

## Curriculum Vitae

John F. Casey, Professor of Geology

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**UH Web Page:** <https://www.uh.edu/nsm/earth-atmospheric/people/faculty/john-casey/index.php>

UH ICP Analytical Research Lab: <http://icplab.geosc.uh.edu>

**Google Scholar Page:** <https://scholar.google.com/citations?user=IC8UIpQAAAAJ&hl=en>

**Researchgate Page:** <https://www.researchgate.net/profile/John-Casey-14>

**RESEARCH AREAS:** Plate Tectonics, Structural Geology, Geochemistry, Inductively Coupled Plasma Mass Spectrometry (ICP-OES, ICP-MS, QQQ-ICP-MS, LA-ICP-MS), Trace Element and Isotope Geochemistry, U/Pb Geochronology, Marine Geology, Mid-Ocean Ridges, Northern Appalachians, Ophiolites, Manned Deep Submersibles, ROV-AUV Submersibles, Ocean-Drilling of the Oceanic Crust and Mantle, Oceanic Core Complexes, Marine Bathymetric/Side-Scan Interpretation, Field Geology/Mapping, Multi-element geochemistry of organic matter, oil and source rocks, Fluid mobile elements, hydrothermal alteration, VMS, Hydrothermal vents.

## EDUCATION

1970	Christopher Columbus High School, Boston MA.
1975	University of Pennsylvania B.A. (Geology)
1980	State University of New York at Albany Ph.D. (Geology), Advisor: John F. Dewey, FRS

## PROFESSIONAL EXPERIENCE

1975 – 1980	Research and Teaching Assistant (Geology) State University of New York at Albany
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1980 – 1986	Assistant Professor University of Houston, Department of Geosciences
1986 – 1996	Associate Professor University of Houston, Department of Geosciences
1989-Present	Director: University of Houston ICP Analytical Research Labs (ICP-OES, MP-ICP-AES, LA-Q-ICP-MS, QQQ-ICP-MS, Microwave Digestion Systems, Li-Metaborate Fusion, U/Pb U-Pb age dating) <a href="http://icplab.geosc.uh.edu">http://icplab.geosc.uh.edu</a>
1997 – present	Professor University of Houston, Department of Geosciences
1999 –2012	Department Chair University of Houston, Department of Earth and Atmospheric Sciences Oversight of 4 undergraduate degree programs and 5 M.S. and 3 Ph.D. graduate programs Ph.D. Degrees in Geology, Geophysics, Environmental, and Atmospheric Sciences. Oversaw enrollment growth to become one of the largest geoscience departments in the U.S.
1994 – 2006	United States Project Coordinator United States – Russia Joint Oceanographic Agreement (per World Oceans Agreement) Project: Mid-Atlantic Ridge Crest Processes
1985, 1990, 1991, 1992	Summer Guest Investigator Woods Hole Oceanographic Institution
1987 - 1988 2014	Guest Investigator (on sabbatical leave) Woods Hole Oceanographic Institution
2009-Present	Distinguished Guest Professor, University of Science and Technology of China, Hefei, China
2013-Present	Co-Director: Agilent-UH Center of Excellence
2015, 2016	Summer Guest Investigator, Adjunct, Woods Hole Oceanographic Institution.
2015-Present	Fellow of the Geological Society of America

**OCEAN  
EXPEDITIONS  
EXPERIENCE**

(Oceanographic Vessels, Drilling Ships and Deep Diving Submersibles)

1977	April	Cayman Trough Region. Participant. Cayman Trough Survey aboard R/V Oceanus. Conducted dredging and support operations for submersible program.
1979	October	Tamayo Fracture Zone. Participant. Tamayo Fracture Zone Survey, aboard R/V Gillis. Conducted dredging and support operations for the submersible program
1980	June – July	Oceanographer Fracture Zone. Participant. Oceanographer Fracture Zone Survey, aboard R/V Knorr and DSRV Alvin R/V Lulu. Conducted ANGUS survey, dredging and heat flow studies, completed submersible dives at the transform ridge intersection

1986	May – June	MARK Area (Mid-Atlantic Ridge South of the Kane Fracture Zone) Participant aboard R/V Atlantis II/DSRV Alvin. Conducted submersible studies, ANGUS and SEABEAM surveys, and dredging program within the rift valley.
1989	February	Mid-Atlantic Ridge near 31°N. Participant aboard R/V Akademik Boris Petrov. Conducted multi-beam, gravity, magnetic, seismic and sampling surveys on the first cruise as part of a United States – Soviet bilateral agreement.
1989	June – July	Kings Trough, North Atlantic near 42°N. Chosen as diver in the first joint United States – Soviet submersible dive. Aboard R/V Akademik Mstislav Keldysh/DSRV MIR I and MIR II. Also conducted side-scan, deep bottom photographic, and piston coring studies. First U.S Scientist to dive in Russian Submersible.
1990	October – November	Mid-Atlantic Ridge (30 – 34°N). Conducted multi-beam, gravity, magnetic, seismic and sampling surveys, aboard R/V Akademik Boris Petrov as part of United States – Soviet Bilateral Agreement (U.S. Co-chief Scientist)
1991	May – June	Siquieros Transform Fault (East Pacific Rise). Conducted multi-beam, DSRV Alvin submersible and dredging operations.
1992	March – April	FARANAUT 15°20'. Survey to the Mid-Atlantic Ridge near the 15°20' transform. Conducted DSRV Nautille submersible dives, SIMRAD multi-beam, gravity, and magnetic studies of the transform and adjacent ridge segments, and water column studies of methane and Mn anomalies. Aboard R/V L'Atalante
1993-1994	November – January	Leg 153, Ocean Drilling Project – Drilling of peridotite and gabbro in the MARK region aboard the R/V JOIDES Resolution. Proposal Co-author.
1998	April 15, 1998 – June 15	Leg 179, Ocean Drilling Project – Chief Scientist, Hammer Drilling (Atlantis Bank) and Ninety-East Ridge Seismic Observatory. Coring of gabbroic rocks.
1998	June 30 – July 30	R/V Yokuska and DSRV Shinkai 6000 Submersible Study of the Mid-Atlantic Ridge near the 15°20' transform. Magnetism, Gravity, Multibeam and Submersible Sampling
2003	May – July 2003	Leg 209, Mantle drilling along the Mid-Atlantic Ridge, 14 – 16°N. Proposal co-author.
2007	March – April	TOBI Side Scan sonar, multi-beam, magnetic, gravity, dredging and rock drilling, mid-Atlantic ridge 14 – 16°N, Aboard the R/V James Cook

**FIELD  
MAPPING  
EXPERIENCE**

1973	May – July 1973 (8 weeks)	University of Houston Summer Field Camp Silver City, New Mexico
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1975	Sept.– Oct. 1975 (4 weeks)	Senior Research Project University of Pennsylvania Fabric Analysis Hickory Run State Park, Pennsylvania
1976	June – August	Detailed mapping of the North arm Mt. Massif, Bay of Islands Ophiolite Complex, Newfoundland – structure, tectonics and petrology
1977	June – August	
1978	June – August (40 weeks)	
1980	May – June 1980 (4 weeks)	Detailed mapping of a portion of Taconic Allochthon, Vermont
1981	June – August	Detailed mapping and sampling on the Blow-Me-Down Massif, Bay of Islands ophiolite, Newfoundland – structure, tectonics, petrology, paleomagnetism
1982	June – August	
1983	June – August	
1984	June – July (32 weeks)	
1984	August (3 weeks)	Detailed and Reconnaissance mapping and sampling within the Karsanti-Pozanti Ophiolite, Eastern Taurides, Turkey
1985	June – July	Mapping, paleomagnetic and geochemical sampling within the Humber Arm Sedimentary Allochthon
1986	July	
1987	July (19 weeks)	
1985	July – August	Detailed Mapping, Paleomagnetic and Geochemical Sampling in the Hatay Karsanti-Pozanti Ophiolites and Kirikan Rift Valley of Southeastern Turkey
1989	July – August	
1990	August (20 weeks)	
1981	1981 – present (35 weeks)	Reconnaissance Mapping in the Parras Basin and Sierra Madre Orientale, Northeastern Mexico
1995	(1 week)	Antalya Ophiolite, Turkey
1996	(2 days)	Iceland
2009	July 2009 (1 week)	Field work in the Dabi Shan High Pressure Metamorphic Rocks, Dabi Mountains, China
2010	March 2010 (4 days)	Mapping Extensional Structure in the Rio Grand Graben
2010	July (2 weeks)	Reconnaissance mapping and sampling, Shetland Islands Ophiolites and Northern Ireland Arc-like ophiolites.
2011	March 2011 (7 Days)	Field Work, Indio Ranch Research Station, West Texas
2012	3 weeks	Field Work, Big Bend National Park and Indio Ranch
2012	1 week	Field Work, Ophiolite of Anhui Province and Fuchuan, Shexian, China
2013-2017	6 Weeks	Field Work, Big Bend National Park
2014	4 weeks	Field Work, Squantum Tillite, Quincy MA.
2016	4 weeks	Mapping and Sampling, Bay of Island Ophiolite and Humber Arm Allochthon, Newfoundland
2017	4 weeks	Mapping and Sampling, Bay of Islands Ophiolite, Fleur De Lys, Humber Arm Allochthon

