Curriculum Vitae

Rinat I. Gabitov
Associate Professor
Department of Geosciences
Mississippi State University 1 (662) 325-0428
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Mississippi State, MS 39762-5448 http://www.geosciences.msstate.edu/people/professors/rinat-gabitov/

RESEARCH INTERESTS

Experimental mineralogy. Mineral growth and dissolution. Trace element (including actinides and lathanides) and isotope geochemistry. Analytical geochemistry: SIMS, nano-SIMS, LA- ICP-MS, EMPA, atom probe tomography. Carbon sequestration. Biomineralizaton. Paleoclimatology and chemical oceanography.

EDUCATION

Rensselaer Polytechnic Institute (RPI), Troy, NY *2002-2005*
Ph.D. degree in Geology, Department of Earth and Environmental Sciences
Advisor: Bruce Watson
MS degree in Geology, Department of Earth and Environmental Sciences *2000-2002*

Lomonosov Moscow State University, Moscow, Russia *1994-1999*
BS degree in Geochemistry, Department of Geochemistry
Advisor: Dr. Yury Alekhin

PROFESSIONAL EXPERIENCE

Mississippi State University, Department of Geosciences
Associate Professor of Geology *2019-present*
Trace elements uptake by carbonate and phosphate minerals at standard and hydrothermal conditions with application to longterm disposal of radioctive waste. Nitrate incorporation into calcite with application to antropogenic records in cave deposits. Stable isotope records in sulfide minerals from oil reservoirs.
Assistant Professor of Geology *2013-2019*
Studying entrapment of actinides and lanthanides by environmentally important minerals at ambient and hydrothermal conditions through crystal growth experiments and analytical methods via ICP-MS, and LA-ICP-MS. Evaluationg transport of Pt and Au in dry magmatic carbonic fluids. Evaluating mineral growth kinetics. Developing geochemical proxies by stable isotopes analyses of corals and foraminifera with SIMS and nano-SIMS.

University of California (UCLA), Department of Earth, Planetary, and Space Sciences
Staff Research Associate II *2012*
Postdoctoral Scholar *2009-2012*
Maintaining secondary ion mass spectrometer (SIMS, ims-1270), development of analytical methods, and leading projects on environmental applications.

California Institute of Technology (Caltech), Division of Geological and Planetary Sciences
Postdoctoral Scholar, *2006-2009*
Assist in maintaining nanoSIMS (50L) and SIMS (ims-7f geo) and leading projects on biomineralization. Developing of standards for SIMS laboratory.

Woods Hole Oceanographic Institution, Department of Geology and Geophysics
Rensselaer Polytechnic Institute (*dual appointment*) *2005 -2006*
Postdoctoral Fellow
Studying geochemistry of corals and inorganic carbonates with SIMS (ims-3f).

Rensselaer Polytechnic Institute, Department of Earth and Environmental Sciences *2000-2005*
Research Assistant
Performing mineral solubility, crystals growth, and diffusion experiments for fluorides, carbonates, and silicates. Using scanning electron microscopy (SEM) and electron microprobe analyzer (EMPA).

Los Alamos National Laboratory, Los Alamos, NM
Summer Intern, MTS-8 *2003*
Preparing publication of Pu (IV, V, VI) speciations in brines.
Summer Intern, T-13 *2001, 2002*
Performing numerical simulation on Ca and F diffusion in silicate melts.

FELLOWSHIPS

Fulbright-Lancaster University (STEM-Science and Technology) Scholar Award *2022*
NSF – CRDF Global Visiting Scholar Fellowship at King Abdullah University of Science and Technology *2016*

AWARDS

College of Arts & Sciences, Mississippi State University, Dean's Eminent Scholar in Mathematics/Natural/Physical Sciences *2020*

GRANTS

Awarded:

