysical Union Fall Meeting*, San Francisco. Abstract #NH21E-03 (Invited)
32. *Lauture, E., **McHugh, C.M.**, Nitsche, F., Kenna, T., 2015. The impact of anthropogenic activities on ecosystems of Long Island Sound, NY. *American Geophysical Union Fall Meeting*, San Francisco. Abstract # GC13G-1241
33. **McHugh, C.M.**, Mansfield, V., Mondal, D., Seeber, L., Mustaque, S., Steckler, M., Mustaque, S., Akhter, S.H., 2015. Evidence for the tsuanmigenic 1762 earthquake in an extremely sedimented segment of the Sunda subduction/collision boundary, SE Bangladesh. *American Geophysical Union Fall Meeting*, San Francisco, CA. Abstract #NH21E-08

2014 – AGU, San Francisco

34. **McHugh, C.**, Kanamatsu, T., Cormier, M.-H., Seeber, L., Bopp, R., Ikehara, K., Usami, K., 2014. Sedimentation triggered by the 2011 Tohoku Megathrust Earthquake along the Japan Trench. *American Geophysical Union Fall Meeting*, San Francisco. Abstract T52A-02
35. Seeber, L., Steckler, M., Akhter, S., Goodbred, S., Gale, J., **McHugh, C.**, Ferguson, E., Mondal, D., Paola, C., Reitz, M., Wilson, C., 2014. Between Sunda subduction and

Himalayan collision: fertility, people and earthquakes on the Ganges-Brahmaputra Delta (Invited). *American Geophysical Union Fall Meeting*, San Francisco. Abstract U21A-05

36. Kanamatsu, T., Ikehara, K., Strasser, M., Usami, K., **McHugh, C.**, Fink, H., Nakamura, Y., Kodaira, S., 2014. Paleoseismology along the Japan Trench Subduction Zone: Deep-Sea Sediment Records of Earthquakes in Tohoku (Invited). *American Geophysical Union Fall Meeting*, San Francisco. Abstract T52A-01.
37. *Gurung, D., **McHugh, C.**, Mondal, D., Seeber, L., Steckler, M., Bastas-Hernandez, A., Akhter, S., Mustaque, S., Goodbred, S., 2014. Evidence for a tsunami generated by the 1762 Great Arakan earthquake, Southeastern Bangladesh. *American Geophysical Union Fall Meeting*, San Francisco. Abstract T43B-4732.
38. *Bastas-Hernandez, A., **McHugh, C.**, Mondal, D., Seeber, L., Steckler, M., Gurung, D., Mustaque, S., Marsh, J., Akhter, S., 2014. Sedimentary Record of Paleodeformation of the Saint Martin Anticline Reveals the Interaction Between Tectonics, Sedimentation Processes and Relative Sea-level Changes: Ganges-Brahmaputra Delta Burma Arc Collision, SE Bangladesh. *American Geophysical Union Fall Meeting*, San Francisco T43B-4726.
39. *Usami, K., Ikehara, K., Kanamatsu, T., **McHugh, C.**, 2014. Seismo-turbidites in the Japan Trench inner slope. *American Geophysical Union Fall Meeting*, San Francisco. Abstract T43B-4716.
40. *Mondal, D., **McHugh, C.**, Mortlock, R., Gurung, D., Bastas-Hernandez, A., Steckler, M., Seeber, L., Mustaque, S., Goodbred, S., Akhter, S., Saha, P., 2014. Paleoseismic Records of 1762 and Similar Prior Earthquakes Along the South-Eastern Coast of Bangladesh. *American Geophysical Union Fall Meeting*, San Francisco. Abstract T43B-4712.
41. *Wright, V., Hornbach, M. J., **McHugh, C.**, Mann, P., 2014. Factors contributing to recent water level rise in Hispaniola Lakes: Preliminary Results. *Geophysicists With No Borders Annual Meeting*. Extended abstract.