## PROFESSIONAL AFFILIATIONS

American Geophysical Union - member  
Geological Society of America - Fellow

## AWARDS, HONORS, RECOGNITION

1970 – 1974	Massachusetts State Scholarship
1970 – 1974	Full Academic Scholarship, University of Pennsylvania
1980	Distinguished Dissertation Award State University of New York at Albany
1981	Honors Convocation Award State University of New York at Albany
1990	Faculty Excellence Award University of Houston
1990	Commendation of Academic Achievement and Leadership Mayor and the City Council of Houston
1995 - 1996	Distinguished Lecturer Joint Oceanographic Institutes and U.S. Science Advisory Committee
1998	Chief Scientist, Leg 179 IODP
1998	Shell Interdisciplinary Scholar
2015	Fellow of the Geological Society of America
2020	Named to University of Pennsylvania's All-Wags 1970s Decadal Football Team
2022	U.S. Patent 11,460,408 B2 Method of Geochemical Characterization, etc.
2023	Listed among "Best Researchers in the Discipline of Earth Sciences" and rated 3rd among present departmental faculty, ranked at 1807 in U.S.. Rankings based on limited citation-based metrics until 2022 of <a href="https://www.research.com">research.com</a> . Citations better reflected in Google Scholar.
2023	Researchgate Research Interest Score is higher than 97% of all researchgate member researchers and listed higher than 98% of all researchers with work related to geology and higher than 97% in petrology. Citations better reflected in Google Scholar

## NATIONAL/INTERNATIONAL COMMITTEES

1989	Steering Committee: Workshop on "Drilling the Lower Oceanic Crust and Mantle", sponsored by the JOI-US Science Advisory Committee, the International Lithosphere Program Working Group on the Nature and Evolution of the Oceanic Lithosphere and Keck Geodynamics Program (Woods Hole Oceanographic Institution)
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1990 – 1993	Joint Oceanographic Institutes/U.S. Science Advisory Executive Committee (USSAC)
1991 – 1992	Offset Drilling Working Group. Ocean Drilling Project Committee to Assess Drilling Composite Sections of the Oceanic Crust and Upper Mantle
1993	UNOLS Review Panel – Use of Navy Submersibles
1994 – 1998	Site Survey Panel, Ocean Drilling Project (ODP) Review Panel
1996	Review Panel – Civilian Defense Research Fund for Former Soviet Union Scientists
2005-2016	3 Review Panels –Marine Geology and Geophysics, National Science Foundation
2005-2014	UCAR Member University of Houston Representative

#### **PH.D. DISSERTATION**

1980	The Geology of the Southern Half of the North Arm Mountain Massif, Bay of Islands Ophiolite Complex, Western Newfoundland with Application to Ophiolite Obduction and the Genesis of Plutonic Portions of the Oceanic Crust and Upper Mantle, State University of New York, Albany, 594pp. Advisor: John F. Dewey, F.R.S., Member U.S. Academy of Sciences
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#### **PATENTS**

2022	JF Casey, Y Gao, W Yang, LI Jiaxuan - US Patent 11,460,408, 2022 Method of geochemical characterization, production allocation, and monitoring using trace and ultra-trace element analysis.
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#### **PUBLICATIONS (Articles, Books Chapters, USGS Open File Reports)**

1. 1979 Nelson, K. D. and Casey, J. F., Ophiolitic detritus in the Upper Ordovician flysch of Notre Dame Bay and its bearing on the tectonic evolution of western Newfoundland: Geology, 7:27-31.
2. 1979 Casey, J. F., Karson, J., O'Connell, S., and Rosencrantz, E., Comment on “The seismic velocity structure of a traverse through the Bay of Islands Ophiolite Complex Newfoundland, an exposure of oceanic crust and upper mantle” by Mathew H. Salisbury and Nikolas I. Christensen: Journal of Geophysical Research, 84:6299-6300.
3. 1981 Casey, J. F., Dewey, J. F., Fox, P. J., Karson, J. A., and Rosencrantz, E., Heterogeneous nature of the oceanic crust and upper mantle: a perspective from the Bay of Islands Ophiolite Complex: in The Sea, V.III, Emiliani, C., Ed., John Wiley, p. 305-338. (65 Citations)
4. 1981 Casey, J. F. and Kidd, W.S.F., A parallochthonous group of sedimentary rocks overlying the Bay of Islands Ophiolite Complex on North Arm Mountain, western Newfoundland, Canadian Journal of Earth Sciences, 18-6: 2035-2050.

5. 1981 Casey, J. F. and Karson, J. A., Magma chamber profiles from the Bay of Islands Ophiolite Complex: Implications for crustal-level magma chambers at mid-ocean ridges, Nature, 292:295-301.
6. 1982 Casey, J. F. and Karson, J. A., "Magma chamber profiles from the Bay of Islands Ophiolite Complex" -- Matters Arising - Reply. Nature, 295:717.
7. 1982 Elthon, D., Casey, J.F., and Komor, S., Mineral chemistry of ultramafic cumulates from the North Arm Massif of the Bay of Islands Ophiolite: Evidence for high pressure of crystal fractionation of oceanic basalts, Journal of Geophysical Research, 87: 8717-8734.
8. 1983 Casey, J. F., Karson, J. A., Elthon, D., Rosencrantz, E., and Titus, M., Reconstruction of the geometry of accretion during formation of the Bay of Islands Ophiolite Complex, Tectonics, 2-6:509-528.
9. 1984 Elthon, D. and Casey, J. F., Comment on "Soret separation of mid-ocean ridge basalt magma" by D. Walker and S. E. Delong. Contributions to Mineralogy and Petrology, 85:197-202.
- 10 1984 Casey, J. F., and Dewey, J. F., Initiation of subduction zones along transform and accreting plate boundaries, triple junction evolution and forearc spreading centers: implications for ophiolite geology and obduction. In: Ophiolites and Oceanic Lithosphere, I.G. Gass, S.J. Lippard, and A.W. Shelton (editors), Blackwell, London, pp. 83-97. (104 Citations)
- 11 1984 Elthon, D, Casey, J.F., and Komor, S., Cryptic mineral chemistry variations in a detailed traverse through the cumulate ultramafic rocks of the North Arm Mountain massif of the Bay of Islands Ophiolite, Newfoundland. In: Ophiolites and Oceanic Lithosphere, I.G. Gass, S.J. Lippard and A.W. Shelton (editors), Blackwell, London, pp.269-290.
12. 1984 OTTER (Oceanographer Tectonic Research Team), The Geology of the Oceanographer Transform: the ridge-transform intersection. Marine Geophysical Research, 6:109-141.
13. 1984 Karson, J. A., Collins, J. A., and Casey, J. F., Geologic and seismic structure of the crust mantle transition in the Bay of Islands Ophiolite Complex. Journal of Geophysical Research. 89-B7:6126-6138.
14. 1984 Ghosh, N., Hall, S., and Casey, J. F., Seafloor spreading magnetic anomalies in the Venezuelan Basin. G.S.A. Memoir 162, The Caribbean-South American Plate Boundary and Regional Tectonics, edited by W.E. Bonnini, R.B. Hargraves, and R.Shagam, pp. 65-79.
15. 1984 Karson, J. A., Casey, J. F., Elthon, D.L., and Titus, M., Deformed and metamorphosed rock assemblages recognized in the Bay of Islands Ophiolite Complex. Ophioliti, 9 (3):463-486.

16. 1984 Ashabranner, D. E. and Casey, J. F., Computer modeling of complex seismic structures at mid-ocean ridges. Annual Report of the Allied Geophysical Lab, University of Houston, 14:492-509.
17. 1985 Elthon, D. and Casey, J. F., The very depleted nature of certain primary mid-ocean ridge basalts. Geochemica et Cosmochemica Acta, 49-1:289-298.
18. 1985 Ashabranner, D. E., and Casey, J. F., Analysis of seismic structure at fast spreading centers using ophiolite-derived geologic models of accretion. Annual Report of the Allied Geophysical Lab, University of Houston, 15:44-60.
19. 1985 Siroky, F., Elthon, D., Casey, J. F., and Butler, J., Modeling of crystal fractionation processes in diabases and basalts from the North Arm massif of the Bay of Islands Complex, Newfoundland. Tectonophysics, 116: 41-61.
20. 1985 Komor, S., Elthon, D. and Casey, J. F., Cryptic variations in layered cumulate ultramafic rocks of the North Arm massif, Bay of Islands Ophiolite, Newfoundland: characteristics of magmatic processes in the lower portions of mid-ocean ridge magma chambers. Journal of Geophysical Research, 90:7705-7736.
21. 1985 Casey, J. F., Elthon, D., Siroky, F. X., Karson, J.A., and Sullivan, J., Geochemical and geological evidence bearing on the origin of the Bay of Islands and Coastal Complex ophiolites of western Newfoundland. Tectonophysics, 116:1-40.
22. 1985 Komor, S.C., Elthon, D.E., and Casey, J. F., Serpentinization of cumulate ultramafic rocks from the North Arm Mountain massif of the Bay of Islands ophiolite. Geochemica et Cosmochemica Acta, 49:2331-2338.
23. 1985 OTTER (Oceanographer Tectonic Research Team), The geology of the Oceanographer Transform: the transform domain. Marine Geophysical Research, 7:329-358.
24. 1985 Ashabranner, D. and Casey, J.F., Further computer modeling of the seismic structure of fast spreading centers using ophiolite-derived geologic models of accretion. Annual Report of the Allied Geophysical Lab, 16:207-229.
25. 1986 Hall, S., Casey, J. F., and Elthon, D., A possible explanation of gravity anomalies over mid-ocean ridges. Journal of Geophysical Research, 91:3724-3738.
26. 1986 Elthon, D., Karson, J.A., Casey, J. F., Sullivan, J., and Siroky, F.X., Geochemistry of diabase dikes from the Lewis Hills massif, the Bay of Islands Ophiolite: evidence for partial melting of oceanic crust in transform faults. Earth and Planetary Science Letters, 78:89-103.
27. 1987 Komor, S. C., Elthon, D., Casey, J. F., Petrology of a leucogabbroic interval within basal layered gabbros at North Arm Mountain, Bay of Islands Ophiolite. Contributions to Mineralogy and Petrology, 95:278-300.



