RHONDA MICHELE STROUD CIRRICULUM VITAE

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EDUCATION

Ph.D.	1996 Physics	Washington University, St. Louis, MO
A. B.	1991 Physics	Cornell University, Ithaca, NY

PROFESSIONAL EXPERIENCE

2022-Present	Director, Buseck Center for Meteorite Studies & Professor, School of Earth & Space Exploration, Arizona State University
2007-2022	Head, Nanoscale Materials Section, Naval Research Laboratory
2014, 2016-2017	Acting Head, Accelerator Mass Spectrometry Section, Naval Research Laboratory
1998- 2007	Research Physicist, Naval Research Laboratory, Washington, DC
1996-1998	NRC/NRL Cooperative Research Associate, Naval Research Laboratory
1995	Part-time Instructor, St. Louis Community College, Meramec

RESEARCH INTERESTS

- Formation and processing histories of nanoscale astromaterials
- Evolution of organic matter in the Solar System
- Electron, ion and x-ray beam characterization and modification of materials at the micrometer to atomic scale
- Sample Return Missions
- In Situ Resource Utilization on the Moon

AWARDS AND RECOGNITION

2023 Faculty of Impact Award
2022 Fellowship in the Microanalysis Society
2021 Fellowship in the Microscopy Society of America
2020 Antarctic Service Medal (for work on the South Pole Cosmic Dust Sucker)
2014 Fellowship in the Meteoritical Society
2013 NASA Group Achievement Award– Stardust Interstellar Preliminary Examination Team
2023, 2022, 2020, 2013, 2004, 2002, 2000 Naval Research Lab Berman Publication Award
2012 Naming of Asteroid 8468Rhondastroud by the International Astronomical Union
2009 Fellowship in the American Physical Society
2003 Sigma Xi NRL Edison Chapter Young Investigator Award
1996-1998 National Research Council Postdoctoral Fellowship Award
1991-1996 Olin Graduate Fellowship, Washington University
1991-1994 NSF National Need Fellowship, Washington University
1991 Distinction in All Subjects, Cornell University

SERVICE

2025-Present, Member, Eyring Center Governing Board

2024 Co-organizer of a 2-day workshop on Presolar Grains at SESE
2023-2024, Chair, SESE Presidential Postdoctoral Fellowship Search Committee
2023, Member, ASU Eyring Center electron microscope professional hiring committee
2023 Lead organizer for a 2-day international symposium on Solar System Exploration by Spacecraft and Microscope in honor of the dedication of the Buseck Center for Meteorite Studies.
2022-Present, Member, SESE Annual Personnel Review Committee
2022-2023 Member, SESE Tenure & Promotion By-Laws Committee
2023-2027 Lead organizer for 2027 Meteoritical Society Meeting, Flagstaff AZ
2023-2025 Monash University Electron Microscopy Center Advisory Board Member, Monash Australia
2023-Present, Meteoritical Society Ethics Committee
2020-Present, Microanalysis Society Finance Committee
2023-2024 Theme Lead, Goldschmidt 2024 Conference
2022-2023 International Review Committee for Microscopy Australia
2020-2022 Panelist, NAS Planetary Science Decadal Survey
2021-2022 Symposium Organizer, Goldschmidt 2022
2018-2020 President, Microanalysis Society
2018-Present, Advisory Committee, Microscopy Australia
2019 Mentor, US Department of State, International Visitor Leadership Program, Hidden No More, 50 women in STEM from 50 countries
2019-2020 Meteoritical Society Nominating Committee Chair
2018-2020 NASA Planetary Science Division Advisory Committee Member
2018 DOE External Review Committee for Materials Science Division, Oak Ridge National Laboratory
2017-2022 Chair, NASA Extraterrestrial Materials Analysis Stardust Subcommittee
2014-2017 Strategic Planning Chair, Microanalysis Society of America
2015-2016 Panel Member, National Academy of Science Triennial Review of the National Nanotech Initiative
2014 & 2015 Organizer, symposia on Earth and Planetary Microanalysis, Microscopy and Microanalysis Meeting
2013-2016 Antarctic Meteorite Working Group member
2006-2016 NASA CAPTEM STARDUST Committee member
2011-2013 Director, Executive Council of the Microanalysis Society
2009 DOE External Review Committees for Oak Ridge and Lawrence Berkeley National Laboratory Electron Microscopy User Facilities
2011-2014 Chair, NASA Cosmochemistry Program Management Operations Working Group
2009-2011 NASA Cosmochemistry Program Management Operations Working Group
2006-2007 Tour Speaker, Microbeam Analysis Society
2006-2007 President, NRL Sigma Xi Chapter
2002-2005 President, NRL Women in Science
NASA Review Panel Member for Emerging Worlds, LARS

PROFESSIONAL SOCIETIES

American Physical Society, Meteoritical Society, Microscopy Society of America, Microanalysis Society, Materials Research Society, American Geophysical Union