2014 - Marseille, France

42. *Kende, J., Henry, P., Grall, C., Cagatay, M. N., Sorlien, C., Cifici, G., **McHugh, C.**, Saritas, H. 2014. Sedimentary records of hydrology and fault slip in the Marmara Sea basins. Conference on the Holocene, July 7-8, 2014, Aix-Marseille University, Marseille, France.

2014 – Geneva, Switzerland

43. **McHugh, C.**, Kanamatsu, T., Cormier, M.-H., Seeber, L., Bopp, R., Ikehara, K., Usami, K., 2014. The Sedimentation record of the 2011 Tohoku megathrust earthquake along the Japan Trench. *19th International Sedimentological Congress*, Geneva, Switzerland. Abstracts with Programs page 36. Abstract No S1-O13.

44. **McHugh, C. M.**, Seeber, L., Cormier, M.-H., Hornbach, M., 2014. Submarine paleoseismology along transform boundaries: Enriquillo Plantain Garden Fault, Canal du Sud, Haiti and North Anatolia Fault, Marmara Sea, Turkey. *19th International Sedimentological Congress, Geneva, Switzerland*. Abstracts with Programs page 54. Abstract No S1-P4.

2014 – Tokyo, Japan

45. *Usami, K., Ikehara, K., **McHugh, C.**, Kanamatsu, T., 2014. Turbidites collected from the Japan Trench inner slope during the NT13-19 cruise. *Japan Geoscience Union Meeting 2014*. MIS33-03

2013 – AGU, San Francisco

46. **C. M. McHugh**, C. Fulthroe, K. Hoyanagi, P. Blum. 2013. Pleistocene seismic sequences may result from eustatic change but can they be used for global correlations? New insights from the Canterbury Basin, New Zealand. *American Geophysical Union Meeting*. Abstract #PP53B-1995
47. L. Seeber, E. Ferguson, H. Akhter, M. Steckler, D. Mondal, J. Gale, **C. Mchugh**, C. Paola, S. Goodbred 2013. The Brahmaputra delta and its merger into an accretion wedge in advance of the progressive suturing between India and Asia. *American Geophysical Union Meeting*. Abstract #EP33B-0892
48. M. S Steckler, S. L. Goodbred, S. H. Akhter, L. Seeber, M. D. Reitz, C. Paola, S. L. Nooner, S. DeWolf, E. K. Ferguson, J. Gale, S. Hossain, M. Howe, W.-Y. Kim, **C. M. McHugh**, D. R. Mondal, A. L. Petter, J. Pickering, R. Sincavage, L. A. Williams, C. Wilson, M. A. Zumberge 2013. Ganges-Brahmaputra Delta: Balance of Subsidence, Sea level and Sedimentation in a Tectonically-Active Delta. *American Geophysical Union Meeting*. Abstract #EP33D-01
49. *P. Hosseini, **C. M. McHugh**, B. A. Christensen, J. Dutton, B. Brownawell, D. Gurung. 2013. Effects of Super Storm Sandy on Depositional Environments Offshore Long Island, New York. *American Geophysical Union Meeting*. Abstract #OS31A-1694
50. *V. D. Wright, M. J. Hornbach, **C. M. McHugh**, Y. Asilis, M. Montes. 2013. Lake Enriquillo water level history and implications for future flooding in the Southwestern Dominican Republic. *American Geophysical Union Meeting*. Abstract #NH51C-1625.
51. B. Christensen, J. A. Goff, J. A. Austin, C. M. Browne, S. Sastrup, N. S. Duzgoren-Aydin, R. F. Flood, **C. McHugh**, J. Dutton, P. Hosseini, B. Brownawell., 2013. Soupy surface muds: a probable Sandy storm horizon with a potential source fingerprint. *American Geophysical Union Meeting*. Abstract #OS31A-1697
52. *J. K. Rios, **C. M. McHugh**, M. J. Hornbach, P. Mann, V. D. Wright, D. Gurung. 2013.