28. 1987 Karson, J. A., G. Thompson, S. E. Humphris, J. M. Edmond, W. B. Bryan, J. R. Brown, A. T. Winters, R. A. Pockalny, Casey, J.F., A. C. Campbell, G. Klinkhammer, M. R. Palmer, R. J. Kinzler, and M. M. Sulanowska, Along-axis variations in seafloor spreading in the MARK area, Nature, 328, 681-685. (164 Citations)
29. 1988 Campbell, A.C., Palmer, M.R. Klinkhammer, G.P., Bowers, T.S., Edmond, J.M., Casey, J. F., Lawrence, J.R., Thompson, G., Humphris, S., Rona, P., Karson, J.A., Chemistry of hot springs on the Mid-Atlantic Ridge: TAG and MARK Sites, Nature, 335:514-519.
30. 1989 Lindholm, R. and Casey, J. F., Regional tectonic significance of the Blow Me Down Brook Sandstone: new fossil evidence of an early Cambrian age. Geological Society of America Bulletin, 101: 1-13.
31. 1990 Beauboeuf, R., Casey, J.F., Hall, S.A., Evans, I., A paleomagnetic investigation of the Lower Ordovician St. George Group, Port au Port Peninsula, Newfoundland: Evidence for a late Paleozoic remagnetization and implications for the Iapetus Ocean, Tectonophysics 182:337-356.
32. 1990 Lindholm R. and Casey, J.F., The distribution and biostratigraphic significance of the ichnogeneous Oldhamia and other trace fossils in the shales of the Blow Me Down Brook Formation, western Newfoundland, Canadian Journal of Earth Sciences, 27:1270-1287.
33. 1991 Bird, D. E., Hall, S. A., Casey, J. F., and Millegan, P. S., 1991, Integrated geophysical interpretation of the Grenada Basin: in, Expanded Abstracts of the Technical Program, SEG 61st Annual International Meeting and Exposition, 172-175.
34. 1991 Jonas, J., Hall, S.A., Casey, J.F., Gravity anomalies over extinct mid-ocean ridge spreading centers, Journal of Geophysical Research, 91:3724-3738.
35. 1991 Casey, J.F. and Dmitriev, L., Ridge Activities of the Soviet Union, Ridge Newsletter.
36. 1991 Silantyev, S.A, Makakjan, R., Zlobin, S.K., Gurenko, A.A., Basylev, B., Koshkin, A.V., Tsamerjan, O.P., Bogdanovski, O.G., Klitgord, K., Casey, J.F., Bryan, W., Agar, S. New data on the construction of the oceanic crust in the Central Atlantic, 30°-34°N, Reports of the Russian Academy of Sciences 317(6);1443-1446.
37. 1991 Klitgord, K., Casey, J.F. , Silnatyev, S. Bryan, W., Agar, S, 16 Cruise of the R/V Boris Petrov (Leg 1), U.S. Soviet Collaborative Geological and Geophysical Survey of the Mid-Atlantic Ridge between 30-34°N, U.S. Geological Survey Open File Report, 91-120: 1-21.
38. 1992 Casey, J.F. Casey, J.F. , Cannat, M, Bougault, H. Mid-Atlantic Ridge Survey Opens New Windows to Offset Drilling, JOI USSAC Newsletter, p. 1-4.

39. 1992 Silantyev, S.A, Basylev, B., Klitgord, K., Casey, J.F. , Kuz'min, M., Lomakin, I.E., Sborshchikov, I. Composition of Layer Three of the Oceanic Crust, North Atlantic, 40°-51°N. Russian Academy of Sciences, 12:1415-1436
40. 1993 Lytwyn, J. and Casey, J.F. , The geochemistry and petrogenesis of volcanics and sheeted dikes in the Hatay (Kizildag) Ophiolite, southern Turkey: possible formation with the Troodos Ophiolite, Cyprus along fore-arc spreading centers, Tectonophysics 223: 237-272
41. 1993 Bird, D., Hall, S., Casey, J.F. and Millegan, P.S., Interpretation of Magnetic Anomalies over the Grenada Basin, Tectonics, 12:1267-1279.
42. 1994 Bryan, W., Humphris, S., Thompson, G., Casey, J.F. , Comparative Volcanology of Small Axial Eruptive Centers in the MARK Area, Journal of Geophysical Research 99:3013-3029. (41 Citations)
43. 1995 Leg 153 Shipboard Scientific Party, Probing the Foundation of the Mid-Atlantic Ridge, EOS, 76-13: 129-133.
44. 1995 Leg 153 Shipboard Scientific Party, Initial Reports of the Ocean Drilling Project. Leg 153, p 1-520 (Book).
45. 1995 Cannat, M. and Casey, J.F. An Ultramafic Lift at the Mid-Atlantic Ridge: Successive Stages of Magmatism in Serpentinized Peridotites from the 15°N region, in: Vissers and Nicholas, A. (Eds.), Mantle and Lower Crust Exposed in Oceanic Ridges and Ophiolites, Kluwer Academic Publications, p. 5-34. (85 Citations)
46. 1995 Lytwyn, J. and Casey, J.F. , The geochemistry and petrogenesis of post-kinematic mafic dike swarms and metamorphic sole amphibolites, Pozanti-Karsanti Ophiolite, Turkey: Evidence for Ridge Subduction, Geological Society of America Bulletin, 107:830-850.
47. 1995 Polat, A. and Casey, J. F., Neotethyan Aladag accretionary complex: a structural record of the emplacement of the Pozanti Karsant Ophiolite on to the Menderes-Taurus Block, eastern Taurides, Turkey, Journal of Structural Geology, 17(12):1673-1688.
48. 1995 Silantyev, S., Casey, J.F. and Smith, S.E., Composition and metamorphic conditions of rocks from Layer 3 of the oceanic crust in the offset portion of the Hayes Fracture Zone, Central Atlantic, Petrology, 3:424-439.
49. 1996 Silantyev, S., L. Dmitriev, L.V., Levsky, Lk, Casey, J.F. , Basilev, B.A., Bougault, H., Residual Peridotites from the 15°20' Fracture Zone, Mid-Atlantic Ridge-A possible analogue for ancient metasomatized mantle below St Paul's Rock in: Udinsev, G.B. ed., Equatorial Segment of the Mid-Atlantic Ridge, IOC Technical Series no. 46, Unesco, p. 95-98.

50. 1996 Polat, A., Casey, J.F. , and Kerrich, R, Geochemical characteristics of accreted material beneath the Pozanti-Karsanti ophiolite, Turkey: Intra-oceanic detachment, assembly, and obduction, Tectonophysics, 263:249-276.
51. 1996 Perfit, M.R., Fornari, D., Ridley, W.I., Kirk, P., Casey, J.F. , Kasetns, K.A., Reynolds, J.R., Edwards, M., Desonie, , D., Shuster, R., and Paradis, S., Recent Volcanism in the Siqueiros Transform Fault: Picritic Basalts and Implications for MORB magma genesis, Earth and Planetary Science Letters, 141:91-108. (79 Citations).
52. 1996 Polat, A., Kerrich, R. and Casey, J.F. , Geochemistry of Quaternary basalts erupted along the East Anatolian and Dead Sea fault zones of southern Turkey: Implications for mantle sources, Lithos 517, 1-13.
53. 1996 Silantyev, S., L. Dmitriev, L.V., Casey, J.F. , Basilev, B.A., Bougault, H., Levsky, L.K., An examination of genetic conformity between co-existing basalt, gabbro, and residual peridotites from 15°20'N Fracture Zone, Central Atlantic: Evidence from Isotope Compositions of Sr, Nd, and Pb. InterRidge Newsletter, 4(2), p. 18 - 21.
54. 1997 Cannat, M., Gabrielle, Y, Bougault, H., Casey, J. F., de Coutures, N., Dmitriev, L., Fouquet, Y., Ultramafic and gabbroic exposures at the Mid-Atlantic Ridge: Geological mapping in the 15°N region, Tectonophysics 279:193-213. (108 Citations)
55. 1997 Casey, J. F., Comparison of major, trace, and rare earth element geochemistry of Leg 153 abyssal peridotites and mafic plutonic rocks with basalts from the MARK region of the Mid-Atlantic Ridge, in Karson, J., Cannat, M., Miller, J and Elthon, (Eds).; Proceedings of the Ocean Drilling Project, Scientific Results, Vol. 153, p181-241.
56. 1997 Kempton, P and Casey, J.F. , Petrology and geochemistry of cross-cutting diabase dikes, Sites 920 and 921, ODP Leg 153, in Karson, J., Cannat, M., Miller, J., and Elthon, (Eds).; Proceedings of the Ocean Drilling Project, Scientific Results, Vol. 153, p363-377.
57. 1997 Agar, S., Casey, J.F. , and Kempton, P., Textural, Geochemical, and Isotopic Variations in Gabbroic Shear Zones From the MARK Area: in Karson, J., Cannat, M., Miller, J., and Elthon, (Eds). Proceedings of the Ocean Drilling Project, Scientific Results, Vol. 153, p99-121.
58. 1997 Lytwyn, J, Casey, J.F. , Gilbert, S., and Kusky, T., Arc-like MORB formed seaward of a trench-forearc system during ridge subduction: an example from sub-accreted ophiolites in Southern Alaska, Journal of Geophysical Research 102:10,225-10,243.
59. 1998 Casey, J.F. , Pettigrew, T.J., Miller, F.J., Leg 179 Preliminary Report: Ocean Drilling Program, No. 79:1-28 (<http://www-odp.tamu.edu/publications>).
60. 1998 Smith, S. E., Casey, J. F., Bryan, W. B.; Dmitriev, L.; Silantyev, S.; Magakyan, R., Geochemistry of basalts from the Hayes Transform region of the Mid-Atlantic Ridge, Journal of Geophysical Research, Volume 103, Issue B3, p. 5305-5329.