TEACHING AND MENTORING

Year	Term	Title	Credit Hours	Enrollment UG/G/
2025	Spring	Intro. to Stars, Galaxies and Cosmology AST 112	4	~180/0
2024	Fall	Electron Microscopy for Geology and Planetary Science SES 494/598	3	0/3
2024	Spring	Intro. to Stars, Galaxies and Cosmology AST 112	4	~180/0
2023	Spring	Electron Microscopy for Geology and Planetary Science SES 494/598	3	1/9
1995	Spring	Electricity, Magnetism, & Optics (St. Louis Community College)	3	~30

PROFESSIONAL DEVELOPMENT RELATED TO TEACHING, INSTRUCTION, AND MENTORING AT ASU

2024: ICAP Faculty Workshop on Increasing Active Learning in STEMM
2023: Inclusion Habits Pilot Program, online daily practice in developing inclusive community skills
2023: ACUE Course: Creating an Inclusive and Supporting Learning Environment, 8-week online course with 7 modules

In addition to my formal classroom teaching, I have served as an instructor at the ASU High Resolution Electron Microscopy Winterschool in 2023, 2024. I also advise graduate research, undergraduate research and honors thesis credits. In my prior position at the Naval Research Laboratory, I mentored postdoctoral fellows, visiting graduate students, and summer high school interns, as well as contractors and federal employees.

STUDENTS/POSTDOCS MENTORED:

At ASU (7 undergraduate, 8 graduate students (2 as primary advisor), 1 postdoc)
2025-pres. Valentina Ferrero Fuentes (PhD student, thesis committee member)
2025-pres. Maya Watkins (Barret Honors College, undergraduate research assistant)
2025-pres. Charly Bisson (Barret Honors College, undergraduate research assistant)
2024- pres. Rishant Prakash (PhD student, thesis committee member)
2024-pres. Cassandra Kraver (PhD student, thesis committee member))
2024- pres. Havi Tripathi (PhD student, primary advisor)
2024- 2025. Krishna Kotagari (Barret Honors College, undergraduate research assistant)

2024 Nishtha Kukreja (Barret Honors College, undergraduate research assistant)
2024-2025 Griffin Roy (Barrett Honors College, SESE astrophysics major advisor)
2023- 2025. Imene Kerraouch (Postdoctoral Fellow)
2023- 2025. Eric Orson (Barrett Honors College, undergraduate research assistant, honors thesis, now in graduate school at the University of Michigan)
2023-2024 Sam Campbell (Barret Honors College, Spacegrant project)
2022- pres. Anna Sophia Hindrichs (PhD student, primary advisor)
2022- pres. Anuva Annanya (PhD student, second project advisor)
2022- 2025 Megan Householder (PhD student, thesis committee member, degree awarded)
2022- pres. Leah Shteyman (PhD student, thesis committee member)

Prior to ASU (10 postdoctoral fellows, 3 visiting graduate students, 3 high school summer interns) mentee current position listed in ()

2021-2022	Brittany Cymes, Postdoctoral Fellow, co -advisor (Contractor, Johnson Space Center)
2019-2022	Sheryl Singerling, Postdoctoral Fellow, (TEM lab manager, Goethe University, Frankfurt)
2018	Eric Bour, High school summer intern, (astrophysics PhD student, Cambridge University, UK)
2019-2021	Andrew Lang, ASEE Postdoctoral Fellow (Materials Engineer, Naval Research Laboratory)
2018-2019	Mathew Crane, U. Washington PhD student, visiting Goldstein Scholar at Naval Research Laboratory (Assistant Professor, Colorado School of Mines)
2017-2018	Amy Ng, NRC Postdoctoral Fellow co-advisor (Private Industry)
2015-2016	Michale Katz, NRC Postdoctoral Fellow co-advisor (Staff Scientist, National Institute for Standards and Technology, Gaithersburg)
2014-2016	Katherine Burgess, NRC Postdoctoral Fellow (Research Geologist, Naval Research Laboratory)
2014-2015	Brendan Haas, Washington University PhD Student, visiting Goldstein Scholar at NRL (Private Industry)
2012-2014	Aki Takigawa, Postdoctoral Fellow co-advisor (Professor, University of Tokyo)
2009, 2014	Ingrid Koch, high school summer intern., Washington University PhD student, visiting scholar at Naval Research Laboratory (Private Industry)
2008	Spencer Stebbins, High school summer intern (Private Industry)
2007-2009	Bradely De Gregorio, NRC Postdoctoral Fellow (Research Geologist, Naval Research Laboratory)
2005-2006	Mitra Taheri, NRC Postdoctoral Fellow (Professor, Johns Hopkins University)
2004-2006	Thomas Zega, NRC Postdoctoral Fellow (Professor, University of Arizona)

PUBLICATIONS

Summary
218 peer-reviewed journal publications, 29 since joining ASU, 1 with ASU graduate student first-author, 64 conference proceeding since 2019, 4 with ASU students and postdocs, and 3 book chapter, 2 since joining ASU.

Total Citations: 16,345, 700 citable works, h-index 66 (Google Scholar December, 2025)
ORCID ID 0000-0001-5242-8015 (note that the ORCID record and WOS records are incomplete due to complications with moving institutions and resolving duplicate R. Stroud records).

italics: post-doctoral fellow, underline/double underline: Stroud graduate/undergraduate advisee, */**: other graduate/undergraduate student.

