

Steven J. Jaret

Earth and Planetary Sciences
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Education

2017 Ph.D., **Stony Brook University**, Department of Geosciences
2011 M.A., **Harvard University**, Earth and Planetary Science
2009 B.S., **University of Tennessee**, Department of Earth and Planetary Science
2009 Precambrian Field Camp, University of Minnesota, Duluth

Academic Appointments and Fellowships

2022 – present Assistant Professor, Earth and Planetary Sciences, Kingsborough Community College of the City University of New York
2018-2022 Postdoctoral Research and Teaching Fellow, American Museum of Natural History, Department of Earth and Planetary Sciences
2018 - present Visiting Research Scholar, Stony Brook University, Department of Geosciences
2018 - present Faculty Affiliate, Alan Alda Center for Communicating Science
2018 Research Consultant, Mt. Holyoke University, Department of Astronomy
2017 - 2018 Postdoctoral Associate, Stony Brook University
2014 - present Staff Associate, Lamont-Doherty Earth Observatory, Columbia University
2012 - 2017 Graduate Teaching and Research Assistant, Stony Brook University
2013-2016 NASA, Earth and Space Science Fellowship, Stony Brook University
Spring 2012 Visiting Research Scholar and Lecturer Auburn University
2010 - 2012 Graduate Teaching Fellow Harvard University, Dept. of Earth and Planetary Sciences
2011 Curricular Fellow, Harvard University, Dept. of Earth and Planetary Sciences
2008 Intern, Smithsonian Institution Dept. of Paleobiology and Mineral Sciences

Publications

Manuscripts in Progress

2) **Jaret, S. J.**, Rasbury, E. T., Reiners, P., Thompson, L. M., Hemming, S. R., Thompson, M. S., and Spray, J. G. (2022). Extreme isotopic heterogeneity in impact melt rocks with implications for Mars. SCIENCE submitted.

Manuscripts Published

21) Shkolyar, S., **Jaret, S. J.**, Cohen, B. A., Johnson, J. R., Beyssac, O., Madariaga, J. M., Wiens, R. C., Ollila, A., Holm-Alwmark, S., & Liu, Y. (2022). Identifying Shocked Feldspar on Mars Using Perseverance Spectroscopic Instruments: Implications for Geochronology Studies on Returned Samples. *Earth, Moon, and Planets*, 126(2), 4. <https://doi.org/10.1007/s11038-022-09546-6>