Nuclear Energy University Program (NEUP), US Department of Energy (DOE)
DE-FOA-0002361, CFA-21-23989, PI ($800,000) *2021-2024*
Major Research Instrumentation Program (MRI), National Science Foundation (NSF)
NSF 18-513, MRI, FAIN 2018004, Co-PI ($185,486) *2020-2023*
International Institute, MSU, Global Discovery Seed Grant Program, PI ($3,620) *2021-2022*
Schilling Special Teaching Projects Program, MSU, co-PI, PI ($2,850; $2,803) *2015, 2020*
NSF, C-DEBI (NSF Science and Technology Center for Dark Energy Biosphere), PI ($2,500) *2014*
NASA/MSSGC (Mississippi Space Grant Consortium, exploratory grant), PI ($1,100) *2013*
College of Arts & Sciences, MSU, Strategic Research Initiative, PI ($6,910) *2020*
College of Arts & Sciences, MSU, Strategic Research Initiative, PI ($7,250) *2018*
Henry Family Research Fund, PI ($4,900) *2017*
Southeastern Conference Visiting Faculty Travel Grant Program, PI ($1,250) *2016*
Office of Research and Economic Development, MSU, PI ($2,000/yr) *2014, 2016*
UCMEXUS (University of California Institute for Mexico and US), 4443875RG69805, PI ($1,500) *2012*
UCMEXUS, postdoctoral grant ($3,000) *2011*

Awarded to the use of analytical facilities:

UK Natural Environment Research Council Ion Micro-Probe Facility at the University of Edinburgh, Co-investigator *2022*
Beam‐time proposal at Diamond Light Source (UK), Case 140321, co-PI *2014*
Instrumental time (NanoSIMS) at Johnson Space Center NASA *2014*

Participation:

Norwegian Margin Fluid Systems and Methane-Derived Carbonate Crusts (NORCRUST) - Recent Scientific Advances in Service of Petroleum Exploration, Senior personnel *2016-2020*
During graduate school and postdoctoral work:

NSF EAR nos.: 0073752, 0337481, 9804794, 0318137.
NSF OCE nos.: 0347328, 0402728, 0527350 , 0823527, 0648157, 0929272.
WHOI Interdisciplinary Award no. 39040300.
DOE NNSA/DP and OBES Division of Chemical Sciences under Contract W-7405.
NOAA - MIT Sea grant Program: NA100AR4170086.

POSTDOCS

Angel Jimenez (now at Tarleton State University, Texas A&M) *2023*

GRADUATE STUDENTS

William Laird (MS) *2023-present*
Anh Ngyen (MS, PhD) (now in SePRO Corporation) *2016-2022*
Angel Jimenez (PhD) (now at Tarleton State University, Texas A&M) *2018-2022*
Noah Van Hartesveldt (MS in collaboration with LANL) (now in Arcanum Alloys) *2018-2019*
Timothy Palmer (MS, PhD) (also in The Mississippi Department of Environmental Quality) *2016-present*
Brittany Garner (PhD) (now in Southern Nuclear) *2016-2017*
Jeremy Weremeichik (PhD) *2015-2017*
Jonney Mitchell (MS) *2013-2016*
Aleksandra Novak (MS) (now in ExxonMobile) *2014-2016*
John Paul Jones (PhD) *2013-2014*
Trung Nguyen (UCLA, co-advising) *2010-2012*

TEACHING EXPERIENCE

Instructor: Survey Earth Sci I (GG 1113), MSU *2013-present*
Instructor: Mineralogy (GG 4114/6114), MSU *2013-present*
Instructor: Petrology (GG 4123/6123), MSU *2013-present*
Instructor: Intoduction to Geochemistry (GG 4633/6633), MSU *2017-present*
Instructor: Hydrology (GG 8613, Distance Learning), MSU *2016*
Instructor: Rocks and Minerals (GG 8133, Distance Learning), MSU *2014,2016*
Instructor: Research methods (GR 8553, Distance Learning), MSU *2022*
Instructor: Stable Isotope Geochemistry (GG 4990/6990/8990), MSU *2020, 2021*
Instructor: Topics in Geochemistry (GG 8990), MSU *2013-present*
Instructor: Earthquakes (ESS 008), UCLA *2012*
Guest lecturer for graduate level course: Principles and applications of proxies in paleoclimate and geobiology, UCLA *2012*
Lecturer at SIMS Student Workshop (graduate level), UCLA *2010-2012*
Training students and visitors, Caltech and UCLA *2006-2012*
Teaching Assistant, Rensselaer Polytechnic Institute, Troy, NY *2002-2004*

VISITING POSITIONS

Visiting Scientist, Los Alamos National Laboratory, EES-14,16, Los Alamos, NM *2017-present*
Division of Earth and Environmental, Sciences,
Visiting Scientist, Rensselaer Polytechnic Institute, Troy, NY, USA *2014, 2015*

REVIEWER

Grants

Nuclear Energy University Program (NEUP-DOE), NSF-EAR (Geobiology and Low-Temperature Geochemistry), NSF-OCE (Chemical Oceanography, Marine Geology and Geophysics), United States-Israel Binational Science Foundation (BSF), European Research Council (ERC) Earth System Science Panel.