Peer-Reviewed Journal Articles

218. Miyahara, M., T. Noguchi, T. Matsumoto, N. Tomioka, A. Miyake, Y. Igami, Y. Seto, M. Haruta, H. Saito, S. Hata, H. A. Ishii, J. P. Bradley, K. K. Ohtaki, E. Dobrică, H. Leroux, C. Le Guillou, D. Jacob, F. de la Peña, S. Laforet, B.-E. Mouloud, M. Marinova, F. Langenhorst, D. Harries, P. Beck, T. H. V. Phan, R. Rebois, N. M. Abreu, J. Gray, T. Zega, P.-M. Zanetta, M. S. Thompson, **R. Stroud**, K. Burgess, B. A. Cymes, J. C. Bridges, L. Hicks, M. R. Lee, L. Daly, P. A. Bland, M. E. Zolensky, D. R. Frank, J. Martinez, A. Tsuchiyama, M. Yasutake, J. Matsuno, S. Okumura, I. Mitsukawa, K. Uesugi, M. Uesugi, A. Takeuchi, M. Sun, S. Enju, A. Takigawa, T. Michikami, T. Nakamura, M. Matsumoto, Y. Nakauchi, M. Abe, S. Nakazawa, T. Okada, T. Saiki, S. Tanaka, F. Terui, M. Yoshikawa, A. Miyazaki, A. Nakato, M. Nishimura, T. Usui, T. Yada, H. Yurimoto, K. Nagashima, N. Kawasaki, N. Sakamotoa, R. Okazaki, H. Yabuta, H. Naraoka, K. Sakamoto, S. Tachibana, S.-i. Watanabe and Y. Tsuda 2024. Microscopic slickenside as a record of weak shock metamorphism in the surface layer of asteroid Ryugu. *Meteoritics & Planetary Science* **59**(12): 3181-3192. IF 2.

217. Yee, P. Y., S. Brittman, P. D. Cunningham, **R. M. Stroud**, K. D. Burgess, S. C. Erwin, J. L. Lyons, M. H. Stewart, B. A. Marcheschi, B. Durant, C. T. Ellis, and J. E. Boercker. 2024. Copper Doping Blueshifts the Lowest-Energy Optical Transition of PbS Nanocrystals, *Chemistry of Materials*. IF 8.

216. Stroud, R. M., J. Barosch, L. Bonal, K. Burgess, G. D. Cody, B. T. De Gregorio, L. Daly, E. Dartois, E. Dobrică, J. Duprat, C. Engrand, D. Harries, M. Hashiguchi, H. Ishii, Y. Kebukawa, A. D. Kilcoyne, F. Langenhorst, M. R. Lee, L. R. Nittler, E. Quirico, T. Okumura, L. Remusat, S. Sandford, H. Yabuta, M. Abe, N. M. Abreu, P. A. J. Bagot, P. Beck, L. Bejach, P. A. Bland, J. C. Bridges, B. A. Cymes, A. Dazzi, F. de la Peña, A. Deniset-Besseau, S. Enju, Y. Enokido, D. R. Frank, J. Gray, M. Haruta, S. Hata, L. Hicks, Y. Igami, D. Jacob, K. Kamide, M. Komatsu, S. Laforet, H. Leroux, C. Le Guillou, Z. Martins, M. Marinova, J. Martinez, J. Mathurin, M. Matsumoto, T. Matsumoto, J. Matsuno, S. McFadzean, T. Michikami, I. Mitsukawa, A. Miyake, M. Miyahara, A. Miyazaki, G. Montagnac, S. Mostefaoui, T. Nakamura, A. Nakato, H. Naraoka, Y. Nakauchi, S. Nakazawa, M. Nishimura, T. Noguchi, K. Ohtaki, T. Ohigashi, T. Okada, S. Okumura, R. Okazaki, T. H. V. Phan, R. Rebois, K. Sakamoto, T. Saiki, H. Saito, Y. Seto, M. Shigenaka, W. Smith, H. Suga, M. Sun, S. Tachibana, Y. Takahashi, Y. Takeichi, A. Takeuchi, A. Takigawa, Y. Tamenori, S. Tanaka, F. Terui, M. S. Thompson, N. Tomioka, A. Tsuchiyama, Y. Tsuda, K. Uesugi, M. Uesugi, T. Usui, M. Verdier-Paoletti, D. Wakabayashi, S. I. Watanabe, T. Yada, S. Yamashita, M. Yasutake,

K. Yogata, M. Yoshikawa, H. Yurimoto, P. M. Zanetta, T. Zega, and M. E. Zolensky. 2024. 'Electron Microscopy Observations of the Diversity of Ryugu Organic Matter and Its Relationship to Minerals at the Micro- to Nano-Scale', *Meteoritics and Planetary Science*, **59**: 2023-43. IF 2.89