61. 1998 Bird, D. E., Hall, S. A., Casey, J. F., and Millegan, P. S., 1998 Interpretation of magnetic data at low latitudes: potential pitfall: in, Millegan, P. S., and Gibson, R. I. (Editors), Geologic Applications of Gravity and Magnetism: Case Histories: AAPG Studies in Geology, No. 43 / SEG Geophysical Reference Series, No. 8, 53-57.
62. 1998 Casey, J.F. , Miller, J. and Leg 179 Scientific Party, Leg 179: Hole 1105A and NERO Hole 1107A, JOIDES Journal, 24:15-18.
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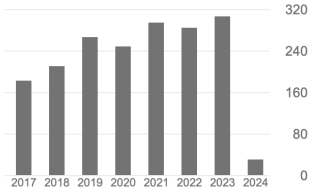





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129. 2007 [J F Casey](#), R Searle, C MacLeod, B Murton, RV James Cook Scientific Party, Magma Starvation, Extensive Development of Oceanic Core Complexes, and Evidence of High Degrees of Melting in a Region of Low Magmatic Production on the Mid-Atlantic Ridge at 13°-14°N, Eos Trans. AGU, 88(52), Fall Meet.
130. 2007 R Searle, C MacLeod, B Murton, C Mallows, [J Casey](#), K Achenbach, S Unsworth, M, Harris, Development of Oceanic Core Complexes on the Mid-Atlantic Ridge at 13-14°N: Deep-Towed Geophysical Measurements and Detailed Seafloor Sampling, Eos Trans. AGU, 88(52), Fall Meet.
131. 2007 B Murton, S Unsworth, M Harris, C MacLeod, R Searle, [J Casey](#), K Achenbach, C Mallows Fluid flow at active oceanic core complexes, 13°N Mid-Atlantic Ridge, Eos Trans. AGU, 88(52), Fall Meet.
132. 2007 Gao, Y., Hoefs, J., Copper, KM, Laverne, C., Teagle, DA Banerjee, NR, Alt, JC, [Casey, JF](#), Lithium and Oxygen Isotopic Composition of the Oceanic Crust formed at a Superfast Spreading Ridge, Hole 1256D, Eos Trans. AGU, 88(52), Fall Meet. Suppl.
133. 2007 Barzoi, C. A.; [Casey, J. F.](#); Gao, Y.; Lapen, T. Trace Element Study of MORB Glasses from 14°- 16°N along Mid-Atlantic Ridge by LA-ICP- MS, Eos Trans. AGU, 88(52), Fall Meet.
134. 2007 J Huang, [J F Casey](#), Y Gao Trace Element Geochemical Signature of Basalts and Diabases from the Bay of Islands Ophiolite in Western Newfoundland, Eos Trans. AGU, 88(52), Fall Meet.
135. 2008 Bird, D. E., Hall, S. A., Burke, K., [Casey, J. F.](#), and Sawyer, D. S., 2008, Mesozoic seafloor spreading history of the Central Atlantic Ocean: Conjugate Margins Conference, Dalhousie Univ., Halifax, Nova Scotia.
136. 2008 [Casey, J F](#) and Gao, Y Ultradepleted Residual Mantle Refertilized by Enriched Percolating Melt Within Megamullion-rich Segments of the Mid-Atlantic Ridge Between 13 and 16°N, Eos Trans. AGU, 89(53), Fall Meet.
137. 2008 [Casey, J F](#) , Gao, Y, and Snow, J. Isotopic fractionation of Li during cooling of mantle peridotite from Gakkel Ridge. Eos Trans. AGU, 89(53), Fall Meet.
138. 2008 R Searle, C MacLeod, B Murton,, [J Casey](#), K Achenbach, S Unsworth, M Harris, C Mallows: [Cycle of Oceanic Core Complexes](#) Eos Trans. AGU, 89(53), Fall Meet
139. 2008 [John F. Casey](#) , Yongjun Gao , Roger C. Searle, Christopher MacLeod , Bramley J. Murton and James Cook 007 Scientific Party R.V. James, A Slow Spreading Ridge with Ultra-Slow Melt Supply Characteristics: The Mid-Atlantic Ridge at 12°-16°N. 2008 GSA Annual Meeting Abstracts with Programs, Houston, TX.
140. 2008 Carmen A. Dragoi, [John F. Casey](#), Yongjun Gao and Tomas Lapen Trace Element Geochemistry of MORB Glasses from 14°-16°N along Mid-Atlantic Ridge, 2008 GSA Annual Meeting Abstracts with Programs, Houston, TX.

141. 2008 Gao, Y., [John F. Casey](#) and Jonathan E. Snow, Lithium Isotopic Systematics in Minerals from Fresh Abyssal Peridotite at Gakkel Ridge: Subsolidus Diffusive Fractionation Versus Melt-Rock Interaction 2008 GSA Annual Meeting Abstracts with Programs, Houston, TX.
142. 2008 Dale E. Bird, Kevin Burke, Stuart A. Hall and [John F. Casey](#) Triassic – Jurassic kinematics of the Gulf of Mexico, Central Atlantic Ocean, and North America, 2008 GSA Annual Meeting Abstracts with Programs, Houston, TX.
143. 2008 [J F Casey](#), R Searle, C MacLeod, and B Murton, Extensive Core Complex Formation in a Magma Starved Segment of the the Mid-Atlantic Ridge Between 12°-16°: Strain Softening and a Coupled Crust-Mantle Rheology, 2008 GSA Annual Meeting Abstracts with Programs, Houston, TX.
144. 2009 [Casey, J.F.](#) and Dewey, J.F. The Ophiolite Paradox Resolved: GSA Abstracts, Portland GSA Annual Meeting
145. 2009 U: Xiong, Y, Khan, S D, : [Casey, J.F.](#), U: Mahmood, Gao, Y, Trace element geochemistry and tectonic implications of the volcanic rocks from the Bela ophiolite, western Pakistan. *Eos Trans. AGU*, 90(52), Fall Meet. Suppl., Abstract.
146. 2009 [Casey, J.F.](#) and Dewey, J.F. The Ophiolite Problem, Is It Really a Problem? 90(52), Fall Meet. Suppl., Abstract.
147. 2010 J.F. Casey Controls of Magma Supply and Core Complex Formation between 12-16°N on the Mid-Atlantic Ridge, Chapman Conference Abstracts, Cyprus
148. 2010 [Casey, J.F.](#), Gao, Y, Benavidez, R, Dragoi, C, The Lowest  $\delta^7\text{Li}$  Yet Recorded in MORB Glasses: The Connection with Oceanic Core Complex Formation, Refractory Rutile-bearing Eclogitic Mantle Sources and Melt Supply. AGU 2010 Fall Meeting Abstract.
149. 2011 Barry J. Shaulis, B.J., Lapen T.J., [Casey, J.F.](#), Douglas Reid. New constraints on the age and depositional rates of initial flysch sedimentation in the Stanley Group, Ouachita Mountains, Oklahoma and Arkansas, AGU 2011 Fall Meeting Abstracts
150. 2012 Barnard, A., Casey, J., Chang, T. and Murton, B., 2012. The impact of mantle heterogeneity on oceanic core complex formation, 12-16° N, Mid-Atlantic Ridge. AGU Fall Meeting Abstracts, 1: 1721.
150. 2012 Gittens, Casey, , and Lapen Detrital Zircon Geochronology of Cambro-Ordovician Siliciclastic Units of the Humber Arm Allochthon, AGU Fall Meeting Abstracts
151. 2013 Casey, J. and Dewey, J., 2013. Arc/Forearc Lengthening at Plate Triple Junctions and the Formation of Ophiolitic Soles, EGU General Assembly Conference Abstracts, pp. 13430.
152. 2013 Barnard, A. and Casey, J., Identification and Analysis of Methane Plumes from the Barbados Accretionary Complex Identified in Multibeam Sonar Data. AGU Fall Meeting Abstracts, 1: 1746.
153. 2013 Davidson, M., Casey, J. and Lapen, T., 2013. Regional Variation in the Timing of Cessation of Laramide Folding, Uplift, and Post Flat-Slab Ignimbrite Flare Ups in West Texas. AGU Fall Meeting Abstracts, 1: 2606.
154. 2014 Xiao, Y., Gao, Y., Teng, F., Sun, H., Lapen, T.J., Andreason, R., Casey, J. and Gu, H.-O., . Extreme Lithium Isotopic Fractionation Between Quartz and Garnet in Leucogranites: Implications for The Li System during subduction and crustal magma processes. GSA Annual Meeting in Vancouver, British Columbia.
155. 2015 Casey, J.F., Gao, Y., Yang, W., Analysis of low abundance trace metals and  $^{50}\text{V}/^{51}\text{V}$  isotopes in crude oils: new methods for characterization and exploration. Goldschmidt 2015, Prague.



