



## 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.

### 3 convenient ways to watch:

- ▶ **Watch Live via Facebook Live!**  
<https://goo.gl/RQvdkD>
- ▶ **Watch On Demand at your leisure, simply select your venue and go!**  
<https://bitly.com/UASciCafe>
- ▶ **Catch up on past Science Cafés on our Youtube channel!**  
<https://goo.gl/2sViM2>

## Science Café @ the Garden



### Why There is No Planet B

Learn of the cutting-edge science happening at the world's largest, longest, and most important closed ecosystem study ever: Biosphere 2. Essential environmental systems impact our quality of life through the air, water, soil, and biodiversity. Lessons from this model of Biosphere 1, our planet Earth, shed light on how we must endeavor to reconnect to the natural world if we hope to adapt to a changing climate.

**Series special offer!** Guests of the Science Café are invited to stroll the gardens after the talk, courtesy of the Tucson Botanical Gardens (Open until 8:00 PM)

- ▶ **Biosphere 2: Science for the Future of Our Planet**  
September 5th, 2019 @ 6:00 pm  
Kevin Bonine, *Director Education-Outreach, Biosphere 2, University of Arizona*
- ▶ **Changing Landscapes from the Ground Up**  
October 3rd, 2019 @ 6:00 pm  
Katerina Dontsova, *Associate Professor, Department of Environmental Science, University of Arizona*
- ▶ **Coral Reef Resilience: Hope for the Oceans**  
November 7th @ 6:00 pm  
Diane Thompson, *Assistant Professor, Department of Geosciences, Director of Marine Research, Biosphere 2, University of Arizona*
- ▶ **Effects of Drought on Tropical Rainforests**  
December 5th, 2019 @ 6:00 pm  
Laura Meredith, *Assistant Professor, UA School of Natural Resources and the Environment, Biosphere 2, University of Arizona*

### ▶ Tucson Botanical Gardens ◀

2150 N Alvernon Way  
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](http://flandrau.org)
- ▶ **BIOSPHERE 2**  
32540 S. Biosphere Rd., Oracle, AZ 85623  
520-838-6155 · [biosphere2.org](http://biosphere2.org)
- ▶ **DESERT LABORATORY AT TUMAMOC HILL**  
Off West Anklam Rd., West of North Silverbell Rd., Tucson, AZ  
520-629-9455 · [tumamoc.arizona.edu](http://tumamoc.arizona.edu)
- ▶ **UA SCIENCE MT. LEMMON SKYCENTER**  
520-626-8122 · [skycenter.arizona.edu](http://skycenter.arizona.edu)
- ▶ **RICHARD F. CARIS MIRROR LAB**  
527 National Championship Dr., Tucson, Arizona  
520-626-8792 · [mirrorlab.as.arizona.edu](http://mirrorlab.as.arizona.edu)
- ▶ **LABORATORY OF TREE RING RESEARCH**  
1215 E. Lowell St., Tucson, Arizona 85721  
520-621-1608 · [ltrr.arizona.edu](http://ltrr.arizona.edu)

## BE IN THE KNOW

Sign-up to receive monthly Science Café announcements and get up to date information at [bitly.com/UASciCafe](http://bitly.com/UASciCafe).

For more information about the Cafés, contact Erin Deely at 520-621-3374 or visit [bitly.com/UASciCafe](http://bitly.com/UASciCafe)



# UA SCIENCE PRESENTS SCIENCE CAFÉ FALL 2019 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, ask questions and deepen your understanding of the world around you.





# Desert Laboratory



## New Explorations on the Río Mayo

Did you know that the Sonoran Desert originated in part from the tropics? The Río Mayo drainage of the Sierra Madre mountains near Álamos, Sonora, Mexico, is a convergence zone of astonishing biological and cultural diversity. Research into this unique and imperiled ecosystem at the Desert Laboratory on Tumamoc Hill extends back to the 1940s. Please join the Desert Laboratory and The Southwest Center for this series as we venture back to the Río Mayo and hear from a diversity of researchers and community members who will highlight new explorations, biocultural understandings, and efforts to preserve the tropics next door. **Limited seating, for reservations contact: [desetlaboratory@gmail.com](mailto:desetlaboratory@gmail.com) or 520-629-9455**

- ▶ **Conserving the Dry Forest and Its Biocultural Diversity**  
September 11th, 2019 @ 6:00 pm  
Lydia Lozano, Program Director, Nature and Culture International
- ▶ **Life of the Secret Forest**  
October 9th, 2019 @ 6:00 pm  
Dra. Angelina Martínez Yrizar, Instituto de Ecología, Universidad Nacional Autónoma de México
- ▶ **The Social Fabric of the Sierra**  
November 13th, 2019 @ 6:00 pm  
Jeff Banister, Director, Associate Research Professor, Associate Research Social Scientist and David Yetman, Research Social Scientist, Southwest Center, College of Social and Behavioral Sciences, University of Arizona
- ▶ **Multiple Ways of Knowing**  
December 11th, 2019 @ 6:00 pm  
Dra. Teresa Valdivia, Instituto de Estudios Antropológicos, Universidad Autónoma de México