215. Rojas, J., J. Duprat, E. Dartois, T. D. Wu, C. Engrand, L. R. Nittler, N. Bardin, L. Delauche, S. Mostefaoui, L. Remusat, **R. M. Stroud**, and B. Guérin. 2024. 'Nitrogen-Rich Organics from Comets Probed by Ultra-Carbonaceous Antarctic Micrometeorites', *Nature Astronomy*. IF 15.7

214. Quirico, E., L. Bonal, Y. Kebukawa, K. Amano, H. Yabuta, V. T. H. Phan, P. Beck, L. Rémusat, E. Dartois, C. Engrand, Z. Martins, L. Bejach, A. Dazzi, A. Deniset-Besseau, J. Duprat, J. Mathurin, G. Montagnac, J. Barosch, G. D. Cody, B. De Gregorio, Y. Enokido, M. Hashiguchi, K. Kamide, D. Kilcoyne, M. Komatsu, M. Matsumoto, S. Mostefaoui, L. Nittler, T. Ohigashi, T. Okumura, S. Sandford, M. Shigenaka, **R. Stroud**, H. Suga, Y. Takahashi, Y. Takeichi, Y. Tamenori, M. Verdier-Paoletti, D. Wakabayashi, S. Yamashita, T. Nakamura, H. Naraoka, T. Noguchi, R. Okazaki, H. Yurimoto, K. Sakamoto, S. Tachibana, S. I. Watanabe, Y. Tsuda, T. Yada, M. Nishimura, A. Nakato, A. Miyazaki, K. Yogata, M. Abe, T. Okada, T. Usui, M. Yoshikawa, T. Saiki, S. Tanaka, F. Terui, and S. Nakazawa. 2024. 'Compositional Heterogeneity of Insoluble Organic Matter Extracted from Asteroid Ryugu Samples', *Meteoritics and Planetary Science*, **59**: 1907-24. IF 2.89 Stroud role: discussion of data and editing. Phan, V. T. H., P. Beck, R. Rebois, E. Quirico, T. Noguchi, T. Matsumoto, A. Miyake, Y. Igami, M. Haruta, H. Saito, S. Hata, Y. Seto, M. Miyahara, N. Tomioka, H. A. Ishii, J. P. Bradley, K. K. Ohtaki, E. Dobrică, H. Leroux, C. Le Guillou, D. Jacob, F. de la Peña, S. Laforet, M. Marinova, F. Langenhorst, D. Harries, N. M. Abreu, J. Gray, T. Zega, P. M. Zanetta, M. S. Thompson, **R. Stroud**, J. Mathurin, A. Dazzi, E. Dartois, C. Engrand, K. Burgess, B. A. Cymes, J. C. Bridges, L. Hicks, M. R. Lee, L. Daly, P. A. Bland, M. E. Zolensky, D. R. Frank, J. Martinez, A. Tsuchiyama, M. Yasutake, J. Matsuno, S. Okumura, I. Mitsukawa, K. Uesugi, M. Uesugi, A. Takeuchi, M. Sun, S. Enju, A. Takigawa, T. Michikami, T. Nakamura, M. Matsumoto, Y. Nakauchi, M. Abe, S. Nakazawa, T. Okada, T. Saiki, S. Tanaka, F. Terui, M. Yoshikawa, A. Miyazaki, A. Nakato, M. Nishimura, T. Usui, T. Yada, H. Yurimoto, K. Nagashima, N. Kawasaki, N. Sakamotoa, P. Hoppe, R. Okazaki, H. Yabuta, H. Naraoka, K. Sakamoto, S. Tachibana, S. I. Watanabe, and Y. Tsuda. 2024. 'In Situ Investigation of an Organic Micro-Globule and Its Mineralogical Context within a Ryugu "Sand" Grain', *Meteoritics and Planetary Science*, **59**: 1983-2001. IF 2.89 Stroud role: discussion of data and editing.

212. Noguchi, T., T. Matsumoto, A. Miyake, Y. Igami, M. Haruta, H. Saito, S. Hata, Y. Seto, M. Miyahara, N. Tomioka, H. A. Ishii, J. P. Bradley, K. K. Ohtaki, E. Dobrică, H. Leroux, C. L. Guillou, D. Jacob, F. de la Peña, S. Laforet, B. E. Mouloud, M. Marinova, F. Langenhorst, D. Harries, P. Beck, T. H. V. Phan, R. Rebois, N. M. Abreu, J. Gray, T. Zega, P. M. Zanetta, M. S. Thompson, **R. Stroud**, K. Burgess, B. A. Cymes, J. C. Bridges, L. Hicks, M. R. Lee, L. Daly, P. A. Bland, W. A. Smith, S. McFadzean, P. E. Martin, P. A. J. Bagot, D. Fougerouse, D. W. Saxey, S. Reddy, W. D. A. Rickard, M. E. Zolensky, D. R. Frank, J. Martinez, A. Tsuchiyama, M. Yasutake, J. Matsuno, S.