- 156     2015     Casey, JF, Gao, Y, Zhang, X, Dewey, JF, Plate Accretion of the Ordovician Bay of Islands Ophiolite and Hot Subduction/Subcretion During the Evolution of a Fore-arc R-TR-TR Triple Junction as the Taconic Arc Encroached Upon Laurentia, GSA Abstracts and Programs, Vol.7:No.7, p238

## WEBINARS

1	2015	Casey, J.F., and Gao, Y, Triple Quadrupole ICP-MS and ICP-OES Fingerprinting of Up to 57 Trace Elements Using a Single Sample Preparation Method (available American Chemical Society at <a href="http://cen.acs.org/media/webinar/agilent_102015.html">http://cen.acs.org/media/webinar/agilent_102015.html</a> )
2	2016	Casey, J. F. and Gao, Y. Single-Reaction-Chamber Microwave Digestions of Crude Oil and Other Geological Materials. Spectroscopy Webinar Series. .

## FUNDED PROJECTS

- April 1, 1981 –  
March 31, 1983     J. F. Casey, D. Elthon, J. Karson – P.I.s  
Geological, Petrological and Geochemical Study of Ophiolitic rocks of the Bay of Islands Ophiolite Complex of Western Newfoundland.  
National Science Foundation, Grant EAR-80-26445 - \$108,387
- October 1, 1984 –  
March 31, 1987     J.F. Casey and D. Elthon – P.I.s  
(Performance-Based Renewal) Same project as above (Amount includes two National Science Foundation. Grant EAR-83-09535 (Renewal) - \$158,800
- April 1, 1984 –  
March 31, 1985     J.F. Casey – P.I.  
Geological study of the Tauride Ophiolites of Turkey  
Research Initiation Award - University of Houston - \$5,000
- April 1, 1987 –  
September 30, 1989     J.F. Casey – P.I.  
Petrological, Stable Isotope, and Structural Studies of ALVIN Recovered Peridotites From the Mid-Atlantic Ridge,  
National Science Foundation, Grant OCE-87-003 - \$84,715
- April 15, 1988 –  
March 31, 1991     J.F. Casey – P.I.  
Structural and Petrological Investigation of Four Tauride Ophiolites: Implications for the Evolution of Neo-Tethys and the ‘Ophiolite Controversy’.  
National Science Foundation, Grant EAR-87-21166 - \$90,000
- May 1, 1988 –  
July 31, 1991     J.F Casey – P.I.  
Structural and Stratigraphic Study of the Humber Arm Allochthon of Western Newfoundland: Implications for stable margin development, obduction, accretion, and melange formation.  
National Science Foundation, Grant EAR-88-04756 - \$53,000
- December 15, 1989  
May 30, 1991     J. F. Casey and J. Lawrence – P.I.s  
Acquisition of an Inductively Coupled Plasma Emission Spectrometer.  
National Science Foundation, \$40,600 + \$40,600 University Match.
- June 15, 1991 –  
May 14, 1992     J.F. Casey and I. Evans – P.I.s  
Acquisition of an ICP Automatic Sample Changer ,  
Energy Lab, University of Houston - \$5000

February 15, 1991 – June 15, 1993	J.F. Casey – P.I. Alvin Diving in the Intra-transform Spreading Centers of the Siqueiros transform. National Science Foundation Grant OCE-91-06231 - \$51,352
May 15, 1992 – May 15, 1993	J.F. Casey – P.I. Nautilie Submersible Diving and SIMRAD Survey of the 15°20' Transform, Mid-Atlantic Ridge,. Joint Oceanographic Inc./ U.S. Science Advisory Committee, Site Augmentation Grant - \$15,300
June 1, 1992 – May 31, 1995	J.F. Casey – P.I. Tectonic and Magmatic Segmentation of the Mid-Atlantic Ridge: A U.S. - Soviet Cooperative Study. National Science Foundation, Grant OCE-92-04105 - \$152,860
1993-1994	J.F. Casey, M. Cannat, C. Mevel, Karson, J. – P.I.s Offset Drilling in the MARK Region of the Mid-Atlantic Ridge. This is not an overhead-generating project to the University of Houston. Funded by the International Ocean Drilling Program Ocean Drilling Project, Leg 153 (administered by TAMRF-ODP-NSF)
October 1, 1993 – September 30, 1996	J.F. Casey – P.I. Leg 153 Drilling, Ocean Drilling Project TAMRF-ODP-National Science Foundation \$24,889
August 1, 1994 – July 30, 1996	J.F. Casey – P.I. Geochemical and Petrological Studies of Leg 153 Mafic and Ultramafic Rocks. JOI-USSAC-National Science Foundation - \$24,648
September 28, 1994 December 28, 1996	J.F. Casey – P.I. Leg 157 Drilling, Ocean Drilling Project TAMRF-ODP-National Science Foundation \$11,513
January 1, 1995 – June 31, 1997	J.F. Casey – P.I. Geochemical and Petrological Study of the Cherry and Brushy Canyon Formations, Delaware Basin, West Texas. Exxon Production and Research Company - \$4,000
May 1, 1996 – April 1, 1997	J.F. Casey and H. Zhou – P.I.s Establishment of a technology-rich classroom: a proposal for 18 IBM RISC System 6000 Unix workstations w/64MB RAM. IBM/VP for Information Technology Grant Hardware Grant - \$160,000
September 1, 1996 August 31, 1997	J.F. Casey – P.I. Implementation of a campus-wide multi-disciplinary (GIS) Geographic Information System Provost Interdisciplinary Research Grant, University of Houston - \$60,000
February 1, 1995 – January 1, 1996	John F. Casey and S. Smith – P.I.s Igneous petrology and geochemistry of basalts from the TAG Hydrothermal mound region (26°N), Mid-Atlantic Ridge. JOI-USSAC-National Science Foundation - \$18,980

September 1995 – August 1998	J.F. Casey and G. Cameron – P.I.s Implementation of a GIS (Geographic Information System) at the University of Houston: Installation of a 15 Floating Seat Licenses of ARCINFO and ArcView GIS Software, ESRI - \$27,000 (software grant)
April 21, 1997 – July 21, 1997	J.F. Casey and S. Smith – P.I.s Participation in Leg 173 TAMRF-ODP-National Science Foundation - \$13,387
September 1, 1993 – January 15, 1998	John F. Casey – P.I. Geological and Geophysical Data Synthesis, Caspian Sea Region, Amoco, Eurasia, \$106,467
January 1, 1995 – January 15, 1998	John F. Casey – P.I. Russian Oil Provinces Amoco, Eurasia - \$28,496
September 1, 1997 – January 15, 1998	John F. Casey – P.I. Geological and Geophysical Study of Sakhalin Island Exxon Exploration (CIS) - \$18,000
February 1, 1998 – January 31, 2000	John F. Casey – P.I. Whole Rock Geochemical Study of Mafic Igneous Rocks and Sedimentary Rocks cored in the OCT of the Iberian Margin, Leg 173
March 1, 1998 – February 28, 2001	John F. Casey – P.I. Participation in Leg 179, Chief Scientist, Hammer Drilling/NERO Seismometer Emplacement , TAMRF-ODP-National Science Foundation, \$69, 214
April 1, 1998 – March 31, 2000	John F. Casey – P.I. ODP Site Survey via Submersible and Geophysical Observations: JAMSTEC/ WHOI Expedition to the Mid-Atlantic Ridge from 14° to 16°N National Science Foundation, UH Subcontract from Woods Hole Oceanographic Institution - \$50,000
June 1, 1998 – May 31, 1999	John F. Casey, Michelle Micheaux Foss, Everett Gardner, Paul Gregory – P.I.s Best Practices in Energy Sector Reform, Shell Interdisciplinary Scholars Grant, \$100,000
March 1, 1998 – February 28, 2001	John F. Casey – P.I. Participation in Leg 179 for Z. Guo - Hammer Drilling/NERO Seismometer Emplacement TAMRF-ODP-National Science Foundation, \$11,810
February 1, 1999 – January 31, 2001	John F. Casey – P.I. Downhole geochemical and structural studies of gabbroic rocks from Hole 1105A, Atlantis Bank, Southwest Indian Ridge TAMRF-ODP-National Science Foundation - \$26,780
February 1, 1998 – January 31, 2001	John F. Casey – P.I. Magma Chamber Processes from detailed geochemical studies of oceanic gabbroic and silicic rocks from Hole 1105A, TAMRF-ODP-National Science Foundation, \$19,187