Holocene activity of the Enriquillo-Plantain Garden Fault in Lake Enriquillo derived from seismic stratigraphy. *American Geophysical Union Meeting*. Abstract #T23E-2629

53. *D. R. Mondal, **C. M. McHugh**, M. S. Steckler, L. Seeber, S. H. Akhter, R. A. Mortlock, 2013. Coseismic Deformation of the Great 1762 Arakan Subduction Earthquake Along South-Eastern coast of Bangladesh. *American Geophysical Union Meeting*. #T23C-2609

2012 – AGU, San Francisco

54. **McHugh, C. M.**, Fulthorpe, C., Blum, P., Chow Y., Mishkin, K. 2012. Global Se-level Changes Revealed in the Sediments of the Canterbury Basin, New Zealand, IODP Expedition 317. 2012. *American Geophysical Union Meeting*. Abstract OS51B-1874.
55. *Rios, J.K., **McHugh, C.M.**, Seeber, L., Blair, S., Sorlien, C.C., 2012. Latest Pleistocene to Holocene Evolution of the Baie de Port au Prince, Haiti. 2012. *American Geophysical Union Fall Meeting*. Abstract T41A-2572.

2012 Turkey (Istanbul, Izmir)

56. **McHugh, C. M.**, Seeber, L. Cormier, M.-H., Hornbach, M., Momplaisir, R., Sorlien, C., Steckler, M., Waldhauser, F., 2012. Submarine Paleoseismology along Transform Boundaries: A sesimotectonic signal from offshore sedimentation of the 2010 Haiti Earthquake. Paeloseismology along the North Anatolia Fault meeting. *Istanbul Technical University* October 8 -12, 2012. Abstract with Programs pg 4.
57. **C. M. McHugh**, L. Seeber, N. Braudy, A. Hakimian, M. N. Çağatay, P. Henry. 2012. Holocene ruptures along the North Anatolia Fault in the Marmara Sea, Turkey: Sedimentary processes, spatial extent and age. *International Earth Science Colloquium on the Aegean Region. Izmir, Turkey*. October 1-5, 2012. Abstract 183-323-2
58. H. Kurt, C. C Sorlien, L. Seeber, M. S Steckler, D. J Shillington, G. Çifçi, S. Okay, M.-H. Cormier, O. Atgin, S. Gurcay, D. Dondurur, C. Imren, **C. M McHugh**. 2012. Steady late Quaternary slip on the North Anatolian fault in Cinarcik Basin, Marmara Sea. *International Earth Science Colloquium on the Aegean Region. Izmir, Turkey*. October 1-5, 2012. Abstract 160-450-1
59. D. J. Shillington, L. Seeber, C. C. Sorlien, M. S. Steckler, H. Kurt, D. Dondurur, G. Çifçi, Caner İmren, M-H. Cormier, **C. M.G. McHugh**, S. Gürçay, D. Poyraz, S. Okay, O. Atgin. 2012. Evidence for widespread gravitational creep and abundant gas in the Sea of Marmara transform basin from the TAMAM project. *International Earth Science Colloquium on the Aegean Region. Izmir, Turkey*. October 1-5, 2012. Abstract 160-450-1
60. L. Seeber, C. C Sorlien, M-H. Cormier, D. J. Shillington, M. S Steckler, G. Çifçi, S. Okay, H. Kurt, **C. M McHugh**, B. Barin, O. Atgin, S. Gurcay, D. Dondurur, C. Imren 2012. Horizontal offsets on the North Anatolian fault (NAF) coupled with basin

formation in the Marmara Sea. *International Earth Science Colloquium on the Aegean Region. Izmir, Turkey*. October 1-5, 2012. Abstract 242-1175-1

61. C. C. Sorlien, L. Seeber, M. S. Steckler, D. J. Shillington, H. Kurt, G. Çifçi, S. Okay, M.-H. Cormier, B. Barin, O. Atgin, S. Gurcay, D. Dondurur, C. Imren, **C. M. McHugh**, 2012. Quaternary basin formation along the North Anatolian Fault System in Marmara Sea, Turkey. *International Earth Science Colloquium on the Aegean Region. Izmir, Turkey*. October 1-5, 2012. Abstract 229-470-1.