Okumura, I. Mitsukawa, K. Uesugi, M. Uesugi, A. Takeuchi, M. Sun, S. Enju, A. Takigawa, T. Michikami, T. Nakamura, M. Matsumoto, Y. Nakauchi, M. Abe, S. Nakazawa, T. Okada, T. Saiki, S. Tanaka, F. Terui, M. Yoshikawa, A. Miyazaki, A. Nakato, M. Nishimura, T. Usui, T. Yada, H. Yurimoto, K. Nagashima, N. Kawasaki, N. Sakamotoa, P. Hoppe, R. Okazaki, H. Yabuta, H. Naraoka, K. Sakamoto, S. Tachibana, S. I. Watanabe, and Y. Tsuda. 2024. 'Mineralogy and Petrology of Fine-Grained Samples Recovered from the Asteroid (162173) Ryugu', *Meteoritics and Planetary Science*, **59**: 1877-906. IF 2.89

211. Nittler, L. R., J. Barosch, K. Burgess, **R. M. Stroud**, J. Wang, H. Yabuta, Y. Enokido, M. Matsumoto, T. Nakamura, Y. Kebukawa, S. Yamashita, Y. Takahashi, L. Bejach, L. Bonal, G. D. Cody, E. Dartois, A. Dazzi, B. De Gregorio, A. Deniset-Besseau, J. Duprat, C. Engrand, M. Hashiguchi, A. L. D. Kilcoyne, M. Komatsu, Z. Martins, J. Mathurin, G. Montagnac, S. Mostefaoui, T. Okumura, E. Quirico, L. Remusat, S. Sandford, M. Shigenaka, H. Suga, Y. Takeichi, Y. Tamenori, M. Verdier-Paoletti, D. Wakabayashi, M. Abe, K. Kamide, A. Miyazaki, A. Nakato, S. Nakazawa, M. Nishimura, T. Okada, T. Saiki, S. Tanaka, F. Terui, T. Usui, T. Yada, K. Yogata, M. Yoshikawa, H. Yurimoto, T. Noguchi, R. Okazaki, H. Naraoka, K. Sakamoto, S. Tachibana, S. I. Watanabe, and Y. Tsuda. 2024. 'Microscale Hydrogen, Carbon, and Nitrogen Isotopic Diversity of Organic Matter in Asteroid Ryugu', *Earth and Planetary Science Letters*, **637**. IF 4.8 Stroud role: ion beam and electron microscopy, data interpretation and editting
210. Mouloud, B. E., D. Jacob, F. de la Peña, M. Marinova, C. Le Guillou, J. C. Viennet, S. Laforet, H. Leroux, A. Teurtrie, T. Noguchi, T. Matsumoto, A. Miyake, Y. Igami, M. Haruta, H. Saito, S. Hata, Y. Seto, M. Miyahara, N. Tomioka, H. A. Ishii, J. P. Bradley, K. K. Ohtaki, E. Dobrica, F. Langenhorst, D. Harries, P. Beck, T. H. V. Phan, R. Rebois, N. M. Abreu, J. Gray, T. Zega, P. M. Zanetta, M. S. Thompson, **R. Stroud**, K. Burgess, B. A. Cymes, J. C. Bridges, L. Hicks, M. R. Lee, L. Daly, P. A. Bland, M. E. Zolensky, D. R. Frank, J. Martinez, A. Tsuchiyama, M. Yasutake, J. Matsuno, S. Okumura, I. Mitsukawa, K. Uesugi, M. Uesugi, A. Takeuchi, M. Sun, S. Enju, A. Takigawa, T. Michikami, T. Nakamura, M. Matsumoto, Y. Nakauchi, M. Abe, S. Nakazawa, T. Okada, T. Saiki, S. Tanaka, F. Terui, M. Yoshikawa, A. Miyazaki, A. Nakato, M. Nishimura, T. Usui, T. Yada, H. Yurimoto, K. Nagashima, N. Kawasaki, N. Sakamotoa, R. Okazaki, H. Yabuta, H. Naraoka, K. Sakamoto, S. Tachibana, S. I. Watanabe, and Y. Tsuda. 2024. 'Four-Dimensional-STEM Analysis of the Phyllosilicate-Rich Matrix of Ryugu Samples', *Meteoritics and Planetary Science*, **59**: 2002-22. IF 2.89
209. Matsumoto, T., T. Noguchi, A. Miyake, Y. Igami, M. Haruta, Y. Seto, M. Miyahara, N. Tomioka, H. Saito, S. Hata, D. Harries, A. Takigawa, Y. Nakauchi, S. Tachibana, T. Nakamura, M. Matsumoto, H. A. Ishii, J. P. Bradley, K. Ohtaki, E. Dobrică, H. Leroux, C. Le Guillou, D. Jacob, F. de la Peña, S. Laforet, M. Marinova, F. Langenhorst, P. Beck, T. H. V. Phan, R. Rebois, N. M. Abreu, J. Gray, T. Zega, P. M. Zanetta, M. S. Thompson, **R. Stroud**, K. Burgess, B. A. Cymes, J. C. Bridges, L. Hicks, M. R. Lee, L. Daly, P. A. Bland, M. E. Zolensky, D. R. Frank, J. Martinez, A. Tsuchiyama, M. Yasutake, J. Matsuno, S. Okumura, I. Mitsukawa, K. Uesugi, M. Uesugi, A. Takeuchi, M. Sun, S. Enju, T. Michikami, H. Yurimoto, R. Okazaki, H. Yabuta, H. Naraoka, K. Sakamoto, T. Yada, M. Nishimura, A. Nakato, A. Miyazaki, K. Yogata, M. Abe, T. Okada, T. Usui, M. Yoshikawa, T. Saiki, S. Tanaka, F. Terui, S. Nakazawa, S. I. Watanabe, and Y. Tsuda.