Journals

Nature Communication, PNAS, Earth-Science Reviews, ACS Earth and Space Chemistry, Geochimica et Cosmochimica Acta, Earth and Planetary Sciences, Biogeosciences, American

Mineralogist, Chemical Geology, Journal of Analytical Atomic Spectrometry, Minerals, Materials, Geochemistry Geophysics Geosystems.

PROFESSIONAL ACTIVITIES / SERVICE TO COMMUNITY

Environmental Expert of Organization for Security and Co-operation in Europe *07/2019*
Participant in round table discussion at the First Atom Probe Tomography Workshop for Earth Sciences (INVITED, University of Alabama) *01/2016*
Represent MSU at Gem, Mineral, Fossil & Jewelry Show, Jackson, MS *2015-2018*
Chair of the sessions at Goldschmidt Conferences (INVITED) *06/2014, 08/2018*
Chair of the session at AGU *12/2011*
Served as a judge for student presentations at AGU and EGU Meetings *12/2011, 4/2017*

MEMBERSHIPS

American Geophysical Union, Geochemical Society, Geological Society of America, Paleontological Society (2014), Oceanography Society.

PUBLICATIONS

*In preparation (**6**):*

Laird et al. Iodate uptake by OH-Cl Apatite and Monetite. Tempting submission in July 2024.
Jiménez-Arroyo et al. Iodine Incorporation to Calcium Phosphate Minerals at Various Conditions. Tempting submission in August 2024.
Laird et al. Iodate and iodide uptake by apatite. Tempting submission in December 2024.
Gabitov et. al. Uranium icorporation in apatite at reduced and oxidized hydrothermal conditions. Tempting submission in December 2024.
Rezaei et al. Evaluationg of elemental incorporation into slow growing calcite at different fluid element to calcium ratios. Tempting submission in February 2025.
Perez-Huerta et al. Evaluation of iodine distributionm in apatite at nano scales with atom probe tomography. Tempting submission in February 2025.

*Accepted for publication (**0**):*

*Published (**36**):*

Gabitov R.I., Migdisov A., Jiménez-Arroyo Á., Xu H., Guo X., Perez-Huerta A., Strzelecki A., Laird W., Caporuscio F., Roback R., 2024. Uranium partitioning between apatite and hydrothermal fluids at 150-250°C. *Chemical Geology*, 663, 122277.
Rezaei M., **Gabitov R.,** Sadekov A., Perez-Huerta A., Borrelli C., Stiles A.(2024) Elemental Uptake by Different Calcite Crystal Faces: An In Situ Study. *Crystals*, 14(5):442.
Neary J.J., Pracheil B.M., **Gabitov R.I.**, Li M.H., Allen P.J. (2024) The influence of water, diet, and temperature on 87Sr/86Sr in fin spines of juvenile Atlantic Sturgeon Acipenser oxyrinchus oxyrinchus. Journal of Experimental Marine Biology and Ecology, 570:151973.
Jiménez-Arroyo Á., **Gabitov R.,** Migdisov A., Lui J., Strzelecki A., Zhao X., Guo X., Paul V., Mlsna T., Perez-Huerta A., Caporuscio F., Roback, R. (2023) Uranium uptake by phosphate minerals at hydrothermal conditions. *Chemical Geology* 634, 121581.
Gabitov R.I., Sadekov A., Dyer J., Perez-Huerta A., Xu H., Migdisov A. (2021) Sectoral and growth rate control on elemental uptake by individual calcite crystals. *Chemical Geology* 585, 120589, https://doi.org/10.1016/j.chemgeo.2021.120589.
Gabitov R.I., Migdissov A., Nguyen A., Van Hartesveldt N., Perez-Huerta A., Sadekov A., Sauer K.B., Baker J., Paul V., Caporuscio F., Xu H., and Roback R.C. (2021) Uptake of uranium by carbonate crystallization from reduced and oxidized hydrothermal fluids. *Chemical Geology* 564, 120054, https://doi.org/10.1016/j.chemgeo.2020.120054.
Wynn P.M., Ambler S., Grefe I., Soto D.X., Surridge B.W.J., **Gabitov R.I.**, Barker P.A., Anwar J., Quin A., Pereira M.G., and Grant H.K. (2021) Contemporary systematics of vadose zone nitrate capture by speleothem carbonate *Chemical Geology*, 571, 120170, https://doi.org/10.1016/j.chemgeo.2021.120172.

