

PCE3 Newsletter



General Announcements

PCE3 is now also on BlueSky! Follow us [@pce3-sci.bsky.social](https://bsky.app/profile/pce3-sci.bsky.social)

Have something you would like to share with the PCE3 community? Feel free to let us know [here](#).

Call for volunteers for the Science Communication team!

Interested in joining the PCE3 Science Communication team? Early- and mid-career scientists are encouraged to join. If you are interested, contact pce3scicomm@gmail.com

Scroll at the bottom of this newsletter for a complete list of all PCE3-related AbSciCon 2026 sessions!

Check out the PCE3 Sci. Comm. twitter [here](#) for more updates.

Ask an Author

[A Roadmap for the Exploration of Enceladus](#) with Dr. Laura Rodriguez

- Q: **What excites you the most about this paper?**
 - **A:** *I am most excited about introducing our concept of “the organic state of a planetary body” as a framework for designing mission objectives that directly test origin-of-life hypotheses. Given the many open questions in the origin of life field, astrobiologically relevant missions and concepts often constrain related objectives to inventorying biologically relevant compounds, focusing instead on habitability or life detection. I hope this framework encourages missions to pursue science that more directly advances origin-of-life research.*

- **Q: What was the biggest challenge in your research?**
 - **A:** *The biggest challenge for me was writing the first half of the paper, which focuses on objectives grounded in geophysical models. This required parsing a large body of literature that was outside my expertise in analytical chemistry. Fortunately, I had excellent collaborators to facilitate my understanding and provide edits. I aimed to write these sections in a way that helps non-experts understand which physical measurements would be most useful for interpreting Enceladus' origins, thermal history, and long-term habitability.*

Upcoming Meetings & Events

[Rocky Worlds 4](#)

January 19 – 23, 2026. Groningen, Netherlands

[IAUS 404 Symposium: Advancing the Search for Technosignatures](#)

March 2 - 6, 2026. Online

[Digital Twins in Astrobiology Hackathon](#)

March 9 – 13, 2026. Online and hybrid (ETH Zurich, Switzerland)

[EGU26 General Assembly](#)

May 3 – 8, 2026. Vienna, Austria and online

[Potential & Limitations of Evolutionary Processes Meeting \(PLEP '26\)](#)

May 10 – 14, 2026. Lower Galilee, Israel

[Astrobiology Science Conference 2026 \(AbSciCon'26\)](#)

May 17 – 22, 2026. Madison, WI, USA

[Origins 2026 – ISSOL & IAU Joint Symposium](#)

July 5 – 10, Paris, France

[Interdisciplinary Origin of Life Meeting for Early Career Researchers \(IOoL2026\)](#)

September, 2026. Tokyo, Japan. Exact dates TBD

Courses:

[Machine Learning Short Course for Sample Science](#)

March 30 - April 10, 2026. Virtual

[RED Training School: Rencontres Exobiologiques pour Doctorants](#)

March 2026, Le Teich, France: in person; June 2026: virtual. Exact dates TBD

[Spring School: Tracking the evolution of planetary systems and planets](#)

April 15 – 22, 2026. Liblice, Czech Republic

[Extraterrestrial Materials Academy \(ETMA\)](#)

August 12 - 15, 2026. LPI, Houston, Texas

News

General News

[Sugars, 'Gum,' Stardust Found in NASA's Asteroid Bennu Samples](#)

[3.7-Billion-Year-Old Rocks in Australia Are Rewriting the Story of Earth's First Continents](#)

[NASA Cassini Study Finds Organics 'Fresh' From Ocean of Enceladus](#)

Funding Opportunities

[Research Opportunities in Space and Earth Science \(ROSES\)-2025](#) Next deadline: March 31st

[John Templeton Foundation](#), next OFI due by August 14, 2026

[NSF Chemistry of Life Processes](#), no due date

[NASA Astrobiology Early Career Collaboration Award \(TBD, Spring 2026\)](#)

[Future Investigators in NASA Earth and Space Science and Technology 2025 \(Deadline TBD - not yet released\)](#)

Career Opportunities

[Research Associate in Mars Glaciology, University of Sheffield \(Jan. 19th, 2026\)](#)

[Tenure-track Faculty Position, Department of Astrophysical and Planetary Sciences, University of Colorado Boulder \(Jan. 30th, 2026\)](#)

[NASA Postdoctoral Program \(March 1st, 2026\)](#)

[PostDoc position in scientific machine learning, University of Bern](#)

[Faculty Position in Prebiotic Chemistry at the University of Geneva \(March 15th, 2026\)](#)

AbSciCon'26 Sessions Related to PCE3

- 01 - [AI and Machine Learning for Discovery and Biosignature Detection in Astrobiology](#)
- 02 - [AI-Driven Autonomous Exploration of Prebiotic Chemistry and Planetary Environments](#)
- 09 - [Connecting Instrument Experts and Developers with Analog Scientists To Test Mission-Relevant Life-Detection Capabilities](#)
- 10 - [Deciphering planetary organic inventories across the abiotic - prebiotic - biotic spectrum: uncovering the signs of life as we might not know it](#)
- 14 - [Earth as a window for searching for Habitable Worlds](#)
- 18 - [Microscopic Worlds, Macroscopic Questions: Fluid Inclusions and Their Astrobiological Potential](#)
- 22 - [Applying Biosignatures to Constrain the Fingerprint, Origins, Evolution, and Evolvability of Life](#)
- 23 - [Beyond an RNA - Protein World: The Roles of Other Polymers in Life's Origins](#)
- 24 - [Compartmentalization: From Molecular Tunnels to Communities](#)
- 28 - [Origins of Life in Planetary Context](#)
- 29 - [Proteins: From So Simple a Beginning](#)
- 32 - [How Disequilibria Fuels Life: Observations of metabolic opportunities related to dramatic environmental gradients](#)
- 36 - [The Emergence and Evolution of Metabolic Machines](#)
- 46 - [Luna: A Laboratory for Life – The Moon as an Abiotic Platform for Astrobiological Science](#)
- 84 - [Biopolymers to bridge prebiotic chemistry and simple biology](#)
- 85 - [Planetary and Environmental Context for Prebiotic Chemistry](#)
- 86 - [Alive but not Life: An Exploration of Living System Models That Do Not Use or Rely Upon Biochemistry](#)
- 87 - [Dry–Wet Cycling as a Driver of Chemical Evolution](#)
- 88 - [Exploring self-assembly and self-organization: from prebiotic molecules to the emergence of organic complexity and implications towards the future exploration of Ocean World](#)
- 89 - [From Stardust to Stargazing: Drivers of Evolution from Chemistry to Biology](#)

- 90 - [Mechanisms for the Prebiotic Emergence of Homochirality and Implications for Life Detection](#)
 - 91 - [New Approaches to Bridging the Abiotic–Biotic Divide: From Catalytic Assemblies to Network Analysis to Information Theory](#)
 - 93 - [The Messy Chemistry of Planetary Environments: Prebiotic Chemistry Experiments of Planetary Analogues](#)
 - 94 - [Prebiotic Organic Chemistry in Solar System and their Role in the Emergence of Life on the early Earth](#)
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