2024. 'Influx of Nitrogen-Rich Material from the Outer Solar System Indicated by Iron Nitride in Ryugu Samples', *Nature Astronomy*, **8**: 207-15. IF 15.7

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207. Liu, N., C. M. O.'D. Alexander, B. S. Meyer, L. R. Nittler, J. Wang, and **R. M. Stroud**. 2024. 'Explosive Nucleosynthesis in Core-Collapse Type II Supernovae: Insights from New C, N, Si, and Al-Mg Isotopic Compositions of Presolar Grains', *Astrophysical Journal Letters*, **961**. IF 8.8 Stroud role: intellectual content, figure preparation, data discusson, editing.

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13. De Gregorio, B. T., C. M. O'D. Alexander, and **R. M. Stroud**. 2020. "Nanoscale Heterogeneity of Insoluble Organic Matter from Primitive Chondrites." In *51st Lunar and Planetary Science Conference*, 2651.

12. Singerling, S. A., N. Liu, L. R. Nittler, C. M. O'D. Alexander, and **R. M. Stroud**. 2020a. "Tem Structural and Compositional Studies of Presolar Sic Grains and Their Relation to Raman Spectra." In *51st Lunar and Planetary Science Conference*, 2403.

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10. Stroud, Rhonda, and Bethany Hudak. 2020. "Temperature Dependence of Impurity Distributions in Nanodiamonds as Revealed by Coordinated Uhv-Stem Edx and Eels Analysis." In *Microscopy and Microanalysis*, 1506-07.
9. Stroud, R. M., *M. J. Verdier-Paoletti*, and L. R. Nittler. 2020. "In Situ Transmission Electron Microscopy of Oxygen-Rich Presolar Grains in the Paris Meteorite." In *51st Lunar and Planetary Science Conference*, 2900.
8. Singerling, Sheryl, Nan Liu, Larry Nittler, Conel Alexander, and **Rhonda Stroud**. 2020. "TEM Structural and Compositional Studies of Presolar SiC Grains and Their Relation to Raman Spectra." In *Microscopy and Microanalysis*, 2052-55.
7. Brintlinger, Todd H., Jose Fonseca Vega, James Clifford Culbertson, Maxim Zalalutdinov, **Rhonda M. Stroud**, and Jeremy T. Robinson. 2019. "Lattice Registry and Evidence for Surface Reconstructions of Metal Films on Suspended 2d Membranes Following Annealing." In *Microscopy and Microanalysis*, 1516-17.
6. De Gregorio, B. T., and **R. M. Stroud**. 2019. "Revealing Histories of Nanoscale Components in Primitive Planetary Materials with High-Resolution Electron and X-Ray Microscopies." In *Asteroid Science in the Age of Hayabusa2 and OSIRIS-REx*, 2130.
5. De Gregorio, B. T., **R. M. Stroud**, and C. M. O'D. Alexander. 2019. "Nanodiamonds in Carbonaceous Chondrites: Contextual Clues of Formation." In *50th Lunar and Planetary Science Conference*, 1643.
4. Stroud, Rhonda M. 2019. "Aberration-Corrected STEM Analysis of Impurities in Cosmic Nanodiamonds and Synthetic Analogs." In *Microscopy and Microanalysis*, 1736-37.
3. De Gregorio, Bradley T., Conel M. O'D. Alexander, and **Rhonda M. Stroud**. 2019. "Analysis of in Situ Nanodiamonds in Organic Matter from Primitive Meteorites with Electron Energy-Loss Spectroscopy and Energy Dispersive X-Ray Spectroscopy." In *Microscopy and Microanalysis*, 2456-57.
2. Stroud, R. M., M. Lagos, and P. E. Batson. 2019. "Infrared Spectroscopy of Individual Sub-Micron Presolar and Early Solar System Dust Grains in the Electron Microscope." In *50th Lunar and Planetary Science Conference*, 2259.
1. Taylor, S., J. H. Lever, C. M. O'D. Alexander, A. Bardyn, L. R. Nittler, D. E. Brownlee, K. Burgess, **R. M. Stroud**, K. Farley, and J. Treffkorn. 2019. "Sampling Interplanetary Dust Particles from Antarctic Air." In *51st Lunar and Planetary Science Conference*, 2514.

WHITE PAPERS AND NATIONAL ACADEMIES REPORTS (7/2)

Reports

2. National Academies of Sciences, Engineering, and Medicine. 2023. *Origins, Worlds, and Life: Planetary Science and Astrobiology in the Next Decade* (The National Academies Press: Washington, DC).

1. National Academies of Sciences, Engineering, and Medicine. 2016. *Triennial Review of the National Nanotechnology Initiative* (The National Academies Press: Washington, DC).

