

Santa Cruz

RIVER

RESEARCH DAYS

MARCH 24–MARCH 25, 2022

Virtual Presentations and In-Person Tour

CULTURE AND ARCHAEOLOGY OF THE SANTA CRUZ RIVER

With an established human presence dating back over 12,000 years, the Santa Cruz River is home to the longest continuous agricultural presence in North America, is federally recognized as a National Heritage Area, and flows through Tucson, the first UNESCO City of Gastronomy in the United States of America. This two-day event will present the newest projects and research from a rich array of the academic, nonprofit, policy, arts, and business communities.

Real-time English–Spanish translation. Speakers and attendees will be able to participate in the event in their preferred language, allowing new opportunities for discovery, networking, and community-building.

This year's field trip will take place on Friday, March 25 at Mission Garden.



Photograph by Charlie Alolkoy

PURPOSE

Santa Cruz River Research Days was founded in 2009 with the goal of sharing of experiences and results across diverse institutions and disciplines. Our program is designed to:

- identify new research questions,
- expand the Santa Cruz River research community,
- foster awareness of each other's research and conservation efforts, and
- catalyze new collaborative projects.

2021 STEERING COMMITTEE

Michael Bogan, University of Arizona

Luke Cole, Sonoran Institute

Cannon Daughtrey, PaleoWest

Ben Lomeli, Friends of the Santa Cruz River

Tony Palmer, Tumacácori National Historical Park

Claire Zugmeyer, Sonoran Institute



SONORAN
INSTITUTE

THURSDAY / MARCH 24, 2022

morning schedule

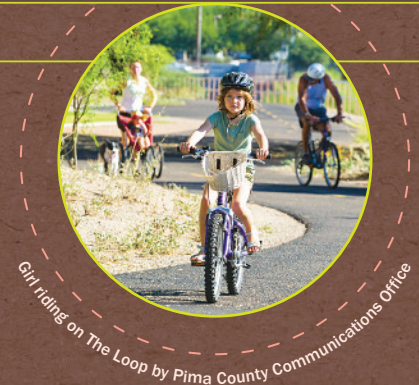
9:50 a.m.	ZOOM MEETING OPENS
10:00 a.m.	Welcome Luke Cole , Sonoran Institute <i>Research Days purpose and review</i>
10:10 a.m.	Mike Zellner , Sonoran Institute CEO <i>An introduction to Sonoran Institute</i>
10:20 a.m.	Luke Cole and Claire Zugmeyer , Sonoran Institute <i>A Guide to the Santa Cruz River</i>
10:40 a.m.	KEYNOTE Speaker Jesús García , Mission Garden <i>The ethnobotanical history of the Santa Cruz River</i>
11:40 a.m.	BREAK
11:50 a.m.	Cannon Daughtrey , PaleoWest <i>Connecting the past to our present: envisioning project plans that highlight hidden histories embedded in the Santa Cruz River corridor</i>
12:10 p.m.	Steve Anderson , Pima County Natural Resources Parks and Recreation <i>The Adamson-Catino Trail in Green Valley, Arizona</i>
12:30 p.m.	Pablo Rocha , School of Natural Resources and the Environment, University of Arizona <i>Bird community structure within four distinct reaches of the lower Santa Cruz River</i>
12:50 p.m.	BREAK



Spotted sandpiper (*Actitis macularia*) by Lois Manowitz, courtesy of Tucson Audubon

afternoon schedule

1:30 p.m.	Nikhil Nayee , Doris Duke Conservation Scholars Program Collaborative; School of Natural Resources and the Environment, University of Arizona <i>The effects of surface water availability and vegetation density on wildlife biodiversity in an urban riparian ecosystem</i>
1:50 p.m.	Michael Bogan , School of Natural Resources and the Environment, University of Arizona <i>Aquatic community assembly in the Santa Cruz River Heritage Project following flow restoration</i>
2:10 p.m.	Steven M. Mussmann , U.S. Fish and Wildlife Service, Southwestern Native Aquatic Resources and Recovery Center <i>Detection of a hybrid, clonal lineage of fish (<i>Poeciliopsis monacha-occidentalis</i>) in the Santa Cruz River</i>
2:30 p.m.	Liz Petterson , Arizona Land and Water Trust <i>Land and water protection at Sopori Creek and Farm</i>
2:50 p.m.	Lauren Monheim , Watershed Management Group <i>Flow365 Community Science Program: monitoring and understanding seasonal and perennial flows for Tucson's creeks and rivers</i>
3:10 p.m.	BREAK
3:30 p.m.	Mark Murphy , NV5 <i>Ecological connectivity of El Corazón Reach, Santa Cruz River, Pima County, AZ</i>
3:50 p.m.	Evan Canfield , Pima County Regional Flood Control District <i>Identifying potential improvements in the Corazon Reach of the Santa Cruz River</i>
4:10 p.m.	Kevin Payne , P.E., CFM, Kimley-Horn <i>Santa Cruz River Corazon Reach stream restoration</i>
4:30 p.m.	HAPPY HOUR: VIRTUAL CHAT WITH PRESENTERS
5:00 p.m.	End of Day 1



Girl riding on The Loop by Pima County Communications Office

FRIDAY / MARCH 25, 2022

all day schedule

9:50 a.m.	ZOOM MEETING OPENS
10:00 a.m.	Welcome Luke Cole , Sonoran Institute
10:05 a.m.	KEYNOTE Speaker Robert Ciaccio , Desert Archaeology, Inc. <i>Visual reconstructions along the Santa Cruz River</i>
11:00 a.m.	BREAK
11:10 a.m.	Lee Ann Woolery , Citizen Artist™ <i>The plight of the Kingfisher: travels through a riparian zone at Nogales Wash</i>
11:30 a.m.	Matt Robinson , D.C. Department of Energy & Environment <i>A Trash-Free Washington, D.C.: a case study for addressing aquatic trash</i>
11:50 a.m.	Luke Cole , Sonoran Institute <i>A three-year strategy to assess trash make-up, load, and distribution in the Santa Cruz River in Pima County, Arizona</i>
12:10 p.m.	Cheryl Mollohan , Bobcats in Tucson Project <i>Bobcats in Tucson: a study of bobcats living along the urban/wildlands interface in west Tucson</i>
12:30 p.m.	BREAK
2:00 p.m.	Mission Garden Tour 946 W Mission Ln, Tucson, AZ 85745
4:00 p.m.	Research Days concludes. Thank you for participating!



Gila Topminnow (*Poeciliopsis occidentalis*) by Claire Zugmeyer/Sonoran Institute



THANK YOU TO OUR
2022 SPONSORS

Photograph by Michael Bogan

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NATIONAL HERITAGE AREA

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Special thanks to Mission Garden for their support of
Santa Cruz River Research Days.

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SANTA CRUZ VALLEY
NATIONAL HERITAGE AREA



Growing Green

Tucson Electric Power's renewable energy resources are fueling our cleaner, greener grid – from southeast Tucson, where energy storage joins 314,000 new solar panels, to the New Mexico grasslands, where 62 giant wind turbines produce clean power.

These and other clean energy projects have more than doubled our use of wind and solar power over the last year, as we work to cut carbon emissions by 80 percent by 2035.



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Restore the future



PIMA COUNTY
FLOOD CONTROL



SONORAN
INSTITUTE

SONORAN INSTITUTE has worked since our founding in 1990 to realize our vision that the Santa Cruz River, from Mexico to Marana, is a living, flowing river and the foundation of our community health and prosperity.



Sonoran Institute



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