Weremeichik J.M., **Gabitov R.I.**, Sadekov A., Novak A.; Jimenez A., Thirumalai R.V.K.G., Varco J.J., Dygert A. (2021) Mg/Ca ratios in synthetic low-magnesium calcite: An experimental investigation. *Minerals* 11, 1158. https://doi.org/10.3390/min11111158

Nguyen A., **Gabitov R.**, Jimenez A., Dygert A., Varco J., Pérez-Huerta A., Migdisov A., Paul V., Kirkland B., Dash P (2021) Retaining Geochemical Signatures During Aragonite-Calcite Transformation at Hydrothermal Conditions. *Minerals* 11(10):1052, https://doi.org/10.3390/min11101052

Idrisova E., **Gabitov R.**, Karamov T., Voropaev A., Liu M.-C., Bogdanovich N., and Spasennykh M. (2021) Pyrite Morphology and $\delta^{34}S$ as Indicators of Deposition Environment in Organic-Rich Shales. *Geosciences* 11, 355, https://doi.org/10.3390/geosciences11090355

Borrelli C., **Gabitov R.I**., Liu, M., Hertwig A.T., Panieri G. (2020) The benthic foraminiferal $\delta^{34}S$ records flux and timing of paleo methane emissions. *Scientific Reports* 10, 1304, https://doi.org/10.1038/s41598-020-58353-4

Gabitov R.I., Sadekov A., Yapaskurt V., Borrelli C., Bychkov A., Sabourin K., and Perez-Huerta A. (2019) Elemental Uptake by Calcite Slowly Grown From Seawater Solution: An in-situ Study via Depth Profiling. *Front. Earth Sci.* 7:51. doi: 10.3389/feart.2019.00051

Gabitov R., Borrelli C., Buettner J., Kirkland B., Skarke A., Trail D., Garner B., Testa M., Wahidi M., Hoff C., Khasanov S., Panieri G., Thirumalai R., Thomas J., Weremeichik J., Zverkova I. (2019) Characterization of Carbonate Crust from a Recently Discovered Methane Seep on the North Atlantic Continental Margin of the USA. *Minerals* 9, 138, https://doi.org/10.3390/min9030138

Simakin A.G., Salova T.P., **Gabitov R.I**., Kogarko L.N., and Tyutyunnik O.A. (2019) Gold solubility in reduced carbon-bearing fluid. *Geochemistry International* 57, 400–406

Allen P.J., DeVries R.J., Fox D.A., **Gabitov R.I**., Anderson W.G. (2018) Trace element and strontium isotopic analysis of Gulf Sturgeon fin rays to assess habitat use. *Environmental Biology of Fishes* 101, 469. https://doi.org/10.1007/s10641-018-0713-7

Gabitov R.I., Sadekov A., and Migdisov A. (2017) REE incorporation into calcite individual crystals as one time spike addition. *Minerals* (INVITED) 7(11), 204; doi:10.3390/min7110204

Sturrock C.P., Catlos E.J., Miller N.R., Fall A., Larson T., **Gabitov R.I.**, Akgun A., and Yilmaz I.O. (2017) Fluids along the North Anatolian Fault, Niksar Basin, north central Turkey: Insight from stable isotopic and geochemical analysis of calcite veins. *Journal of Structural Geology*, 101, 58-79, http://dx.doi.org/10.1016/j.jsg.2017.06.004.