White Papers for the 2023 Origins, Worlds, and Life: Planetary Science and Astrobiology in the Next Decade (7)

1. Horanyi, Mihaly, N. Turner, T. Balint, C. Alexander, J. Castillo-Rogez, B. Draine, C. Engrand, J. Hillier, H. Ishii, S. Kempf, M. Lugaro, S. Merouane, T. Munsat, D. Nesvorný, L. Nittler, P. Pokorný, F. Postrberg, R. Sarama, T. Stephan, V. Sterken, Z. Sternovsky, R. Stroud, J. Szalay, A. Westphal, D. Wooden, E. Grün, A. Poppe, Z. Hu, M. Fries, and A. Graps. 2021. "Interplanetary and interstellar dust as windows into solar system origins and evolution." In, 122. DOI: 10.3847/25c2cfeb.1845c627

2. Ishii, Hope, Catherine M. Corrigan, Maitrayee Bose, Jemma Davidson, Marc Fries, Juliane Gross, James Karner, Larry R. Nittler, Devin L. Schrader, Rhonda Stroud, and Susan Taylor. 2021. "Terrestrial Recovery of Extraterrestrial Materials: Providing Continued, Long-Term Sample Analysis Opportunities for Research and Mission Support." In, 062. DOI: 10.3847/25c2cfeb.d9e4fc9a
3. McCubbin, Francis, Judith H. Allton, Jessica J. Barnes, Michael J. Calaway, Catherine M. Corrigan, Justin Filiberto, Marc D. Fries, Juliane Gross, Andrea D. Harrington, Christopher D. K. Herd, Aurore Hutzler, Hope A. Ishii, Timothy J. McCoy, Kevin McKeegan, Julie L. Mitchell, Larry R. Nittler, Aaron B. Regberg, Kevin Righter, Christopher J. Snead, Rhonda Stroud, Kimberly T. Tait, Toru Yada, Ryan A. Zeigler, Michael E. Zolensky, and Eileen K. Stansbery. 2021. "Advanced Curation of Astromaterials for Planetary Science Over the Next Decade." In, 021. DOI: 10.3847/25c2cfeb.1c20e2ca

4. Milam, Stefanie, Jason P. Dworkin, Jamie E. Elsila, Daniel P. Glavin, Perry A. Gerakines, Julie L. Mitchell, Keiko Nakamura-Messenger, Marc Neveu, Larry Nittler, James Parker, Elisa Quintana, Scott A. Sandford, Joshua E. Schlieder, Rhonda Stroud, Melissa G. Trainer, Meenakshi Wadhwa, Andrew J. Westphal, Michael Zolensky, Dennis Bodewits, and Simon Clemett. 2021. "Volatile Sample Return in the Solar System." In, 049.
   DOI: 10.3847/25c2cfeb.d94f26c7

5. Nittler, Larry, and Rhonda Stroud. 2021. "On the Importance of Presolar Grains for Planetary Science." In, 237. DOI: 10.3847/25c2cfeb.05e87277

6. Stroud, Rhonda, Jessica Barnes, Larry Nittler, Juliane Gross, Jemma Davidson, Catherine Corrigan, Hope Ishii, Jamie Elsila Cook, Justin Filiberto, Samuel Lawrence, Michael Zolensky, Devin Schrader, Barbara Cohen, and Kevin McKeegan. 2021. "Strategic Investment in Laboratory Analysis of Planetary Materials as Ground Truth for Solar System Exploration." In, 174. DOI: 10.3847/25c2cfeb.063f146a

7. Westphal, Andrew, Larry R. Nittler, Rhonda Stroud, Michael E. Zolensky, Nancy L. Chabot, Neil Dello Russo, Jamie E. Elsila, Scott A. Sandford, Daniel P. Glavin, Michael E. Evans, Joseph A. Nuth, Jessica Sunshine, Ronald J. Vervack, Jr., and Harold A.

Weaver. 2021. "Cryogenic Comet Sample Return." In, 014. DOI: 10.3847/25c2cfeb.6197be94

RESEARCH FUNDING at ASU (*FY 2025 expenditures & F&A as of 9/9/24)

FY	Proposals	Awards	Expenditures	F&A Income
2025	$5,240,243	$25,001	$75,109*	$26,803*
2024	$4,334,088	$118,742	$191,673	$69,336
2023	$6,594,023	$416,501	$106,382	$38,410
Total	$16,168,354	$560,244	$298,055	$107,746

Total investigator recognition $**2,713975.**

RESEARCH FUNDING PRIOR TO ASU

Summary. 9 NASA proposals awarded as PI since 2010 totaling > $6M. 23 NASA proposals awarded as Co-investigator or Collaborator. Internally Competed Awards at the Naval Research Laboratory as PI (2017-2021), ~$4.5M.

PATENTS (11 awarded)

Rolison D. R., Wallace J. M., Pietron J. J., Rice J. K., and Stroud R. M. (2004) Silica mesoporous aerogels having three-dimensional nanoarchitecture with colloidal gold-protein superstructures nanoglued therein. **US Patent 6,824,776**.

