

UA SCIENCE PRESENTS

SCIENCE CAFÉ

FALL 2018 LECTURE SERIES



JOIN THE CONVERSATION!

The UA Science Café Series brings the community together with UA scientists and graduate students at five casual venues around Tucson.

Listen and learn about our cutting-edge research, get to know the faces behind the science, and take the opportunity to ask questions and deepen your understanding of the world around you.



Now On Facebook & YouTube Live!

What if you're out of town or have a conflict? You can still stay current with UA Science. Catch the Science Cafés online in the moment or at a more convenient time.

- ▶ **Visit Facebook Live to see most Science Café talks:**
<https://goo.gl/RQvdkD>
- ▶ **SaddleBrooke Science Café can be seen live on YouTube:**
<https://goo.gl/QnRNhX>

The Fall 2018 series of Science Café videos are also available on the College of Science website: <https://goo.gl/2sViM2>

Check out past Science Café talks on the UA Science Community Connections YouTube channel: <https://goo.gl/2sViM2>

Science Café @ the Garden



The Diversity of Life: Origins, Perils, and Conservation

Have you ever marveled at the beauty and diversity of life on Earth and pondered how it all came to be? How life is organized from cells to ecosystems? Why biodiversity is important? What current threats imperil biodiversity, and how do we respond to them? Join experts in a series of talks that explore the origins of life, the processes underlying its diversity, impacts of invasive species, and the dramatic efforts to restore some of the most endangered plants on the planet.

Series special offer! Science Café Guests are invited to stroll the gardens from 4:30 - 8:00, courtesy of the Tucson Botanical Gardens.

▶ **Rescuing Hawai'i's Silverswords and Lobeliads from the Brink of Extinction**

Thursday, September 6, 2018 @ 6:00 pm

Rob Robichaux, *University Distinguished Professor of Ecology and Evolutionary Biology, University of Arizona*

▶ **Plant Diversity: A History of Duplications and Innovations**

Thursday, October 4, 2018 @ 6:00 pm

Mike Barker, *Associate Professor of Ecology and Evolutionary Biology, University of Arizona*

▶ **Beyond Buffelgrass: What makes a Plant Invasive?**

Thursday, November 1, 2018 @ 6:00 pm

Katrina Dlugosch, *Associate Professor of Ecology and Evolutionary Biology, University of Arizona*

▶ **From Cells to Ecosystems: The Future of Biodiversity**

Thursday, December 6, 2018 @ 6:00 pm

Brian Enquist, *Professor of Ecology and Evolutionary Biology, University of Arizona*

▶ Tucson Botanical Gardens ◀

2150 N Alvernon Way
Tucson, AZ

Tumamoc Hill



Campos de Fuego: Explorations of the Pinacate Volcanic Range

The **Science Café at Tumamoc Hill** provides speakers on topics that relate to the science, history, archaeology, and educational mission of Tumamoc Hill, located to the west of “A” Mountain, near downtown. The talks are held in the library of the old Desert Laboratory, the buildings that are roughly half-way up the Hill. Reservations required; please contact Cynthia Anson at desertlaboratory@gmail.com or 520-629-9455.

▶ **The Pinacate Volcanoes**

Wednesday, September 5, 2018 @ 6:00 pm

Dan Lynch, *Geologist, PhD Alumni, Department of Geosciences, University of Arizona*

▶ **Time Frame: An Artist's Long-term Relationship with Pinacate**

Wednesday, October 3, 2018 @ 6:00 pm

Richard Laugharn, *Artist/Editor, UA Center for Creative Photography and UA Southwest Center, University of Arizona*

▶ **Sonoran Pronghorn in the Pinacate Biosphere Reserve**

Wednesday, November 7, 2018 @ 6:00 pm

Miguel Angel Grageda Garcia

Reserva de la Biosfera El Pinacate y Gran Desierto de Altar, Sonora, Mexico

▶ **The Ties that Bind: Natural History of Plant and Animal Interactions in El Pinacate**

Wednesday, December 5, 2018 @ 6:00 pm

Paul Dayton

Professor, Integrative Oceanography Division at Scripps Institute of Oceanography, University of California, San Diego

Borderlands Brewing



A Song of Ice (and Floods) and Fire: Consequences of a Changing Climate

Effective environmental conservation requires obtaining data through multifaceted techniques. In this series four Carson Scholars will explore how methods as personal as storytelling to strategies as remote as robotic sampling are used to conserve our planet and its inhabitants.