## ▶ Desert Laboratory on Tumamoc Hill ◀

1675 W. Anklam Rd.,  
Tucson, AZ

# Borderlands Brewing



## Water, Water Everywhere - But Will it Always Be?

Scientists have long realized water's vitality, but its patterns—from rivers to rain and more—are becoming harder to predict. The water norms we grew up with aren't the norms of the future or even the present. Researchers in the Carson Scholars program are working to understand how changes in water fluctuation and frequency will effect humans, animals and places. By looking at different ecosystems and different "kinds" of water, and by working with those who have to adapt, we are getting closer to understanding what the future might hold. In this series, we will talk water and life, from Africa to Arizona and from ice ages to ice melt.

- ▶ **Memories of the Monsoon: What Molecular Fossils Can Reveal About our Desert Rains**  
September 12th, 2019 @ 6:00 pm  
Dervla Meegan Kumar, Ph.D. Student, Department of Geosciences, University of Arizona
- ▶ **Texting the Climate: How Farmers in Southern Africa are Meeting the Future**  
October 10th, 2019 @ 6:00 pm  
Andy Zimmer, Ph.D. Student, Department of Geography and Development, University of Arizona
- ▶ **What Can Tropical Pacific Corals Tell Us about Climate Change?**  
November 14th, 2019 @ 6:00 pm  
Emma Reed, Ph.D. Student, Department of Geosciences, University of Arizona
- ▶ **Fixing Conservation with Duct Tape: A Story of Science, Zoos, and Snakes**  
December 12th, 2019 @ 6:00 pm  
Brian Blais, Ph.D. Student, School of Natural Resources and the Environment, University of Arizona

## ▶ Borderlands Brewing ◀

119 E. Toole Ave  
Tucson, AZ

# Downtown Science Café



## Our Blue Planet: Ocean Science Finds Answers

Humans live on land, yet we depend on the world's oceans for our survival. Fully 71% of the Earth's surface is ocean! That's why Earth is called the Blue Planet. Those vast bodies of water help to keep our planet cool, they balance the chemistry of our atmosphere, they drive the water cycle that brings us rain and snow. Not only are oceans crucial for the health of the planet, they are also home to a marvelous abundance of species and ecosystems, a cradle of life. Join us for this science café series to explore the Science of Oceans.

- ▶ **Life In Our Oceans: The Ecology That Sustains A Planet**  
September 17th @ 6:00 pm  
Dr. Katrina Mangin, Lecturer, Department of Ecology and Evolutionary Biology, University of Arizona
- ▶ **Creating Stewards for the Future of the Sea of Cortez**  
October 15th, 2019 @ 6:00 pm  
Peggy Turk-Boyer, Director, Intercultural Center for the Study of Deserts and Oceans (CEDO)
- ▶ **Managing Marine Ecosystems For A Sustainable Future**  
November 19th, 2019 @ 6:00 pm  
Lynn Massey, Fishery Management Specialist, National Oceanic and Atmospheric Administration (NOAA)
- ▶ **Building Resilient Reefs: Biosphere 2 and Beyond**  
December 10th, 2019 @ 6:00 pm  
Katie Morgan, Manager of Marine Systems, Biosphere 2, University of Arizona

## ▶ Magpie's Gourmet Pizza ◀

605 N. 4th Ave  
Tucson, AZ

# SaddleBrooke Science Café



## Human Disease: Pathways to Cures

In this series, a team of researchers from the Department of Molecular and Cellular Biology will shed light on our current understanding of human biology and disease. Our speakers will cover topics on basic cell biology, genetic testing and mechanisms of age related disease. Insights to cures and healthy aging will be revealed.

- ▶ **Understanding Cancer: The Science Behind the Cures**  
October 10th, 2019 @ 6:30 pm  
Joyce Schroeder, Department Head, Molecular and Cellular Biology Professor, Molecular and Cellular Biology, and BIO5 Institute, University of Arizona
- ▶ **Come Fly with Us – A Fruit Fly to Human Approach**  
November 7th, 2019 @ 6:30 pm  
Daniela Zarnescu, Professor, Molecular and Cellular Biology, Neurobiology, Neurology, University of Arizona
- ▶ **Seeing the Light**  
December 5th, 2019 @ 6:30 pm  
Carol Dieckmann, Professor, Molecular and Cellular Biology, University of Arizona

**Save the Dates! Spring 2020 Series Part 2**  
**January 9/February 13/March 19**

- ▶ **SaddleBrooke Science Café can be seen live on YouTube:**  
<https://goo.gl/QnRNhX>

## ▶ Desert View Performing Arts Center ◀

39900 S. Clubhouse Drive  
Tucson, AZ