January 2001	Co-Author IODP Proposal with Peter Kelemen Drilling Mantle Peridotite Along the Mid-Atlantic Ridge from 14-16°N Funded as IODP Leg 209, November 2002.
May 1, 2003 – April 28, 2004	John F. Casey – P.I. Participation in Leg 209, Mantle Drilling in the 15°20' Region, TAMRF-ODP-National Science Foundation, \$54,551.00
January 15, 2005 – May 14, 2006	John F. Casey – P.I. Bulk Rock and Mineral Major and Trace Element Chemistry of Leg 209 Gabbroic and Ultramafic Rocks. TAMRF-ODP-National Science Foundation, \$21, 681
July 10, 2005 – August 25, 2006	John F. Casey – P.I. Participation in Leg 309, Joint Oceanographic Institutions, Inc. JOI-IODP Flow Thru National Science Foundation, \$12,779
December 1, 2005 – November 30, 2007	John F Casey – P.I. Down-Hole Major, Trace, and Isotopic Variation of Whole Rocks and Minerals in IODP Hole 1256. JOI-IODP, \$24,928.00
February 15, 2004 – January 29, 2009	John F. Casey – P.I. "Seafloor Magmatic Construction - A LA ICPMS Based Study." National Science Foundation - \$196,660
January 19, 2009 – January 18, 2012	Thomas Lapen (Principal Investigator), John Casey Co-Principal Investigator), Jonathan Snow (Co-Principal Investigator), Michael Murphy (Co-Principal Investigator) Acquisition of a Multiple-Collector Inductively-Coupled Plasm Mass Spectrometer, National Science Foundation, \$269,658 (with an additional \$300,000 in matching funds from UH VP of Research)
September 1, 2012- August 31, 2018 (extension)	John F. Casey and K. Adry Bissada, P.I.s Acquisition of Agilent Instrumentation including 1) 4100 MP-ICP-AES, 2) 725 ICP-OES, 3) 5975 GC-MS, 4) 7000 GC-QQQ, 5) 7200 GC-Q-TOF Agilent Technology -Instrumentation, Agilent Corporation, \$3,300,000 over 3 years.
February 1, 2015- January 31, 2018	John F. Casey, PI Aquisition of Ultrawave Microwave Digestion System Milestone, Inc. \$100,000.
August 1, 2015 Feb. 28, 2018 (Renewed, March 2017)	John F. Casey, PI Acquisition of Agilent QQQ-ICP-MS Agilent Instrumentation (\$350,000), Sponsor Agilent Technologies

Sept 1, 2015- August 31, 2016	Goloshubin, G. and John F. Casey, PI Trace Metal and Vanadium Isotope Analysis of West Siberian Crude Oil to Establish Source Rock Formation and Biomass Type. Subcontract \$5,000 +2 years RA support West Siberian Research Institute of Geology and Geophysics, RA Support for Marina Krutzenova
March 1, 2017 Feb. 28, 2019	John F. Casey, K. Adry Bissada, Y. Gao. Major, Trace and V Isotope Geochemical Analysis of Cored Shale, Extractable Organic Material and Crude Oil from Four Associated Wells: Evaluation of Paleoredox, Paleoproductivity, Paleoenvironment, Production Allocation and Reservoir Depletion (EP Energy). \$290,000 Start: March 15, 2017/ UH _Continuing_Ongoing
Feb 1, 2017	John F. Casey Field Program: Chronological, Deformational, and Geochemical Studies related to the Formation and Obduction of the Bay of Islands Ophiolite and the Little Port-Coastal Complex-Lushs-Bight Forearc Terranes, Newfoundland \$22,800

#### **Recent Proposals Submitted/Not Funded**

John F. Casey - PI, Yongjun Gao - Co-PI  
Collaborative Proposal: Hydrothermal Activity, Melt Productivity and Lithospheric Architecture Associated with the Tectonic Evolution of Two Oceanic Core Complexes Along the Mid-Atlantic Ridge. National Science Foundation \$441,568 (UH portion), \$1,230,000 Total (under revision)

(PIs) John F. Casey and Frieder Kelin  
(CoPIs) Suzanne Baldwin, John F. Dewey, Christopher German, Yongjun Gao, Thomas Lapen, William Orsi, Jeffrey Seewald, Robert Sohn, Tim Shank, Margaret K. Tivey, and Maurice Tivey. Present-day Forearc Ophiolite Formation and Deep Hydrothermal Activity near the Challenger Deep Ridge-Trench-Trench Triple Junction"  
Submitted to the Schmidt Ocean Institute (4 weeks ship time): "2017 Research Aboard the R/V Falkor." (Review delayed because full ocean depth AUV vehicle loss at sea and new construction delay)

John F. Casey (PI), Coupled Investigation of Trace Elements and Vanadium Isotopes in Crude Oil. (submitted to the American Chemical Society, Petroleum Research Fund), \$110,000

#### **OTHER RELATED FUND RAISING, FACILITIES, COMMUNITY ENGAGEMENT, and EDUCATIONAL ACCOMPLISHMENTS**

Negotiated in 1996 a campus/system-wide (4 campus-site) agreement with ESRI GIS software worth \$100,000,000 per year in equivalent software donations (up to 35,000 Licenses for students and faculty)- still in effect in 2019).

As chair, arranged other Departmental Software Agreements Worth >\$4,250,000 per year with (1999-Present)

e.g., Schlumberger  
Halliburton

SMT  
Paradigm  
others

As chair, established Departmental Endowments now worth over ~\$3,500,000 through educational programs and donors.

As chair, established permanent UH-Yellowstone Big Horn Research Association Field Camp for the Earth and Atmospheric Science Department, University of Houston in 2009, operational to the present (2019).

As chair, raised scholarship funding for undergraduate and graduate students, Dispersed ~ \$1,200,00 in scholarship funds between 1999 and 2012.

Assisted in establishing two endowed alumni scholarships (\$60,000) and two Professorships (\$500,000 each).

Established High Performance Geoscience Computing Center (1995-present)

As chair, established a summer permanent field camp location at the YBRA camp in Montana (2 Geology 6-week camps, and one Geophysics 3-week camp) (2005-2017).

As chair established the Geoscience Learning Center - 8-5pm Tutoring and Retention Center in Geosciences (1999-Present)

As chair, Established The Sheriff Lecture in 2000 (To Present): An Annual Lecture in Honor of Dr. Robert Sheriff in collaboration with the Houston Geological Society and the UH Geosciences Alumni Association. (2000-Present).

Established ongoing Industrial Relationship and MOU with Agilent Corporation resulting in \$3,300,000 instrumentation (2012-Present)

Established Industrial Funding Relationship with Chevron for monetary gift to fund a Delta 6 Stable Isotope Mass Spectrometer + GC (\$530,000) (2012)

Established ongoing Industrial Relationship and MOU with Milestone, Inc. resulting in geochemical digestion and acid distillation equipment gifts (\$135,000) (2014-Present)

Oversaw as Chair of Department (1999-2012) the a six-fold growth in Departmental tenure line and research faculty, 6 fold growth in external research funding, and a 7-fold growth in major enrollment at both the undergraduate and graduate levels.

Oversaw as Chair of Department (1999-2012) growth in Departmental enrollment to become the largest U.S. Geosciences Department in the U.S. with over 700 undergraduate and graduate majors.

Oversaw as Chair of Department (1999-2102) growth in graduation and quality of Ph.D. programs in Geology and Geophysics to become the only department in the State with two NRC ranked Ph.D. programs (in both Geology and Geophysics).

As Chair of the Department, I oversaw proposal review, establishment and applications for both M.S. and Ph.D. programs in Atmospheric Sciences, and undergraduate B.S. in Environmental Sciences (2003-Present)

As Chair of the Department, established non-thesis applied M.S. degree programs in Geology and Geophysics for working professionals that is taught in Houston and in world-wide venues, e.g., South Africa, Venezuela, Mexico, Russia (2000-Present).

As Chair, established a “Geophysics Summer Short Course Program” taught by faculty (2003 - 2014) attended by Petrobras and other petroleum corporations.

As Chair of the Department oversaw the establishment of 5 new industrial consortium and non-industrial research institutes (four exceeding \$800k per annum each in research funding).

Co-established a Shale and Petroleum Geochemistry Consortium in 2019 (3 companies).

## **EDUCATION, TEACHING AND STUDENT LEARNING/SUCCESS**

### **ADMINISTRATIVE OVERSIGHT AND DEVELOPMENT OF DEGREE PROGRAMS AS CHAIR OF THE DEPARTMENT (1999-2012)**

#### **PROGRAMS Supervised and Established as Chairman**

1. B.S. Geology
2. B.A. Earth Science for Earth Science Teachers
3. B.S. Geophysics
4. B.S. Environmental Sciences - Geology or Atmospheric Sci. Concentration (Established 2006)
5. M.S. Geology
6. M.S. Geophysics
7. M.S. Atmospheric Sciences (New: established 2010)
8. M.A. Geosciences
9. M.S. Professional: Geology (New: established 2003)
10. M.S. Professional: Geophysics (New: established 2003),
11. Ph.D. Geology
12. Ph.D. Geophysics
13. Ph.D. Atmospheric Sciences (established 2010)
14. M.S. Professional Geology Program (PDVZA, Venezuela)-Extension
15. M.S. Professional Geology Program (PEMEX, Mexico)-Extension
16. M.S. Professional Geophysics Program (University of Cape Town, South Africa)-Extension

#### **RECRUITING/RESEARCH AGREEMENTS**

Recruiting Efforts: National Meetings (student and faculty recruiting at GSA, AGU)

Recruiting and establishment of Joint Research and Exchange MOUs in China (2), Viet Nam, South Africa, Norway, Russia, Philippines, and collaborations with institutions in Japan, Turkey, Switzerland, Great Britain

Recruiting at Minority Institution Physics Departments for Geophysics MS students ( through Chevron Sponsored Minority Fellowships)

#### **MINORITY EDUCATION**

As Chairman, building STEM efforts through scholarship, formation of a Geoscience Tutoring Center, Retention and Recruiting Efforts (1999-2012). The Department now has one of the largest number of minority enrollments (29%) in the U.S. in geosciences.