▶ **Rise of the Shrubs: Fire Regimes in the Sonoran Desert**

Thursday, September 13 @ 6:00 pm

Austin Rutherford, *Ph.D. Student, School of Natural Resources and the Environment, University of Arizona*

▶ **A Foggy Forecast: Using Cloud Cover to Predict Arctic Sea Ice Decline**

Thursday, October 11 @ 6:00 pm

Yiyi Huang, *PhD student, Department of Hydrology and Atmospheric Sciences, University of Arizona*

▶ **Mosquitoes in the Sewer: Dengue in Puerto Rico after Hurricane Maria**

Thursday, November 8 @ 6:00 pm

Valerie Madera-Garcia, *PhD student, Mel & Enid Zuckerman College of Public Health, University of Arizona*

▶ **“Maji ni Haki - Water is Our Right”: Pipes, Politics and Informal Water Supply in Kibera**

Thursday, December 13 @ 6:00 pm

Nupur Joshi, *Ph.D. Student, School of Geography and Development, University of Arizona*

▶ **Borderlands Brewing** ◀

119 E. Toole Ave
Tucson, AZ

Downtown Science Café



Women in Science: Pioneers to the Present

Women have done groundbreaking research in many fields of science. Although they did not always receive the recognition they deserved. Fortunately, women have worked hard for equality, and social norms in the United States have shifted. Today female researchers do outstanding work in every field of science, and their contributions rank on an equal footing with male researchers. This series features leading women researchers from the University of Arizona. Each presenter will reference a female researcher who came before them in their field at a time when few women were able to pursue a career in science.

▶ **Tree Rings Reveal Earth's Past**

Tuesday, September 18 @ 6:00 pm

Valerie Trouet, *Associate Professor, Laboratory of Tree-Ring Research, University of Arizona*

▶ **The Race for Ground Water - A Shrinking Resource**

Tuesday, October 16 @ 6:00 pm

Jen McIntosh, *Professor, UA Distinguished Scholar, Hydrology and Atmospheric Sciences, University of Arizona*

▶ **Life Beyond Earth: The Science of Astrobiology**

Tuesday, November 20 @ 6:00 pm

Betul Kacar, *NASA Early Career Fellow, Assistant Professor, Department of Molecular and Cellular Biology and Astronomy, University of Arizona*

▶ **Seeing Back in Time: How Gravity Bends Light to Create a Natural Telescope in Space**

Tuesday, December 11 @ 6:00 pm

Brenda Frye, *Assistant Professor, Steward Observatory, University of Arizona*

▶ **Magpie's Gourmet Pizza** ◀

605 N. 4th Ave
Tucson, AZ

SaddleBrooke Science Café



Mysteries Revealed: Discoveries in Chemistry

We start this series with the history of how chemical sciences began and our how our fundamental understanding has led to everyday, modern advances and medical breakthroughs. Who knew that the invention of beer-making would kickstart a series of groundbreaking discoveries encompassing human and environmental health? A myriad of topics, ranging from the properties of snake venom to the chemical drivers of human behavior will be explored. Join the conversation!

► **Everyday Biochemistry: How It Works and Why It Matters**

Thursday, October 11 @ 6:30 pm

Roger L. Miesfeld, PhD., *Distinguished Professor and Department Head, Chemistry and Biochemistry, University of Arizona*

► **Venoms: The Chemistry of Life and Death**

Thursday, November 8 @ 6:30 pm

Matt Cordes, *Associate Professor, Chemistry and Biochemistry, University of Arizona*

► **3-D Drug Design**

Tuesday December 11 @ 6:30 pm

Wolfgang Peti, *Homer C. and Emily Davis Weed Endowed Professor, Chemistry and Biochemistry, University of Arizona*

► **Desert View Performing Arts Center** ◀

39900 S. Clubhouse Drive
Tucson, AZ

The Science Café series is brought to you by the UA College of Science. Experience all that we have to offer by visiting our outreach venues.

▶ **FLANDRAU SCIENCE CENTER & PLANETARIUM**

1601 E. University Blvd., Tucson, AZ 85721
520-621-4516 · flandrau.org

▶ **BIOSPHERE 2**

32540 S. Biosphere Rd., Oracle, AZ 85623
520-838-6155 · biosphere2.org

▶ **TUMAMOC HILL**

Off West Anklam Rd., West of North Silverbell Rd., Tucson, AZ
520-629-9455 · tumamoc.arizona.edu

▶ **UA SCIENCE MT. LEMMON SKYCENTER**

520-626-8122 · skycenter.arizona.edu

▶ **RICHARD F. CARIS MIRROR LAB**

527 National Championship Dr., Tucson, Arizona
520-626-8792 · mirrorlab.as.arizona.edu

▶ **LABORATORY OF TREE RING RESEARCH**

1215 E. Lowell St., Tucson, Arizona 85721
520-621-1608 · ltrr.arizona.edu

WANT TO LEARN MORE?

To sign up for our email reminders and see the most up-to-date information, visit the UA College of Science website at cos.arizona.edu and click on “Community Connections.”

For more information, contact Erin Deely
at 520-621-3374 or visit bitly.com/UASciCafe



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