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d. Reports

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STUDENTS MENTORED

a. Graduate Students:

Main advisor:

1. *2017 (in progress) Robert Schenck (PhD). *Paleoseismology along the IndoBurma ranges, Bangladesh*. Queens College, The Graduate Center of the City University of New York.
2. 2016 (in progress) Linda McCain Moore (MA). *Seismites of the Japan Trench Margin*. Queens College, City University of New York.
3. *2015-2018: Sharif Mustaque (MA) *Quaternary fluvial and tectonic evolution along the IndoBurma ranges using sediments and geochemical proxies as provenance*. COMPLETED. Queens College, City University of New York
4. *2013-2018: Dhiman Mondal (PhD) Evidence of the 1762 Arakan and prior earthquakes in the Northern Sunda Subduction, pp 160. COMPLETED. Queens College, The Graduate Center of the City University of New York.
5. *2013-2017: Pariskeh Hosseini (PhD). *The sedimentation record of storms offshore Long Island and Long Island Sound*. Queens College, The Graduate Center of the City University of New York.
6. *2014-2017: Edwige Lauture (MA) *Tracking the path of contaminants in Western and Central Long Island Sound*. pp 202 COMPLETED. Queens College, City University of New York
7. *2012-2014: Amanda Bastas-Hernandez (MA) *Sedimentary record of paleodeformation: tectonics, sea level and sedimentation: SE Bangladesh*, pp115. COMPLETED. Queens College, City University of New York

8. 2009 to 2011: Kathryn Mishkin (PhD) Global and local control in the evolution of a continental margin: Canterbury Basin, New Zealand. Queens College, The Graduate Center of the City University of New York.
9. *2003 to 2012 – Damayanti Gurung (Ph.D.) *Late Pleistocene-Holocene climate change inferred from fossil fauna in the Marmara Sea, Turkey and the Hudson River Estuary, NY*. COMPLETED. Queens College, The Graduate Center of the City University of New York.
10. *2005 to 2012– Elana Klein (Ph.D.) *Coastal Processes and Anthropogenic Impact: Raritan - Sandy Hook Bay, New Jersey*. COMPLETED
11. 2006 to 2012– Adina Hakimian (MA) *Submarine Paleoseismology in the Ionian Sea, Mediterranean*. COMPLETED. Queens College, The City University of New York.
12. *2002 to 2008. George Lozefski. *Submarine Paleoseismology in the Gulf of Izmit, Turkey*.
13. 1999 to 2008- Robert Appelbaum (Ph.D.) *Eocene climate and sea-level derived from sediment and Formation Micro Scanner (FMS) data on the New Jersey Continental Margin*. COMPLETED. Queens College and The Graduate Center of the City University of New York
14. *2004-2007. Alessandro Soricheta. Research Scholar. *Crustal unloading along a continental transform: flexural response to the North Anatolian Fault in Izmit Gulf, NW Turkey* COMPLETED. Queens College, The City University of New York.
15. *2002-2004. Jessica Dutton (MA). *Developing tools for Submarine Earthquake Geology in Turkey and Northern Venezuela*. COMPLETED. Queens College, The City University of New York.
16. 1998-2000 Basil Skordas (MA) *The impact of toxic waste dumping on the submarine environment*. Queens College, The City University of New York.

*Related publications under Journals and Abstracts sections.

b. Committee Member:

1. *2016 (in progress) Tobias Schwestermann (PhD) *Japan Trench turbidites provenance*. University of Innsbruck, Austria
2. *2015 (in progress) Vanshan Wright (PhD) *Neotectonics of the Enriquillo-Plantain Garden transform boundary in Jamaica*. Southern Methodist University, Dallas, TX
3. 2014 to 2018 Julia Kende (PhD) *Sedimentary records of hydrology and fault slip in the Marmara Sea Basins, Turkey*. CEREGE, Aix-Marseille Université, France
4. 2013 to 2018 (in progress): Ben Kwiatkowski (PhD). *The evolution of the Late Miocene constriction of deep water circulation through the Central American Seaway, its impact on global ocean circulation and the beginning of modern climate*. The Graduate Center of the City University of New York.
5. 2009 to 2015: Daniel W. Hauptvogel (PhD) *The state of the Oligocene Icehouse World: Sedimentology, provenance and stable isotopes of marine sediments from*