## **FORMAL COURSES TAUGHT 1980 – 2019 (\*taught yearly)**

### **UNDERGRADUATE**

1. Field Methods (required course)\*#
2. Structural Geology (required course)\*^
3. Structural Geology Lab (required course)\*
4. Physical Geology (required course)
5. Summer Field Camp (required course)

# 10 day experiential learning field trip

^ 7 day experiential learning field trip

### **GRADUATE COURSES**

1. Plate Tectonics \*
2. Igneous Petrogenesis and Plate Tectonics\*
3. The Geology and Geophysics of Oceanic Crust and Ophiolites
4. Tectonics of Orogenic Belts
5. Microstructure
6. Advance Structural Geology (Stress and Strain)
7. Tectonics Seminar
8. Geochemical Seminar

\* Regularly Taught Courses (2 year cycle)

## **GRADUATE THESES AND DISSERTATIONS SUPERVISED: PRINCIPAL ADVISOR**

	<b>Year Grad.</b>	<b>M.S. Graduate</b>	<b>Degree</b>	<b>Thesis Title</b>
1	1984	Marshall W. Titus	M.S.	Title: The Petrologic Definition of the Oceanic Moho: Evidence from the Bay of Islands Ophiolite Complex, Newfoundland, Canada.
2	1986	Donald E. Ashabranner	M.S.	Title: A 2D Phase-Shift Migration Algorithm for Laterally Varying Velocity Fields and an Analysis of Ophiolite-Derived Models of Accretion.
3	1987	George Dillman	M.S.	Title: Structural Investigation and Tectonic History of the Central Paras Basin, Saltillo, Coahuila, Mexico
4	1987	Ronald Brink	M.S.	Title: Microstructural Study Ultramafic Rocks From The North Arm Mountain Massif, Bay of Islands Ophiolite Complex, Western Newfoundland.
5	1988	Richard Lane	M.S.	Title: Mineralogy and Stable Isotope Geochemistry of Serpentinized Ultramafic Rocks from the Bay of Islands Ophiolite Complex: Implications for the Oceanic Moho.
6	1988	Chunshou Xia	M.S.	Title: A Microstructural Study of Mantle Peridotites from the Mid-Atlantic Ridge near 23°N

7	1989	Nazneen Kharas	M.S.	Title: Geochemistry and Petrology of the Gabbroic Rocks from Blow Me Down Mountain, Bay of Islands Complex: Composition of the Parent Magmas and Melts in equilibrium with Gabbroic Cumulates
8	1989	Richard T. Beaubouef	M.S.	Title: Paleomagnetism of the Lower St. George Group, and HumberArm Sub-ophiolitic Volcanics of Western Newfoundland: Implications for the Iapetus Ocean
9	1989	David Meaux	M.S.	Title: Geology and Geochemistry of Sub-ophiolitic Volcanic Rocks in the Arm Allochthon, Western Newfoundland, Canada
10	1992	Mark Judeman	M.S.	Title: Tectonic Evolution of the Permian Basin, West Texas
11	1992	Ali Polat	M.S.	Title: Structural and geochemical evolution of the Aladag melange complex and greenschist division of the dynamothermal metamorphic sole beneath the Karsanti-Pozanti Ophiolite
12	1992	Jack Wang	M.S.	Title: Tectonic and geochemical evolution of the metamorphic sole beneath the Bay of Islands Ophiolite: Implications for tectonic models of obduction.
13	1994	Mike Milliken	M.S.	Title: Correlation and Depositional Environment By Major and Trace Element Analyses of Cores DB-01 and DB-02, Northwest Shelf of the Delaware Basin, Culberson County, Texas
14	1995	Doug Reid	M.S.	Title: Geochemical and Petrographic Analysis of Formations Within and Surrounding the Broken Bow Uplift, Southeastern Oklahoma
15	1996	Vadim Golod	M.S.	Title: Multibeam Bathymetry Surveys in the Equatorial Atlantic (1°N-9°N)
16	2001	Yaoyang Yan	M.S.	Title: Morphotectonic and Geochemical Characteristics of the Siqueiros Transform, East Pacific Rise.
17	2000	William Beck	M.S.	Title: Extensional Styles of the Mid-Atlantic Ridge.
18	2004	Pedram Zarian	M.S.	Title: Integration of Borehole Imaging and Microstructural Analysis of Plutonic Rocks from Hole 1105A, ODP Leg 179, SW Indian Ridge
19	2005	Andrea Quintanilla	M.S.	Title: Geochemical Analysis of Siliciclastics Across the Iberian Continental Margin

20	2005	Lili Yu	M.S.	Title: Spectral and Lithologic Mapping of the Bay of Islands Ophiolite Complex, Newfoundland, Canada using LandSat ETM+ and SIR-C Data
21	2005	Keegan Boyer	M.S.	Title: Geochemistry of basaltic and gabbroic rocks from the 15°20' Transform region along the Mid-Atlantic Ridge.
22	2007	Jian Hueng	M.S.	Title: Geochemical Analysis of Diabase, Basalts, and Metamorphic Sole Rocks from the Bay of Islands Ophiolite, Western Newfoundland.
23	2007	Kamran Zahid	M.S.	Title: Detachment and the Extent of Shortening Across the Paras Basin, Coahuila, Mexico
24	2010	Carmen Dragoi	M.S.	Title: A Comparison Of Laser Ablation La-ICP-MS Versus Solution Trace Element Analyses On MORB Glasses From 12-16N Along Mid-Atlantic Ridge
25	2011	Tzu-Chien Chang	M.S.	Title: Mid-Atlantic Ridge (12°-16°N) Bathymetric Analysis by Emperical Mode Decomposiiton.
26	2012	Adrian Gittens	M.S.	Title: Detrital Zircon Geochronology of Cambro-Ordovician Siliclastic Units of the Humber Arm Allochthon, Newfoundland.
27	2015	Mehmet Sahin	M.S.	Title: Laramide to Basin and Range Structural Transition, Indio Ranch, West Texas
28	2014	Melissa Davidson	M.S.	Title: U/Pb Geochronology of Post-Laramide, Pre-Basin and Range Silicic Volcanics, West Texas
29	2015	Raul Benavidez	M.S.	Title: Li Isotopes of Leg 209 Gabbroic and Ultramafic Rocks
30	2014	Kenan Yazan	M.S.	Title: Seismic Interpretation and Structural Evolution of the Nankai Trough Accretionary Prism
31	2015	Weihang Zhang	M.S.	Digestion and Analysis of Crude Oil Trace and Ultra-trace Element Fingerprinting
32	2018	Marina Kuznetcova	M.S.	Basin Modeling and Petroleum Prospective in the Central West Siberian Basin.
33	2018	Li Linhan	M.S.	Li Isotope Profiles through the Bay of Islands Ophiolite Psuedostratigraphy: Testing the Mechanisms of Deep Hydrothermal Circulation and Cooling in Oceanic Crust

34	2018	Mohammed Abu Alreesh	M.S.	Trace Element Geochemistry of Crude Oil and Organic Matter for use in Exploration and Production Management and Allocation Modeling
		Arden Larberg	M.S.	Title: Detrital Zircon and Trace Element Analyses of Siliciclastics from the Cambro-Ordovician Laurantian Continental Margin: Guides to Provenance, Paleo-redox Conditions, and Compositional Changes from Rifting to Arc Collision
	2019	Nicole James	M.S.	Non-Thesis M.S.
35	2019	Mariah Michie	M.S.	Vanadium Isotope Ratios of Extractable Organic Matter and Shale from the Eagle Ford Formation
36	2022	Hannah Anderson	M.S.	Vanadium Isotope and Trace Element Analysis of Source Rocks, EOM, Kerogen, and Produced Crude Oils in the Cretaceous Eagle Ford Shale
37	current	Christine Cornelius	M.S.	Commingle Oil Allocation From Offshore Ghana and the Powder River Basin, Wyoming: Two Field Tests of Trace Element Geochemical Allocation.
	<b>Year Grad.</b>	<b>M.S. Co-Advised w/ Van Siclen</b>		
38	1983	Randall Ponder	M.S.	Title: Balanced Cross-Sections of the U.S. Rocky Mountains

	<b>Year Grad.</b>	<b>Ph.D. Graduates</b>	<b>Degree</b>	<b>Dissertation Title</b>
1	1988	Gultekin Savci	Ph.D.	Title: Structural and Metamorphic Geology of the Subophiolitic Dynamothermal Metamorphic Sole and Peridotite Tectonites, Blow Me-Down Massif, Newfoundland, Canada: Tectonic Implications for Subduction and Obduction
2	1990	Rosanne Lindholm	Ph.D.	Title: Regional Correlation, Age, Provenance and Tectonic Significance of Sandstone-Shale Sequences in the Humber Arm Allochthon, Western Newfoundland.
3	1992	Everett Rutherford	Ph.D.	Title: Alteration of Oceanic Crust and Tectonic Evolution of the Hatay Ophiolite , Turkey