- 20) **Jaret, S. J.**, & Scott Harris, R. (2022). No mineralogic or geochemical evidence of impact at Tall el-Hammam, a Middle Bronze Age city in the Jordan Valley near the Dead Sea. *Scientific Reports*, 12(1). <https://doi.org/10.1038/s41598-022-08216-x>
- 19) Heinicke, C., Adeli, S., Baqué, M., Correale, G., Fateri, M., **Jaret, S.**, Kopacz, N., Ormö, J., Poulet, L., and Verseux, C. (2021). Equipping an extraterrestrial laboratory: Overview of open research questions and recommended instrumentation for the Moon. *Advances in Space Research*, <https://doi.org/10.1016/j.asr.2021.04.047>
- 18) **Jaret, S.J.**, Tailby, N.D., Hammond, K.G., Rasbury, E.T., Wooton, K., Ebel, D.S., DiPadova, E., Smith, R., Yuan, V., Jaffe, N., Smith, L.M., and Spaeth, L., (2021). *Geology of Central Park, Manhattan, New York City, USA: New geochemical insights*, in Florsheim, J., Koeberl, C., McKay, M.P., and Riggs, N., eds., 2021 GSA Section Meeting Guides 2021 GSA Section Meeting Guides 2021 GSA Section Meeting Guides 2021 GSA Section Meeting Guides: Geological Society of America Field Guide 61, p. 1–14, [https://doi.org/10.1130/2020.0061\(02\)](https://doi.org/10.1130/2020.0061(02)).
- 17) Pickersgill, A., **Jaret, S. J.**, Pittarello, L., Fritz, J., and R. S. Harris (2021). Shock effects in feldspars: An overview, in Reimold, W.U., and Koeberl, C., eds., *Large Meteorite Impacts and Planetary Evolution VI: Geological Society of America Special Paper 550*, p. 507–535, [https://doi.org/10.1130/2021.2550\(23\)](https://doi.org/10.1130/2021.2550(23)).
- 16) Johnson, J. R., **Jaret, S. J.**, Glotch, T. D., and Sims, M., (2020). Raman and Infrared Microspectroscopy of Experimentally Shocked Basalts. *Journal of Geophysical Research: Planets* 125, e2019JE006240. DOI: <https://doi.org/10.1029/2019JE006240>
- 15) Sims, M., **S. J. Jaret**, J. R. Johnson, M. L. Whitaker, and T. D. Glotch (2020), Unconventional high pressure Raman spectroscopy study of kinetic and peak-pressure effects in plagioclase feldspars, *Physics and Chemistry of Minerals* 47:12 <https://doi.org/10.1007/s00269-020-01080-z>
- 14) **Jaret, S. J.**, Rasbury, E. T., and Harris, R. S. (2019). A New Technique for Measuring Ir concentrations via ICP-MS. *Chemical Geology* 528, 119270 <https://doi.org/10.1016/j.chemgeo.2019.08.003>
- 13) Piccione, G., Rasbury, E. T., Elliott, B., Kyle, J. R., **Jaret, S. J.**, Acerbo, A., Lanzirotti, A., Northrup, P., Wooton, K., and Parrish, R. (2019). Vein Fluorite U-Pb Dating Demonstrates Post-6.2 Ma Rare Earth Element Mobilization Associated with Rio Grande Rifting. *Geosphere* 15 (6): 1958–1972. <https://doi.org/10.1130/GES02139.1>
- 12) Yesiltas, M., Glotch, T.D, **Jaret, S.J.**, Verchovsky, A.B., and Greenwood, R.C. (2019). Carbonaceous matter in the Sariçiçek meteorite. *Meteoritics & Planetary Science* 54, 1495-1511.