- the Antarctic Continental Margin*. COMPLETED. The Graduate Center of the City University of New York.
6. 2002 to 2008– Nouredin Amaach (Ph.D.) *Sediments and pollution in the New York Bight, NY*. COMPLETED. The Graduate Center of the City University of New York.
 7. 2000 to 2006- Farnosh Saadi (Ph.D.). *Dinoflagellate Stratigraphy and Facies of the Late Cretaceous – Early Tertiary (K/T boundary) interval at the Bass River Site, New Jersey, ODP 174X*. COMPLETED. The Graduate Center of the City University of New York.
 8. 2005 to 2007. Donald Clark (Ph.D.) COMPLETED. The Graduate Center of the City University of New York
 9. 2001 to 2003- Peter Fleischer (Ph.D.). *Glaciological Roots of New York City's Regional Geography: A GIS Visualization*. The Graduate Center of the City University of New York
 10. *2000 - 2002. JoAnn Thiessen (MA) *Hudson River Estuary Benthic Mapping and Sediment Analyses*. COMPLETED. SUNY Stony Brook.
 11. 1998 to 2000- Fatemeh Sayrafiezadeh (Ph.D.) *Sediment contamination in the Lower Hudson Estuary*. COMPLETED The Graduate Center of the City University of New York
 12. 1998 to 2007 - Paul Feinberg (Ph.D.) *Ecology of the Hudson River Estuary*. COMPLETED The Graduate Center of the City University of New York
 13. 1997 to 2005 - Paula Gural (MA) *Tectonics and sedimentation of the Hudson Valley region*. COMPLETED. Queens College and The City University of New York
 14. 1998 to 1999 - Tarik Zarrouk (Ph.D.). *The chemical characteristics of the interstitial waters in sediments of Great South Bay*. COMPLETED The Graduate Center of the City University of New York

*Related publications under Journals and Abstracts sections.

c. Undergraduate Students:

Main advisor:

1. 2017-2018 Adam Kaiser *Long Island Sound Mapping Project*
2. *2015-2018 Michael Delligatti *Long Island Sound Sedimentation Processes*
3. *2015-2017 Jennifer Castaneda *SE Indian Ocean Quaternary paleoclimate*
4. *2014-2016 Victoria Mansfield *Sedimentation triggered by the 2011 Tohoku earthquake and tsunami, Japan Trench*
5. *2013-2015 Elisa Oliveira *Sedimentation triggered by the 2011 Tohoku earthquake and tsunami, Japan Trench*
6. *2008-2010 Andrea Balbas. *Heavy metal concentrations in the sediments of Long Island Sound*.
7. 2008-2010. Myrna Gattica. *Seismoturbidites of the Marmara Sea*.
8. *2008-2010 Nicole Braudy. *Seismoturbidites of the Marmara Sea*.
9. 2008-2010 Carolyn Aquino *Seismoturbidites of the Canal du Sud, Haiti*

