

## Curriculum Vitae

### Rinat I. Gabitov

Associate Professor

Department of Geosciences

Mississippi State University

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### **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. Biomineralization. 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 radioactive 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. Evaluating 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**  
Visiting Scientist, EES-14 summers-2017,2018, fall 2019  
Studying U uptake by calcite and apatite in hydrothermal systems at reduced and oxidized conditions.  
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 2020  
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**

#### **Pending:**

Nuclear Energy University Program (NEUP), US Department of Energy (DOE), PI (\$0.5M; *Invited submission*). 2024-2026  
DOE, Hanford Tank Waste Cleanup Research & Development, University Collaborator with Sandia National Laboratory (Ceiling \$3M/year) 2024-2027

#### **Awards:**

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  
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  
Schilling Special Teaching Projects Program, MSU, co-PI, PI (\$2,850; \$2,803) 2015, 2020  
UCMEXUS (University of California Institute for Mexico and US), 4443875RG69805, PI (\$1,500) 2012  
UCMEXUS, postdoctoral grant (\$3,000) 2011

#### **Awards for the use of analytical facilities:**

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) - 2016-2020  
Recent Scientific Advances in Service of Petroleum Exploration, Senior personnel  
*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 (PhD) 2023

**GRADUATE STUDENTS**

Anh Nguyen (MS and PhD) 2016-2022  
Angel Jimenez (PhD) 2018-2022  
Timothy Palmer (MS and PhD) 2016-present (also in Strong Rock Operating Company)  
Noah Van Hartesveldt (MS) 2017-2019 (now in Arcanum Alloys)  
Brittany Garner (PhD) 2016-2017 (now in Southern Nuclear)  
Jeremy Weremeichik (PhD) 2014-2016 (now in Indiana University Southeast)  
Jonney Mitchell (MS) 2015-2016 (now in West Virginia University)  
Aleksandra Novak (MS) 2015-2016 (now in ExxonMobile)  
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: Introduction 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: 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, Los Alamos, NM 2017, 2018, 2019  
Division of Earth and Environmental, Sciences,  
Visiting Scientist, Rensselaer Polytechnic Institute, Troy, NY, USA 2014, 2015

**REVIEWER**

Grants

United States-Israel Binational Science Foundation (BSF) (2017)  
European Research Council (ERC), Earth System Science Panel (2016)  
NSF-OCE (Chemical Oceanography 2011, Marine Geology and Geophysics 2014, 2015)  
NSF-EAR (Geobiology and Low-Temperature Geochemistry 2009, 2016)

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:*

Uptake of uranium and iodine by apatite.

Evaluating of elemental incorporation into calcite overgrowth at different fluid Mg/Ca and growth rates.

#### *Published:*

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.**, Migdisov 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  $\delta^{34}\text{S}$  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  $\delta^{34}\text{S}$  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, Nixsar 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  $\delta^{13}\text{C}$  and  $\delta^{18}\text{O}$  sampled by SIMS and micromill: evaluating paleoceanographic potential and biomineralization mechanisms using  $\delta^{11}\text{B}$  and  $\Delta^{47}$  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  $\text{CO}_2$ - $\text{CO}$  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., Tripathi 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  $\delta^7\text{Li}$ , 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,  $^{18}\text{O}/^{16}\text{O}$ , and  $^{13}\text{C}/^{12}\text{C}$  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

- Goldschmidt Conference (2 abstracts, co-author on 2), Lyon, France 2021
- European Geological Union (EGU) Meeting, Vienna, Austria 2019
- Goldschmidt Conference (2 abstracts, co-author on 1), Barcelona, 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, 12, A313
- AGU Fall Meeting, San Francisco, CA, USA, 2009, Abstract V43J-09
- 11<sup>th</sup> 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**

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); Tripathi, 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/>)