- 11) Sims, M., **Jaret, S. J.**, Carl, E., Rhymer, B., Schrodt, N., Mohrholz, V., Smith, J., Konopkova, Z., Liermann, H-P., Glotch, T. D., and Ehm, L. (2019). Pressure-induced amorphization in plagioclase feldspars: A time-resolved powder diffraction study during rapid compression. *Earth and Planetary Science Letters* 507, 166-174.
- 10) Rucks, M. J., Whitaker, M. L., Glotch, T. D., Parise, J. B., **Jaret, S. J.**, Catalano, T., and Dyar, M. D. (2018). Making Tissintite: Mimicking Meteorites in the Multi - Anvil Cell. *American Mineralogist* 103 (9): 1516-1519. <https://doi.org/10.2138/am-2018-6539>
- 9) **Jaret, S. J.**, Johnson, J. R., Sims, M., and Glotch, T. D. (2018) Microspectroscopic and Petrographic Comparison of Experimentally Shocked Albite, Andesine, and Bytownite. *Journal of Geophysical Research: Planets* 123,1701-1722
- 8) **Jaret, S. J.**, Hemming, S. R., Rasbury, E. T., Thompson, L. M., Glotch, T. D, and Spray, J. G. (2018) Context Matters -- Ar-Ar results from in and around the Manicouagan Impact Structure, Canada and implications for martian meteorite chronology, *Earth and Planetary Science Letters* 501:78-89 DOI: 10.1016/j.epsl.2018.08.016
- 7) Yesiltas, M., **Jaret, S. J.**, Young, J., Wright, S. P., and Glotch, T. D. (2018). Three dimensional Raman tomographic microspectroscopy: A highly novel imaging technique. *Earth and Space Science* 5, 380-392.
- 6) **Jaret, S.J.**, and King, D.T., Jr., (2018). Revisiting the Flynn Creek impact structure, Jackson County, Tennessee, in Engel, A.S., and Hatcher, R.D., Jr., eds., *Geology at Every Scale: Field Excursions for the 2018 GSA Southeastern Section Meeting in Knoxville, Tennessee: Geological Society of America Field Guide* 50, p. 1–6, [https://doi.org/10.1130/2018.0050\(05\)](https://doi.org/10.1130/2018.0050(05)).
- 5) Sklute, E. C, Kashyap, S., Dyar, M. D., Holden, J. F., Tague, T., Wang, P., **Jaret, S. J.** (2017). Spectral and Morphological Characteristics of Synthetic Nanophase Iron (Oxyhydr)oxides. *Physics and Chemistry of Minerals* 45, 1-26.
- 4) Adrian, D. R., King, D. T., **Jaret, S. J.**, Ormö, J., Petruny, L. W., Hagerty, J. J. and Gaither, T. A. (2017), Sedimentological and petrographic analysis of drill core FC77-1 from the flank of the central, Flynn Creek impact structure, Tennessee. *Meteoritics and Planetary Science* 53, 857-873 doi:10.1111/maps.12862
- 3) **Jaret, S. J.** Phillips, B. L., King, D. T. Jr., Glotch, T. D., Rahman, Z., and Wright, S. P. (2016). An Unusual Occurrence of Coesite at the Lonar Crater, India. *Meteoritics and Planetary Science*, 52, 47–163.
- 2) **Jaret, S. J.**, Woerner, W. R., Phillips, B. L., Ehm, L, Nekvasil, H., Wright, S. P., and Glotch, T.D. (2015). Maskelynite Formation via Solid-State Transformation: Evidence of Infrared and X-Ray Anisotropy. *Journal of Geophysical Research*. 120, 570–587 DOI: 10.1002/2014JE004764.

- 1) Jaret, S. J., Kah, L.C., and Harris, R.S. (2014). Progressive deformation of feldspar recording low-barometry impact processes, Tenoumer impact structure, Mauritania. *Meteoritics and Planetary Science* 49, 1007-1022.

Grants and Awards

2 nd Place, Stony Brook University Postdoc Spotlight research contest	2018
Distinguished Travel Award, Stony Brook Graduate Student Organization,	2016
Distinguished Service Award, Stony Brook Graduate Student Organization	2016
Faculty Senate Service Award, Stony Brook University	2016
Student Paper Award, GeoRaman conference	2016
Meteoritical Society Foundation Award	2015
David King Field Award, SBU Geosciences	2013
NASA Earth and Space Science Fellowship,	2013-2016
Student Research Grant, Massachusetts Space Grant Consortium	2010
Research Grant, Precambrian Research Center	2010
Honorable Mention, NSF Graduate Student Research Fellowship	2009
Travel Grant, Planetary Division, Geological Society of America	2009
Travel Grant, NE section, Geological Society of America	2009
Tennessee Space Grant Consortium Award	2008-2009
Tennessee Space Grant Consortium Award	2008
University of Tennessee Haslam Honors Program, Research Grant	2008
Undergraduate Research Grant, SE Geological Society of America	2007
Mayo Foundation Scholarship, SE Federation of Mineralogical Societies,	2008