10. *2007-2008. Jennifer Rios. *Benthic foraminifers of Long Island Sound.*
11. *2005-2008. Vadim Acosta. *Benthic foraminifers of Long Island Sound.*
12. *2005-2009. Alexandra Bowman. *Mercury concentrations in the Long Island Sound sediments.*
13. *2002-2006 Corinne Hartin. *Drainage systems associated with the latest Pleistocene-Holocene paleoshoreline on the New York – New Jersey Continental Margin*
14. *2002-2004. Helene Gould. *Evidence for the latest Pleistocene-Holocene shoreline along the New York-New Jersey Continental Margin*
15. *2002-2004. Sarah Brownlee. *Diatoms as proxies for climate change in the Hudson River, New York*
16. *2001-2003. George Losefzky *Paleoseismology in the Marmara Sea seismic gap.*
17. *2001-2002 Miriam Jones. *Decadal to Millennial Sedimentation Patterns of Hudson River Estuary.*
18. *1999 - 2001. Gillian Pereira. *Late Holocene paleoclimate of the Hudson Valley revealed by the diatom assemblages.*
19. 1998. Joel Jackel. *High Resolution Climate Study of Pleistocene Sediment, New Jersey Continental Margin.* Sigma-Xi presentation at Queens College.
20. 1998. Mary Ann Possini. *High Resolution Climate Study of Pleistocene Sediment, New Jersey Continental Margin.*
21. 1998. Onika Shing. *Diatom distribution in the Hudson River Estuary.*
22. 1998. Christin Garritano. *Hudson River Benthic Mapping and Sediment Sampling. Participated in the sampling field program of the Hudson River from the R/V Walford.*
23. 1998. Taso Lamputis. *Hudson River Benthic Mapping and Sediment Sampling. Participated in the sampling field program of the Hudson River from the R/V Walford.*
24. *1997. Bettina Ben-Eliezer. *Isotope Calibration of Pleistocene Sequences, New Jersey Continental Margin. Sigma-Xi presentation at Queens College and was part of the abstract presented in San Antonio, TX. at an AAPG national meeting.*
25. 1996. Carol Fitzgerald. *High Resolution Climate Study of Pleistocene Sediment, New Jersey Continental Margin.*
26. 1996. Veronika Forero. *The role of mass-wasting on the evolution of the New Jersey Continental Margin. Sigma-Xi presentation at Queens College*
27. 1995. Thomas Lyogis. *Upper Eocene tektites of the North American Strewn Field.*
28. 1994. John Walsh. *Mass-wasting facies of the New Jersey Continental Margin.*

*Related publications under Journals and Abstracts sections.

d. Mentoring of High-School Students for Intel Competitions:

- 2002 Kaliopi Zangos. Earthquakes along the North Anatolia Fault in the Marmara Sea Turkey
Intel Semi-Finalist
2001. Dave Fong, Testing the feasibility of paleoseismology in the Marmara Sea seismic gap.
2000. Salma Ragoonath, Relation between tributary discharge, tides, and mineral distribution along the Hudson River from the sedimentary record and side-scan sonar imagery.

1999. Kristi Van Olen, Relation between grain size and side-scan sonar backscatter: Examples from the Hudson River. Kristi formed part of the results presented at a Hudson River workshop.
1998. Michael Bregger, High Resolution Climatic Variability of Pleistocene Sediment, New Jersey Continental Margin. Michael formed part of the results presented at a San Antonio, TX. National AAPG meeting.
1997. Tara Patterson, Possible Chesapeake Bay Impact Crater ejecta in upper Eocene sediment: New Jersey Coastal Plain. Westinghouse Semi-Finalist Brooklyn Polytechnique Finalist Dallas International Meeting Participant

SERVICE

a. PROFESSION

1. Distinguished Lecturer, International Ocean Discovery Program, United States Science Support Program. 2017-2018
2. “IODP Proposal Nurturing Workshop: Goa, India 17-18 September, 2018”. Understanding the nature and structure of the shallow portion of a subduction zone: IODP Drilling of the IndoBurma Subduction Zone by C. McHugh. (Invited) Trip supported by IODP
3. Shepard Medal Award for Marine Geology, Committee Member, Society of Economic Paleontologists and Mineralogists. Two-year term (2018-2020).
4. “Eastern Mediterranean and Marmara Sea workshop for IODP proposal writing” Lisbon, Portugal, February 21-23, 2018. (Invited). Trip supported by IODP
5. “Assessment of the R/V JOIDES Resolution in Meeting the Challenges of the IODP Science Plan”, Denver, CO, September 24-26, 2017 (Invited, IODP)
6. “Proposal 866 Full2: TRACKing past earthquakes in the sediment record along the Japan Trench: Testing and developing submarine Paleoseismology in the deep sea (JTRACK-Paleoseismology)” Workshop for developing IODP Proposal, Yokohama Japan. (Trip supported by IODP).
7. “Land-Sea Interaction Across the Indian Ocean: Workshop. Narragansett, Rhode Island, USA, July 12-14, 2017 (Invited, IODP)
8. International Ocean Discovery Program Science Evaluation Panelist, 9/1/14-8/31/17
9. For 2017: External Evaluator for promotion from Associate to Full Professor: Department of Geology and Geophysics, Louisiana State University, Baton Rouge,