Saenger C., **Gabitov R.I**., Farmer J., Watkins J., Stone R. (2017) Linear correlations in bamboo coral $\delta^{13}C$ and $\delta^{18}O$ sampled by SIMS and micromill: evaluating paleoceanographic potential and biomineralization mechanisms using $\delta^{11}B$ and Δ^{47} variability. *Chemical Geology* (INVITED), 454, 1-14, http://dx.doi.org/10.1016/j.chemgeo.2017.02.014.

Weremeichik J.M., **Gabitov R.I.**, Thien B., and Sadekov A. (2017) The effect of growth rate on uranium partitioning between individual calcite crystals and fluid. *Chemical Geology*, 450, 145–153, http://dx.doi.org/10.1016/j.chemgeo.2016.12.026.

Simakin A.G., Salova T.P., **Gabitov R.I**., and Isaenko S.I. (2016) Dry CO_2-CO fluid as an important potential Deep Earth solvent. *Geofluids*, 16, 1043–1057, doi:10.1111/gfl.12204.

Peacock E., **Gabitov R.I.**, Frisch J., Carlock B., Henderson K., and Hadden C. (2016) Archaeological Otolith Chemistry as a Tool for Seasonality and Site Catchment Studies: Some Preliminary Considerations. *Journal of Archaeological Sciences*, 65, 11–19.

Jones J.P., Carricart-Ganivet J.P., Iglesias-Prieto R., Enríquez S., Ackerson M., and **Gabitov R.I.** (2015) Microstructural variation in oxygen isotopes and elemental calcium ratios in the coral skeleton of Orbicella annularis. *Chemical Geology* 419, 192-199.

Gabitov R.I., Leinweber A., and Sadekov A. (2014) Crystal growth rate effect on Mg/Ca and Sr/Ca partitioning between calcite and fluid: An in situ approach. *Chemical Geology* 367, 70–82.

Gabitov R.I., Rollion-Bard C., Tripati A., and Sadekov A. (2014). *In situ* study of boron partitioning between calcite and fluid at different crystal growth rates. *Geochimica et Cosmochimica Acta* 137, 81–92.

Gabitov R.I., Gagnon A.C., Guan Y., Eiler J.M, and Adkins J.F. (2013) Accurate Me/Ca ratio measurements in carbonates by SIMS and nanoSIMS and an assessment of heterogeneity in common carbonate standards. *Chemical Geology* 356, 94–108.

Gabitov R.I. (2013) Growth-rate induced disequilibrium of oxygen isotopes in aragonite: An in situ study. *Chemical Geology* 351, 268–275.

Gabitov R.I., Watson E.B., and Sadekov A. (2012) Oxygen isotope fractionation between calcite and fluid as a function of growth rate and temperature: An in situ study. *Chemical Geology* 306-307, 92-102.

Gabitov R.I., Schmitt A.K., Rosner M., McKeegan K.D., Gaetani G.A., Cohen A.L., Watson E.B., and Harrison T.M. (2011) In situ δ^7Li, Li/Ca, and Mg/Ca analyses of synthetic aragonites. *Geochemistry Geophysics Geosystems* 12, Q03001, doi:10.1029/2010GC003322.

Gabitov R.I. (2010) Partitioning of Sr, Mg, U, $^{18}O/^{16}O$, and $^{13}C/^{12}C$ Between Calcium Carbonate Minerals and Fluid at Different Temperatures and Crystal Growth Rates. VDM Verlag Dr. Müller e.K., p.124.

Holcomb M., Cohen A.L., **Gabitov R.I.**, and Hutter J.L. (2009) Compositional and morphological features of aragonite precipitated experimentally from seawater and biogenically by corals. *Geochimica et Cosmochimica Acta* 73, 4166–4179.

Gabitov R.I., Gaetani G.A., Watson E.B., Cohen A.L., and Ehrlich H.L. (2008) Experimental determination of growth rate effect on U^{6+} and Mg^{2+} partitioning between aragonite and fluid at elevated U^{6+} concentration. *Geochimica et Cosmochimica Acta* 72, 4058–4068.

Gabitov R.I. and Watson E.B. (2006) Partitioning of strontium between calcite and fluid. *Geochemistry Geophysics Geosystems* 7, Q11004, doi:10.1029/2005GC001216.