Invited Talks

- Graduate Center, City University of New York, “*The Manhattan Project: New insight into the Geology of NYC*”, May 2021
- American Museum of Natural History, “*Impact Melts as Unique Igneous Environments – insight from isotope geochemistry*”, October 2020
- John’s Hopkins University, Department of Earth and Planetary Sciences. “*Minerals under extreme conditions: examples from natural and experimental impact events*”. March 2020.
- Geological Society of America annual meeting “*Plagioclase at Extreme Conditions, more than just pressure effects*”, September 2019.
- Colby College, Waterville, ME, “*What Isotopes Can and Can’t Tell Us About Impact Rocks Across the Solar System*” February 2019
- Goddard Space Flight Center, Greenbelt, MD, “*What Shocked feldspars Can and Cannot Tell Us*”, summer 2018
- Lamont-Doherty Earth Institute, Palisades, NY, “*How to date the planets: Where Spectroscopy Meets Geochronology*”, Fall 2017
- Astronomical Society of Long Island, “*Meteorites and the craters they leave,*” Fall 2018
- University of Arkansas, Little Rock, Department of Earth Sciences, “*How to Date the Planets*”, Fall 2016
- Central Connecticut State University, Dept. of Geological Sciences, “*Dating of Extraterrestrial Materials,*” Spring 2015
- American Museum of Natural History, Department of Earth and Planetary Science, “*Shocked Metamorphism in Quartz and Feldspars*” Spring 2014
- NASA Marshall Space Flight Center, “*The Gardnos Impact Structure, Norway,*” Summer 2012
- Auburn University, Geosciences Department, “*Geochemistry and Shock Petrography of the Gardnos Impact Structure, Norway*” Spring 2012

Lab Expertise

Clean Lab protocols for whole rock dissolution (for trace element and isotope analyses)

TRUSpec column chemistry for REE separation

LNSpec column chemistry lanthanide separation

Agilent quadrupole inductively coupled plasma mass spectrometer (ICP-MS), solution and laser ablation

Optical microscopy – including universal stage measurements and optical refractive index measurements

Scanning Electron Microscopy – including backscattered imaging, secondary electron imaging, and cathodoluminescence

Micro-Raman spectroscopy – including confocal microRaman spectral analysis and 2D/3D Raman imaging

Micro-FTIR spectroscopy – including micro-FTIR spot analyses and hyperspectral imaging

Electron Microprobe Analysis

ArcGIS

Rock preparation and thin section preparation – including mineral separates (heavy liquids) for zircon geochronology, polishing and preparation both petrographic thin sections and epoxy thick mounts.

Teaching

Science Research Practicum and Field course, AMNH	2019 - present
Historical Geology Lecture, Stony Brook University	Summer 2015
Field Geology Lab, Stony Brook University	Fall 2015
Structural Geology Lab, Stony Brook University	Spring 2013
Physical Geology Lab, Stony Brook University	Fall 2012
Physical Geology Lecture, Auburn University	Spring 2012
Physical Geology Lab, Harvard University	Fall 2010
Earth Materials Lab, Harvard University	Fall 2011

Science Communication and Outreach

[Alan Alda Center for Communicating Science](#), Stony Brook University's school of Journalism. The Alan Alda Center for Communicating Science is world-recognized center at Stony Brook University that empowers scientists and health professionals to communicate complex ideas and concepts. They host training programs, workshops, coaching sessions, and courses for students and professionals across the US and world.

- Co-created “Jargon Police” a science communication tool for effective science communication (<https://www.aldacenter.org/outreach/flame-challenge/events/let-jargon-police-help-you-prepare-flame-challenge%E2%84%A2>)
- Excelled in 6 academic courses in science communication including Improvisation for Scientists, Distilling Your Message, Writing to Be Understood, Creating a Video Abstract, Presenting Science Unplugged, and Science Unplugged Live.
- Graduate student representative at Alda Center workshops
- Assisted in training and gave feedback for new Improvisation instructors at Train-The-Trainers Bootcamp 2015.

- Private coaching for undergraduate student in innovative program (2 hour-long coaching sessions with student, attended her presentation and discussed it afterwards with her)
- Work with Alda Center Improvisation Director to create new curriculum tools.
- Participated in workshops and specialized programs centered on learning, teaching, and practicing communicating science. These include:
 - "Science Unplugged" -- a program that brings student scientists into high schools to talk to students (I did 12 talks in 2015 and 2016).
 - Co-created, hosted and co-produced a web-hosted version of Science Unplugged where we held weekly interviews with young scientists. The show had 12 episodes and reached over 12,000 viewers (view archived episodes: <http://www.aldakavillearningcenter.org/practice/science-unplugged-archive>)
 - Participant in 2014 Three Minute Thesis competition at Stony Brook University
 - 2015 NASA-sponsored FAMELAB science communication contest (Regional Wild Card Winner) <https://www.youtube.com/watch?v=cNwIDJA73mI>
 - 2016 FAMELAB national semi-finalist, <https://www.youtube.com/watch?v=1YJJ36mnw0>

