

# Christine B. Shupla

Lunar and Planetary Institute (LPI)

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Christine Shupla is the Manager for Science Engagement at LPI, with 17 years of experience with the planetary science community, 15 additional years of experience in informal science education, and growing expertise in facilitating diversity and inclusion discussions.

## Professional Preparation

University of Texas in Austin	Bachelor of Arts, Astronomy	1989
University of North Carolina at Chapel Hill	MA, Education (Curriculum & Instruction)	1991

## Appointments

Science Engagement Manager	Lunar and Planetary Institute	2019 - current
Education Specialist/ Education Lead	Lunar and Planetary Institute	2005 – 2018
Planetarium Director / Manager/ Asst Manager	Arizona Science Center	1997 – 2005
Planetarium Coordinator	Don Harrington Discovery Center	1992 – 1997

## Synergistic Activities

- Manages LPI's science engagement efforts, providing professional development and resources to assist planetary scientists and informal science educators in their efforts to engage audiences and conducting in-person and virtual programs for all ages.
- Facilitates LPI's internal diversity, equity, accessibility, and inclusion (DEIA) seminars, Braving Diversity, with input and assistance from staff. Leads and facilitates DEIA workshops and presentations at conferences.
- Co-Investigator for Planetary ReaCH [a NASA SMD Science Activation (SciAct) project]: facilitating workshops for planetary scientists and informal educators in which they work together to learn how to engage Black and Latinx communities in planetary science. Active member of SciAct Broadening Participation working group.
- Co-Investigator for NASA@ My Library (a NASA SMD Science Activation project): connecting libraries to NASA science activities, resources, and opportunities.
- Leads LPI's professional development and materials development for informal educators, including disseminating NASA SMD resources to the American Camp Association.
- As Principal Investigator for the Sustainable Trainer Engagement Program (STEP), conducted long-term professional development for middle school science specialists to support their own efforts providing professional development for middle school science teachers.
- Conducted hundreds of workshops for librarians, planetarians, and other out-of-school time educators, teachers, and pre-service teachers on Earth and space science topics, ranging from short conference sessions to week-long professional development institutes.
- Created dozens of original hands-on activities for outreach events, for use in informal education settings, and for use in the classroom, both original and from existing materials, to address Earth and space science standards, topics, and misconceptions.

## Select Publications and Presentations

Shupla, C., Beaudoin, G., Shaner, A., Webb, S. (2022) [Engaging Diverse Communities in Planetary Science](#), presented at the IDEA in Planetary Science Conference, 2022.

Shupla, C., Alonso, L., Calvillo, B., Hernandez, B., Faniola, M., Webb, S. (2021) [Authentic Partnerships for Supporting Diverse Communities](#), presented at the Division for Planetary Science conference, 2021.

Shupla, C., Shaner, A., Webb, S. (2021) [Preparing Virtually for Virtual Programs](#), presented at the 52<sup>nd</sup> Lunar and Planetary Science Conference, 2021.

LaConte, K., Mitchell, B., Shupla, C., Liston, C., Fitzhugh, G. (2021) [Lessons Learned from NASA STEM Workshops for Impact Professional Development](#), Public Library Quarterly, 01 Feb. 2021.

Shupla, C., LaConte, K., Liston, C., and Fitzhugh, G. (2020) Virtual Programs with NASA Scientists for Libraries, presented at the American Geophysical Union Fall General Assembly 2020.

Shupla, C., Shaner, A., Webb, S. (2020) [Virtually Engaging Audiences in Planetary Science](#), presented at the Division of Planetary Science Annual Conference, 2020.

Shupla, C., Matiella Novak, M.A., Rivera-Valentín, E. (2020) Submitting a Competitive Internship Application, presented at the Society for Advancement of Chicanos/Hispanics and Native American Scientists (SACNAS) annual conference, 2018, 2019, and 2020.

Shupla, C., Rivera-Valentín, E., Shaner, A., Taylor, P., Webb, S. (2019) [Exploring Planetary Defense for Informal Audiences](#), presented at the EPSC-DPS Joint Meeting 2019.