Ding M., Conca J.L., den Auwer C., **Gabitov R.I.,** Hess N.J., Paviet-Hartmann P., Palmer P.D., LoPresti V., and Conradson S.D. (2006) Chemical speciation of heterogeneously reduced Pu in synthetic brines. *Radiochimica Acta* 94, 249-259, DOI 10.1524/ract.2006.94.5.249.

Gabitov R.I., Price J.D., and Watson E.B. (2005) Diffusion of Ca and F in haplogranitic melt from dissolving fluorite crystals at 900, 1000°C and 100 MPa. *Geochemistry Geophysics Geosystems* 6, doi: 10.1029/2004GC000832.

Gabitov R.I., Price J.D., and Watson E.B. (2005) Solubility of fluorite in haplogranitic melt of variable alkalies and alumina content at 800-1000°C and 100 MPa. *Geochemistry Geophysics Geosystems* 6, doi: 10.1029/2004GC000870.

Gabitov R.I., Price J.D., Gabitov I.R., and Watson E.B. (2001) The solubility of fluorite and diffusion of its components in haplogranitic melt at T=800, 900, 1000°C and P=100 MPa. *Los Alamos Preprint*, LAUR-01-6926, Los Alamos, New Mexico.

MEETINGS/ABSTRACTS

Spent Fuel and Waste Disposition DOE Annual Program Meeting (INVITED), Las Vegas, NV, 2023, 2024.
GSA Annual Meeting (3 abstracts, co-author on 3), Pittsburgh, PA, 2023
Goldschmidt Conference (2 abstracts, co-author on 1), Lyon, France 2023
Goldschmidt Conference (2 abstracts, one is KEYNOTE), Honolulu, HI, 2022
Goldschmidt Conference (2 abstracts, co-author on 2), Lyon, France (online) 2021
European Geological Union (EGU) Meeting, Vienna, Austria 2019
Goldschmidt Conference (2 abstracts, co-author on 1), Barselona, Spain 2019
Goldschmidt Conference (5 abstracts, co-author on 4), Boston, MA, USA 2018
AGU Fall Meeting (2 abstracts, co-author on 1), New Orleans, LA, USA, 2017
European Geological Union (EGU) Meeting (2 abstracts), Vienna, Austria 2017
AGU Ocean Science Meeting (4 abstracts, co-author on 3), New Orleans, LA, USA, 2016
AGU Fall Meeting(co-author), San Francisco, CA, USA, 2015
GSA Annual Meeting (INVITED, co-author), Baltimore, MD, USA, 2015
AGU Spring Meeting (co-author), Montreal, Canada, 2015
71st annual Southeastern Archaeological Conference (co-author, INVITED), Greenville, SC, USA, 2014
Goldschmidt Conference (two abstracts, one is INVITED), Sacramento, CA, USA 2014
EnvironMetal Isotopes Conference, Ascona, Switzerland, 2013
Goldschmidt Conference, Florence, Italy, 2013, *Mineralogical Magazine*, 77(5) 1126
AGU Fall Meeting, San Francisco, CA, USA, 2012, Abstract PP33A-2110

Goldschmidt Conference, Montreal, Canada, 2012, Abstract 2793
AGU Fall Meeting, San Francisco, CA, USA, 2011, Abstract PP41A-1743
Goldschmidt Conference, Prague, Czech Republic, 2011, Abstracts 2729 and 3053
Goldschmidt Conference, Knoxville, TN, USA 2010 (INVITED), *Geochim. Cosmochim. Acta*, 74, A313
AGU Fall Meeting, San Francisco, CA, USA, 2009, Abstract V43J-09
11th Coral Reef symposium, 3 and 4, Fort Lauderdale, Fl, USA, 2008
Goldschmidt Conference, Vancouver, Canada, 2008, *Geochim. Cosmochim. Acta*, 72, 12, A287
AGU Fall Meeting, San Francisco, CA, USA, 2007, Abstract B44C-02
AGU Fall Meeting, San Francisco, CA, USA, 2006, *Eos Trans. AGU, 87*(52), Abstracts: V32B-01 (INVITED), B13B-1076, B13B-1077, PP13C-07
Goldschmidt Conference, Melbourne, Australia, 2006, *Geochim. Cosmochim. Acta*, 70, 18, 187
Goldschmidt Conference, Moscow, ID, USA, 2005, *Geochim. Cosmochim. Acta*, 69, 10, A777
AGU Fall Meeting, San Francisco, CA, USA, 2004, *Eos Trans. AGU*, 85(47), Abstract B13E-05
AGU Spring Meeting, Montreal, Canada, 2004, Eos Trans. AGU, 85(17), Abstract V43A-05
Radiochemistry Conference 2003, Carlsbad, NM, USA
GSA Meeting, Boston, MA, USA, 2001, *Abstracts with Programs, GSA* 33, 6, A87
AGU Fall Meeting, San Francisco, CA, USA, 1999, *Eos, Trans., AGU* 80, 46, 1165.