Within the Department of Geosciences, Stony Brook University

- Developed and taught a series of five 2-hour workshops for students and faculty focused on science communication
- Organized and ran a 3-minute thesis competition for our department
- Ran a half-day workshop for high school interns focused on helping them present their summer research

Graduates Education and Outreach -- a graduate student run program which writes and teaches 1-hour science lab activities at underprivileged elementary schools on Long Island.

- Executive Board member, 2014-2017
- Designed curriculum and programming for 3 labs in astronomy, geology, and chemistry.
- Taught more than 10 classes since 2014.
- Led the development of geology curriculum and activities Annual Long Island Makers Faire, with > 500 attendees
- Participated in the Maker Fair at Wantagh Elementary School
- Developed a short class for Girl Scouts, Boy Scouts to get merit badge in geology.
- Featured on the NASA SSERVI website: <https://sservi.nasa.gov/articles/graduate-students-bring-hands-on-science-education-to-area-elementary-schools/>

Science Olympiad

Developed lessons and taught at 3 high school science clubs to prepare studies for Science Olympiad

New York State Science and Engineering Fair

- Judge for the Nassau County regional science fair, serving >10 number of high schools with close to 100 student participants.

New York City Science Fair

- Judge for the New York City High School science fair – with participants from all NYC public schools.

Department, University and Community Service

Department Seminar Organizer, AMNH	2019-2021
Advisor for NSF Research Experience for Undergraduates, AMNH	2019-2021
Admissions Committee, Masters in Teaching Program, AMNH	2019-2021
Graduate Student Representative, Geosciences Department SBU	2014-2016
Graduate Student Senator, SBU	2014-2016
Graduate Senate Board of Appeals member, SBU	2015
Graduate Senate Election Rules Committee, chair	2015
Student Representative, Faculty Senate Library Committee	2014-2017
Reviewer, ICARUS	
Reviewer, Meteoritics and Planetary Science	
Reviewer, Nature: Scientific Reports	
Reviewer, GSA Bulletin	
Reviewer, GEOLOGY	
External Reviewer, NASA Review Panel	
Executive Secretary, NASA Review Panel	
Panelist, NASA Review Panels	

Selected Abstracts

- Jaret, S. J.,** Tailby, N. D, Hammond, K., et al., (2021). Chasing Cameron's Line: Detrital Zircon Results from the Manhattan and Hartland Schists in New York City. Geological Society of America Abstracts with Programs. Vol. 53, No. 1, 2021 doi: 10.1130/abs/2021NE-361703
- Jaret, S. J.,** Hesselbo, S. P. Rasbury, E. T. and Ebel, D. S. (2020). Petrography and Provenance of Triassic Impact Ejecta from SW England, United Kingdom. 51th Lunar and Planetary Science Conference, LPI Contribution No. 2326, 2020, id.2389
- Shetyanman, L. **Jaret, S. J.** and Ebel, D. S. (2020). Survey of Zircon Textures at Gardnos Impact Structure. 51th Lunar and Planetary Science Conference, LPI Contribution No. 2326, 2020, id.3010
- Jaret, S. J.,** Sims, M., Whitaker, M., Johnson, J. R., and Glotch, T. G. (2019). Plagioclase at Extreme Conditions: More than just pressure effects. Geological Society of America Abstracts with Programs. Vol. 51, No. 5 doi: 10.1130/abs/2019AM-333885 (Invited)
- Jaret, S. J.,** Moes, N., Bojsza, E. and Ganesan, R. (2018). Jargon Police: An interactive game for teaching science communication. Geological Society of America Abstracts with Programs. Vol. 50, No. 6 doi: 10.1130/abs/2018AM-321155
- Jaret, S. J.,** King, D. T., Tailby, N. D., Adams, M. C., and Ebel, D. S. (2019) Impact Melt Clasts from the Flynn Creek Impact Structure, Tennessee - Temperature Constraints from Titanium-in-Quartz Thermometry. 50th Lunar and Planetary Science Conference, LPI Contribution No. 2132, id.3170
- Jaret S. J.,** Rasbury E.T. & Harris R.S. (2018) A (Relatively) Fast Technique for Finding Impact Ejecta Horizons in the Stratigraphic Record Goldschmidt Abstracts, 2018 1152
- Jaret, S. J.;** Harris, R. S.; Rasbury, E. T.; Albin, E. F. (2018). The Martha's Vineyard Tektite Revisited: A Distinct Subcategory of North American Tektite. 49th Lunar and Planetary Science Conference LPI Contribution No. 2083, id.2574