Shupla, C., Matiella-Novak, A., Shaner, A., Webb, (2019) [Preparing Scientists to Engage the Public](#), presented at the American Geophysical Union Fall General Assembly 2019.

Shupla, C., Hawkins, I., Aponte-Hernandez, B., Peticolas, L. (2018) [Authentic Partnerships for Engaging Diverse Audiences](#), *Advancing Astronomy for All*, ASP Conference Series Vol. 524, Astronomical Society of the Pacific.

Shupla, C., Bialeschki, M.D., Shaner, A., Smith Hackler, A. (2017) [Reaching New Audiences Through Camps](#), presented at the 48<sup>th</sup> Lunar and Planetary Science Conference, the Woodlands, TX.

Shupla, C., Mason, T., Peticolas, L., and Hauck, K. (2017) [Engaging Audiences in Planetary Science Through Visualizations](#), presented at the American Geophysical Union Fall General Assembly 2017.

Shupla C. (2016) [Planetary exploration in science education](#). *The Universe in the Classroom* 90, 1-6.

Shupla, C. (2015) Real human exploration of Mars. *The Planetarian* 44, 18-34.

Shupla, C. et al (2015) [Lessons from a Train-the-Trainer Professional Development Program](#), presented at the 46<sup>th</sup> Lunar and Planetary Science Conference, the Woodlands, TX.

Shupla, C., Buxner, S., Cobb, W., Lebofsky, L., and Weeks, S. (2014) [The Nature of Astronomy: Addressing the Nature of Science within NGSS](#), *Celebrating Science*, ASP Conference Series Vol. 500, Astronomical Society of the Pacific.

Shupla, C. et al 2014, [Sharing Mission Resources through Libraries: A New Model](#), presented at the 45<sup>th</sup> Lunar and Planetary Science Conference, the Woodlands, TX.

Shupla, C. et al (2012) [Engaging and Supporting Culturally Diverse Audiences](#), *Communicating Science*, ASP Conference Series Vol. 473, Astronomical Society of the Pacific.

Shupla, C., and Shipp, S. 2009, [Accessing the Moon: Engaging Diverse Audiences in Current and Future Lunar Exploration](#), AAS, Long Beach, CA.

Editor-in-Chief, electronic publication, *Great Western Observer*, 2003 - 2005.

Associate Editor, *The Planetarian*, 1995 – 2000

### **Awarded Grants**

Co-Investigator, [Planetary Resources and Content Heroes \(ReaCH\)](#), NASA SMD Science Activation program, 2021 - 2025

Co-Investigator, [NASA@ My Library](#), NASA SMD Science Activation Program, 2019 - 2022

Principal Investigator, [Sustainable Trainer Engagement Program \(STEP\)](#), 2012 – 2016 (Concluded)

Co-Investigator, [MyMoon](#), NASA SMD EPOESS, 2008 – 2011 (Concluded)

Co-Investigator, [Faculty Institute for NASA Earth and Space Science Education \(FINESSE\)](#), NASA SMD EPOESS, 2008 – 2013 (Concluded)

### **Service and Honors**

- Member, LPI Inclusion, Diversity, Equity, and Accessibility (IDEA) Advisory Committee (2022)
- Member, Program Committee, Lunar and Planetary Science Conference (LPSC) 2015, 2021, 2022, 2023
- University Space Research Association (USRA) President's 2020 Team Excellence Award
- International Planetarium Society (IPS) Fellow
- Co-Convener and Co-Chair, various sessions at the American Geophysical Union, 2017- current
- Reviewer, NASA Office of STEM Engagement proposals
- Reviewer, NSF Operations review
- Member, Organizing Committee for the Conference of the ASP 2010 - 2014
- President, Southwest Association of Teacher Education (SW-ASTE) 2012-2013
- Co-Chair, Organizing Committee, Annual Conference of the Astronomical Society of the Pacific (ASP) 2012
- Outreach Committee Chair, International Planetarium Society (IPS) 2000 - 2005
- President, Rocky Mountain Planetarium Association (RMPA) 2000 – 2002
- Conference Co-Host, Desert Skies Planetarium Conference 1999