COLLOQUIA

University of Lancaster, UK	*10/2022*
Texas A&M University, USA	*01/2014*
Mississippi State University, USA	*07/2012*
Ruhr University Bochum, Germany	*05/2012*
University of Southern Mississippi, USA	*03/2012*
Institute of Marine Science, Rimouski, Canada	*06/2011*
University of Edinburgh, Edinburgh, UK	*05/2009*
University of California, Los Angeles, USA	*04/2009*
University of Joseph Fourier, Grenoble, France	*03/2009*
University of Houston, Houston, USA	*04/2008*

SEMINARS

GEOMAR Helmholtz Centre for Ocean Research Kiel (Germany)	*05/2024*
Los Alamos National Laboratory, Los Alamos, USA	*07/2023*
Omya, Chemical Industry Company, Switzerland	*10/2022*
University of Mississippi, USA	*02/2017*
University of Alabama, USA	*03/2016*
University of Cambridge, UK	*12/2014*
Mississippi State University, USA	*03,08,09/2013*
University of California, Los Angeles, USA	*11/2012, 05/2011*
National Museum of Natural History, Paris, France	*03/2009*
University of Southern California, Los Angeles, USA	*01/2009*
California Institute of Technology, Pasadena, USA	*03/2007*
Woods Hole Oceanographic Institution, Woods Hole, USA	*02/2006, 10/2004*
Los Alamos National Laboratory, Los Alamos, USA	*07/2002*
Rensselaer Polytechnic Institute, Troy, USA	*11/2001*

COLLABORATORS

Ackerson, Michael (Rensselaer Polytechnic Institute); den Auwer, Christophe (CEA Marcoule, France); Borrelli, Chiara (University of Rochester); Carricart-Ganivet Juan P. (National Autonomous University of Mexico); Catlos, Elizabeth (The University of Texas at Austin); Conca, James (Institute for Energy and the Environment at New Mexico); Conradson, Steven (Los Alamos National Laboratory); Craven, John (University of Edinburgh) Ding, May (Los Alamos National Laboratory); Eagle, Robert (University of

California Los Angeles); Ehrlich, Henry (Rensselaer Polytechnic Institute); Enríquez, Susana (National Autonomous University of Mexico); Gagnon, Alexander (University of Washington); Hess, Nancy (Pacific Northwest National Laboratory); Holcomb, Michael (University of Western Australia); Leinweber, Anita (UCLA); LoPresti, Vin (Los Alamos National Laboratory); Messenger, Scott (JSC); Nguyen, Ann (NASA); Palmer, Phillip (Los Alamos National Laboratory); Panieri, Giuliana (The Arctic University of Norway); Paviet-Hartmann, Patricia (Pacific Northwest National Laboratory); Price, Jonathan (Midwestern State University); Prieto, Roberto Iglesias (National Autonomous University of Mexico); Rogers, Karyn (Rensselaer Polytechnic Institute); Rollion-Bard, Claire (Centre de Recherches Pétrographiques et Géochimiques, France); Rosner, Martin (Federal Institute of Materials and Testing, Germany); Sadekov, Aleksey (The University of Cambridge, UK); Schmitt, Axel (University of California Los Angeles); Tripati, Aradhna (University of California Los Angeles); Wynn, Peter (lancaster University).

MEDIA COVERAGE

'Virtual' dissection may crack secrets of dino eggs. Mississippi State University News, July 22, 2014 (http://www.wcbi.com/local-news/virtual-dissection-may-crack-secrets-of-dino-eggs/)