- Jaret, S. J.**, Sims, M., Johnson, J. R., Ehm, L., and Glotch, T. D. (2017). Metastability of Plagioclase Under Compression and Decompression. Lunar and Planetary Science Conference abstract No. 2482.
- Jaret, S. J.**, Adrian, D. R., De Marchi, L., King Jr, D., and Rasbury, E. T. (2017). Melt Products at the Flynn Creek Impact Structure, Tennessee. Geological Society of America Abstracts with Programs. Vol. 49, No. 6 doi: 10.1130/abs/2017AM-305282
- Johnson, J. R., **Jaret, S. J.**, and Glotch, T. D. (2017). Micro-Thermal Infrared Imaging Spectroscopy of Experimentally Shocked Plagioclase Feldspars. Lunar and Planetary Science Conference abstract No. 1733.
- Adrian, D. R., King, D. T., **Jaret, S. J.**, Ormö, J., Petruny, L. W., Hagerty, J. J., and Gaither, T. A. (2017). Sedimentological and Petrographic Analysis of Drill Core FC77-1 from the Flank of the Central Uplift, Flynn Creek Impact Structure, Tennessee. Lunar and Planetary Science Conference abstract No. 1768.
- de Marchi, L., King, D. T., Ormö, J., Petruny, L. W., Adrian, D. R., Hagerty, J. J., Gaither, T. A., and **Jaret, S. J.** (2017). Marine Resurge Sequences in Drill Cores FC67-3 and FC77-3 — Flynn Creek Impact Structure, Tennessee. Lunar and Planetary Science Conference abstract No. 1765.
- Jaret, S. J.**, Sims, M., Johnson, J. R., and Glotch, T. D. (2016). Micro-Raman and Micro-FTIR Spectroscopy of Experimentally Shocked Bytownite. AGU abstract.
- Jaret, S. J.**, Hemming, S. R., Rasbury, T., Glotch, T. D. and Thompson, L. M. (2016). How to Interpret the ages of martian shergottites: Lessons from the Manicouagan Impact Structure, Canada. Geological Society of America Abstracts with Programs. Vol. 48, No.7 doi: 10.1130/abs/2016AM-282770
- Harris, R. S., **Jaret, S. J.**, and Albin, E. F. (2016). The Challenges of Investigating Potential Impact Structures in Ancient Tectonic Terrains: A Case Study from Woodbury, GA, USA. Geological Society of America Abstracts with Programs. Vol. 48, No. 7 doi: 10.1130/abs/2016AM-285067.
- Jaret, S. J.**, Hemming, S. R., Rasbury, E. T., Ramezani, J., and Jacobsen, S. B. (2016). The Case for an impact at the Gardnos Impact Structure at 385 Ma. 79th Annual Meeting of the Meteoritical Society, abstract no. 6476.
- Jaret, S. J.**, Johnson, J. R., Sims, M., and Glotch, T. D. (2016). Micro-Raman Spectroscopy of Experimentally shocked Albite. Lunar and Planetary Science Conference, abstract 1530.
- Harris, R. S., Fleisher, C., and **Jaret, S. J.** (2016). Mineralogy of Spherules at the Cretaceous-Paleogene Impact Boundary in South Carolina: Implications for Plume Processes and Bolide Identification. Lunar and Planetary Science Conference abstract No. 2840.
- Sklute, E. C., Dyar, M. D., Kashyap, S., Holden, J. F., and **Jaret, S. J.** (2016). Spectral Characteristics of Nanophase Iron Oxides and Hydroxides, Lunar and Planetary Science Conference, abstract 2112
- Ebel, D. S., Mahmood, S. **Jaret, S. J.**, Bigolski, J. N., Aldoroty, R. J., Sessa, J. A., and Landman, N. H. (2015). New Jersey, A most habitable place during an asteroid strike: shocked quartz and iridium co-occur below a Maastrichtian mollusk community on the NJ coastal plain. Geological Society of America Abstracts with Programs. Vol. 47, No. 7, p.281
- Jaret, S. J.**, Johnson, J. R., Sims, M., Ehm, L. and Glotch, T. D. (2015) High Pressure Deformation of Andesine Feldspars: A comparison of static and dynamic experiments. Geological Society of America *Abstracts with Programs*. Vol. 47, No. 7, p.355
- Jaret, S. J.** and Rasbury, E. T. (2015). Provenance of Cambrian sediments on the passive margin of Laurentia: a comparison of the Potsdam Sandstone and Poughquag Quartzite in upstate NY. Geological Society of America Abstracts with Programs. Vol. 47, No. 7, p.159
- Harris, R. S.; Doar, W. R.; **Jaret, S. J.**; Rasbury, E. T.; Fleisher, C. (2015). A New Cretaceous-Paleogene Impact Sequence in South Carolina: An Analog for Laminated Spherule Deposits on Mars. 46th Lunar and Planetary Science Conference, LPI Contribution No. 1832, p.2969