Rolison D., Pietron J., and Stroud R. (2006) Catalytic three dimensional aerogels having mesoporous nanoarchitecture. **US Patent 7,081,433**.

Rolison D. R., Wallace J. M., Pietron J. J., Rice J. K., and Stroud R. M. (2007) Silica mesoporous aerogels having three-dimensional nanoarchitecture with colloidal gold-protein superstructures nanoglued therein. **US Patent 7,238,729**.

Dressick W. J., Wahl K. J., Petrovykh D. Y., Bassim N. D., and Stroud R. M. (2018) Polyelectrolyte multilayers having salt-controlled internal structures. **US Patent 9,895,713**.

Whitener K. E., Lee W. K., Robinson J. T., Bassim N. D., Stroud R. M., and Sheehan P. E. (2018) Graphene surface functionality transfer. **US Patent 9,895,870**.

Sutto T. E., Ng A., Bassim N. D., Brintlinger T. H., Osofsky M. S., and Stroud R. M. (2018) Method for preparing clean insulating single or few sheets of topological insulators using an ionic liquid. **US Patent 10,640,377**.

Pietron, Jeremy J, Paul A Desario, Debra R Rolison, Todd H Brintlinger, and Rhonda Michele Stroud. 2021. "Copper nanoparticle-titania composite nanoarchitectures." In.: **US Patent 11,027,258**.

Stroud R. M., Crane M. J., and Pauzauskie P. J. (2022) Molecularly doped nanodiamond. **US Patent 11,325,086**

Boercker, Janice E, Sarah F Brittman, Joseph G Tischler, Patrick Y Yee, Chase T Ellis, Paul D Cunningham, Rhonda M Stroud, Michael H Stewart, and Steven C Erwin. (2021). "Cu2-xS/PbS Core/Shell Nanocrystals." US Patent 2021332291-A1

Boercker J. E., Brittman S. F., Tischler J. G., Yee P. Y., Ellis C. T., Cunningham P. D., Stroud R. M., Stewart M. H., and Erwin S. C. (2023) Core/shell nanocrystals with copper sulfide cores and lead sulfide shells. **US Patent 11,732,186.**

Yee P. Y., Brittman S. F., Cunningham P. D., Boercker J. E., Burgess K. D., Stroud R. M., and Erwin S. C. (2023) Methods of forming nanocrystals and related crystals and optoelectronic devices. **US Patent 12,435,272.**

PRESENTATIONS SINCE JOINING ASU (personally presented only) 14 invited, 12 contributed

INVITED CONFERENCE PRESENTATIONS
Microscopy Conference 2025, Karlsruhe, Germany, September, 2025
Spectra Ultra Facility Opening, McMaster University, Hamilton, Ontario, Canada, June, 2025
Asian Pacific Microscopy Conference, Brisbane, Australia, February 2025
EDGE, Harrison Hot Springs, British Columbia, CA, June 2024
Microscopy and Microanalysis, Minneapolis, MN, August 2023
Solar System Exploration by Space Craft and Microscope, Tempe, AZ, March 2023
Nion Co, Open House, Kirkland, Washington, August 2022

INVITED DEPARTMENT LECTURES
Monash Electron Microscopy Center, July 2025
Cornell University Applied & Engineering Physics, September, 2024
School of Earth and Space Exploration Colloquium, April, 2024

INVITED PUBLIC LECTURES AND PRESENTATIONS
Astronomy on Tap, December 2025
Cornell University Henri Sack Memorial Lecture, September 2024
Homolovi State Park, Winslow, AZ, August, 2024
SESE Community Conversation, December 2023
Fountain Hills Dark Sky Night, April 2023
Phoenix Astronomy Club, September 2023

CONTRIBUTED PRESENTATIONS AT PROFESSIONAL CONFERENCES

PanDust 2025, November, 2025
Bennu/Ryugu Sample Analysis, October, 2025
Meteoritical Society, July, 2025
Microscopy and Microanalysis, July, 2025
American Geophysical Union. December 2024
Goldschmidt, Chicago, August, 2024
Meteoritical Society Meeting, Brussels, Belgium, August, 2024
Presolar Grain Workshop, Tempe, AZ, January, 2024
Meteoritical Society, Los Angeles, August 2023
Gordon Conference on the Origin of Solar Systems, July 2023
NASA ExMAG (Extraterrestrial Materials Analysis Group), 2023
Hayabusa2 Symposium, Sagamihara, Japan November 2022
Spence Symposium, ASU September, 2022

Meteoritical Society, August 2022
Goldschmidt, Honolulu, July, 2022

MEDIA INTERVIEWS, 6 since joining ASU
NBC12 Hidden Arizona news Segment on the BCMS Meteorite Gallery, December 2024
ABC15 Hidden Gems news segment on the BCMS Meteorite Gallery, September 2022
Arizona PBS Segment on Psyche, August 2023
Wall Street journal article on water in Chang'E glass samples, March 2023
IEEE Spectrum on water in Chang'E glass samples, April 2023
Arizona Republic article on Geminids meteorite shower