4	1992	Richard Beaubouef	Ph.D.	Title: Application of paleomagnetic techniques to remagnetization of oceanic pillow basalts and Paleozoic and Mesozoic sedimentary rocks.
5	1993	Jennifer Lytwyn	Ph.D.	Title: Geochemistry and Petrogenesis of Forearc Volcanics and Intrusives Associated with Ridge Subduction: Examples from the Pozanti-Karsanti and Hatay Ophiolites, Southern Turkey and the Chugach-Prince William Terrane, Southern Alaska
6	1994	Susan Smith	Ph.D.	Title: Geochemistry and Petrology of Basaltic and Plutonic Rocks From the Hayes Transform Region, Mid-Atlantic Ridge
7	1995	Chunshou Xia	Ph.D.	Title: Geochemical Variations, Source Characterization, Mantle Melting and Magmatic Processes at the 15°20N Fracture Zone, Mid-Atlantic Ridge
8	2001	Zhongping Guo	Ph.D.	Title: The Geochemical Structure of the Mid-Atlantic Ridge Axis from Iceland to Bouvet, A GIS Approach.
9	2002	Chris Harding	Ph.D.	Title: Multi-sensory investigation of geoscientific data: adding touch and sound to 3D visualization and modeling
10	2003	Douglas Reid	Ph.D.	Title: Major Trace and Rare Earth Whole Rock Geochemical Analyses of the Early to Middle Paleozoic Strata of the Ouachita Orogenic Belt
11	2003	Dimitri Pistoun	Ph.D.	Title: Understanding the emplacement and exposure of ultramafic complexes along the Mid-Atlantic Ridge between 20° and 24°N
12	2004	E. Egorev	Ph.D.	Title: Bathymetry Gravity and Magnetic Data Study Between 14 and 16°N Mid-Atlantic Ridge: Evidence For Large Scale Mechanical Extension
13	2005	Debleena Banerji	Ph.D.	Geochemistry of Leg 179 Gabbroic Rocks, Atlantis Bank, Southwest Indian Ridge
16	2019	Weihang Yang	Ph.D.	Trace Elements as Fingerprints for Crude Oils: Their Significance in Exploration and as Environmental Tracers.
17	Employment	Erik Slotsve	Ph.D.	Geochronology and Geochemistry of the Coastal Complex and the Lushs Bight Oceanic Tracts, Newfoundland
18	Spouse Move	Xiaojing Zhang	Ph.D.	Li isotopes profile through the Bay of Islands Ophiolite and Metamorphic Sole: Effects of Hydrothermal Alteration and Dehydration
19	Employment	Joshua Flores	Ph.D.	Initiation of Subduction at the Mariana-West Philippine Pacific Triple Junction.

20	2021	Yan Weiyao	Ph.D.	Geochronology and Geochemistry of Plagiogranites from the Bay of Islands Ophiolite and Its Metamorphic Sole.
21	2022	Li, Linhan	Ph.D.	Li Isotopes Profiles Through the Crustal Sections of the Bay of Islands Ophiolite, Newfoundland. Hydrothermal Penetration to the Lower Crust and Up Flows Zones in the Upper Crust

	Year Grad.	Senior Honors Thesis / Senior Projects Graduates		Thesis Title
1	2012	Melissa Davidson	B.S. Honors	U/Pb geochronology of volcanic rocks from the Indio Mountains Research Station, SW Texas: evidence of Laramide subduction-related volcanism. U/PB
2	2014	Alma Yesmagambetova	B.S. Honors	Geochemistry of volcanic rocks from the Trans Pecos Region, Tx.
3	2016	Sheila Liang Zhiyi Nguyen	Senior Project	Trace element geochemistry of the Skinner Cove and Woods Island volcanic rocks, Newfoundland.
4	2017	Katherine Chase	B.S. Honors	Trace Element Geochemistry of Crude Oil from the Central Sumatra Basin: Signatures of a Lucustrine Source Rock.
5	2016	Shourya Saxena	Senior Project	Trace Element Geochemistry of Crude Oil from the Gulf of Mexico and the Caribbean

#### Graduate Student Outcomes/Success 54 Student Outcomes Post-Graduation

Year	Graduate	Degree	Position Title
1984	Marshall W. Titus	M.S.	<u>Chief Geologist, International New Ventures, Marathon</u>
1986	Donald E. Ashabranner	M.S.	<u>Manager, Data Integration and Analytics, Conoco-Phillips</u>
1983	Randy Ponder	M.S.	<u>Senior Vice President of Exploration, Southwest Energy</u>
1987	George Dillman	M.S.	<u>Vice-President of Geology, Penn Virginia Corporation</u>
1987	Ronald Brink	M.S.	<u>Chief Hydrologist, Groundwater Management Specialist, Broome County Health Dept., New York</u>
1988	Richard Lane	M.S.	<u>President, Chairman and CEO, Vitruvian Exploration LLC.</u>
1988	Chunshou Xia	Ph.D	<u>Sr. Manager, Geophysics Functional Support, CNOOC USA</u>
1988	Gluten Savci	Ph.D.	<u>Sr. Principal / President at Savci Environmental Technologies, LLC</u>
1989	Nazneen Kharas-Khumbatta	M.S.	<u>Manager, K. W, Khumbatta, PC</u>
1989	Richard T. Beaubouef	M.S.	<u>Chief Geologist, Hess Corporation</u>
1989	David Meaux	M.S.	<u>US Team Lead - Complex Imaging, Specialist Technical Center at BP America</u>

1990	Rosanne Lindholm	Ph.D.	<u>Senior Exploration Geologist, ExxonMobil</u>
1992	Everett Rutherford	Ph.D.	<u>Exploration Manager, Calik Enerji</u>
1992	Richard Beaubouef	Ph.D.	<u>Chief Geologist, Hess Corporation</u>
1992	Mark Judeman	M.S.	<u>Exploration Geologist, Shell Oil, USA</u>
1992	Ali Polat	M.S.-Ph.D.	<u>Professor of Geology, University of Windsor, Editor, Can. Jour. of Earth Sciences, Hutchinson Medal Winner, Can. Geo Soc.)</u>
1992	Jack Wang	M.S.	<u>Geophysicist, Noble Energy</u>
1993	Jennifer Lytwyn	Ph.D.	<u>Instructional Assistant Professor, University of Houston</u>
1994	Mike Milliken	M.S.	<u>Senior Geologist, Panther Energy</u>
1994	Susan Smith	Ph.D.	<u>GIS Specialist, City of Lubbock, TX</u>
1995	Doug Reid	M.S.	<u>Vice-President of Exploration, Carrizo Oil &amp; Gas</u>
1995	Chunshou Xia	M.S.	<u>Appraisal Geophysicist, Nexen USA In</u>
1996	Vadim Golod	M.S.	<u>Information Technology Data Base Manager, SAIC/BP</u>
2000	William Beck	M.S.	<u>Exploration Geoscientist, PGS.</u>
2001	Zhongping Guo	Ph.D.	<u>Project Manager, ESRI GIS</u>
2002	Chris Harding	Ph.D.	<u>Associate Professor, Department of Geological and Atmospheric Sciences, Director, Virtual Reality Applications Center (VRAC), Iowa State University</u>
2003	Douglas Reid,	Ph.D.	<u>Vice-President of Exploration, Carrizo Oil &amp; Gas</u>
2003	Dimitri Pistoun	Ph.D.	<u>Sr. Geologist, Occidental Petroleum.</u>
2004	E. Egorev Sr.	Ph.D.	<u>Geophysicist, Frugro Gravity and Magnetic Services Inc</u>
2004	Pedram Zarian	M.S.	<u>Senior Structural Geologist, Shell</u>
2005	Andrea Quintanilla	M.S.	<u>Senior Petroleum Geologist and Commercial Advisor, at ExxonMobil Exploration Company</u>
2005	Lili Yu	M.S.	<u>Senior GIS Project Specialist, TRC Solutions</u>
2005	Debleena Banerji	Ph.D.	<u>Senior Geological Advisor-Petroleum Systems, Hess Corp.</u>
2006	Keegan Boyer	M.S.	<u>Sr. Project Manager, Chevron, Formerly AEOM Environmental</u>
2007	Jian Huang	M.S.	<u>Sr. Geoscientist (Geomechanics), Weatherford International</u>
2007	Kamran Zahid	M.S.	<u>Subsurface Coordinator, Columbia Venture at Shell Exploration and Production, Structural Geologist</u>
2011	Carmen Dragoi	M.S.	<u>Senior Geologist, Core Lab, Calgary</u>
2012	Tzuchien Chang	M.S.	<u>Geologic Engineer, CECI Engineering Consultants Inc., Taiwan</u>
2012	Adrian Gittens	M.S.	<u>Ph.D. candidate, University of Houston</u>
2014	Melissa Davidson (Braun)	M.S.	<u>Petroleum Systems Analyst, Chevron. Houston</u>
2014	Kenan Yazan	M.S.	<u>Exploration Geologist, Turkish Petroleum</u>
2015	Mehmet Zahin	M.S.	<u>Structural Geologist, Turkish Petroleum</u>
2015	Weihang Yang	M.S.	<u>Ph.D Candidate at the University of Houston</u>
2015	Raul Benavidez	M.S.	<u>Exploration Geologist, Australis Oil and Gas Corp.</u>
2018	Mohammed Abul Alreesh	M.S.	<u>Manager Fluids Chemistry: Exploration Geologist, Saudi Aramco</u>
2018	Marina Kuznetcova	M.S.	<u>Researcher, Basin Modeler, West Siberian Institute, Tyumen</u>
2018	Linhan Li	M.S.	<u>Currently Ph.D. Candidate at the University of Houston</u>
2019	Mariah Mitchie	M.S.	<u>Exploration Geologist, Diamondback Energy, Inc.</u>
2019	Weihang Yang	Ph.D.	<u>Geochemist, Amspec Group</u>
2022	Weiyao Yan	Ph.D.	<u>Research Scientist, Carlsbad Environmental Monitoring and Res Center, New Mexico State University, Carlsbad, NM</u>
2023	Linhan Li	Ph.D.	<u>Research Scientist, MATFAB ICP-MS labs, University of Iowa, Iowa City, Iowa</u>