- Jaret, S. J.;** Glotch, T. D.; Phillips, B. L. Wright, S. P., King, D. T. (2015). Coesite at the Lunar Crater: The Importance of Pre-Impact Alteration and Shock Heterogeneity. 46th Lunar and Planetary Science Conference, LPI Contribution No. 1832, p.2086
- Jaret, S. J.;** Glotch, T. D.; Johnson, J. R. (2015). Micro-Raman and Micro-FTIR Spectroscopy of Experimentally Shocked Andesine. 46th Lunar and Planetary Science Conference, LPI Contribution No. 1832, p.2056.
- Jaret, S. J.;** Glotch, T. D.; Johnson, J. R. (2014). Characterizing Shock Metamorphism in Feldspar Using Micro-Raman Spectroscopy. 11th International GeoRaman Conference, June 15-19, 2014 in St. Louis, Missouri. LPI Contribution No. 1783, id.5095
- Jaret, S. J.,** and Rasbury, E. T., (2015). Provenance of the Potstam Sandstone from Laser Ablation U-Pb ages of Detrital Zircons. Geological Society of America *Abstracts with Programs*. Vol. 47, No. 3, p.80
- Jaret, S. J.;** Woerner, W. R.; Phillips, B. P.; Wright, S. P.; Glotch, T. D. (2014). Maskelynite: How Isotropic Is It? 45th Lunar and Planetary Science Conference, Texas. LPI Contribution No. 1777, p.2151
- Mayne, R. G.; **Jaret, S. J.;** Herrmann, B. C. (2014). When Classification Gets Complicated: The Ingalls "Impact-Like" Structure. 45th Lunar and Planetary Science Conference, LPI Contribution No. 1777, p.1035
- Jaret, S. J.** Glotch, T. D. Wright, S. P. (2013). Micro-FTIR and Micro-Raman Spectroscopy of a Shocked Basalt from the Lunar Crater, India. 44th Lunar and Planetary Science Conference, LPI Contribution No. 1719, p.2881