LA and Departments of Earth and Ocean Sciences, University of North Carolina, Wilmington, USA

10. Integrated Ocean Drilling Program Science Steering and Evaluation Panelist, 9/1/09–8/31/12
11. IODP Workshop for “Submarine Paleosociology” Zurich, July 2015. Co-organizer with Michael Strasser (ETH, Zurich), Antonio Cattaneo (IFREMER) and Ken Ikehara (AIST). Trip supported by IODP.
12. Queens College Division of Mathematics and Natural Sciences, Undergraduate Research Conference. Main Coordinator. 2004-2011.
13. IODP Workshop in Istanbul Technical University, for preparation of a drilling proposal in Marmara Sea, 2011. Leader and main organizer together with P. Henry (France) and N. Cagatay (Turkey).
14. Society for the Advancement of Chicanos and Native Americans Annual Meeting 2007, Invited Panelist
15. State Univ. of N.Y. Maritime Academy, 2007-2013, Science Advisory Comm.
16. American Assoc. of Petroleum Geologists, 1996-1999, Chair Academic Liaison
17. NSF-MG&G, GeoPrism proposal reviewer for 2017
18. NSF proposal reviewer (2000-2016)
19. Journal reviewer for 2017: Geology, Marine Geology, Tectonophysics, Journal of Geophysical Research (Solid Earth), Nature Geoscience
20. Journal reviewer (1993-2016)

b. COLLEGE/UNIVERSITY

Queens College School of Earth and Environmental Sciences

Structural Geology Search Committee	2017 - 2018
Personnel and Budget	1996-2016, Spring 2018
Chair Search Committee Structural Geology	2012 - 2013
Chair Search Committee Environmental Remediation	2012 – 2013

Division of Math and Natural Sciences Assistant Dean	2003-2011
Div. of Math & Natural Sciences Deans Search Committee	2008
Graduate Advisor	1998-2002
Internship Coordinator	1996-2005
Seminar Coordinator	1997 & 2017

The Graduate Center of the City University of New York

Bridges to the Doctorate Selection Committee 2005	
PSC-CUNY Panelist	2005-2009
Louis Stoke Alliance for Minority Participation Steering Committee	2003-2010
Curriculum Committee	1994
Ph.D. Exam Committee	1994
Executive Committee	1993-1999 & 2013-2018

HONORS AND AWARDS

- 2019: Fellow of the Geological Society of America
- 2017-2018: Distinguished Lecturer for the International Ocean Discovery Program
- 2002: Western Connecticut State University Centennial Award for Academic Excellence
- 1998: Undergraduate Faculty Mentoring Research Award - Queens College, C.U.N.Y.
- 1997: Presidential Research Award - Queens College, C.U.N.Y.
- 1994: Sigma Xi
- 1993: "Cum Laude" Columbia University

1990 - 1993 Graduate Research Assistant, Lamont-Doherty Geological Observatory and
Department of Geological Sciences of Columbia University

1990: Marine Geology and Geophysics Travel Award, Lamont-Doherty Geological Observatory
and Department of Geological Sciences of Columbia University

1987-1990: Graduate Research Assistant, Lamont-Doherty Geological Observatory and
Department of Geological Sciences of Columbia University

1987: Outstanding Accomplishments in Geological Sciences, The Danbury Mineralogical
Society, Danbury, Connecticut

1987: "Summa Cum Laude" Western Conn. State University