

Welcome

Riparian Book Club Hosts

Julie Ash, PE | Colorado Riparian Association (CRA) | Education & Outreach Committee Lead

Maria Brandt | Coalitions & Collaboratives (COCO) | Outreach & Development Director

Colin Barry, PG, CFM (Ayres) | Geomorphologist

Sarah Hinshaw Fancher, Ph.D | Fluvial Geomorphologiest







Welcome to Riparian Book Club 2025

Book Club Hosts:

Colorado Riparian Association (CRA)

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Coalitions & Collaboratives (COCO)



The Natural Flow Regime with Dr. LeRoy Poff

Friday 4/4/25 12p-1p MDT

Riparian Book Club helps bridge the gap between academic research on stream & wetland systems and applied restoration design in Colorado











Colorado Stream Restoration Network (CSRN)

- ca 2014-2020 launched after September 2013 Front Range flood
- CRA teamed with the City of Longmont
- Inspired by the Colorado Weed Network (CWN)
- Local forum to raise awareness, connect us, and advance the science and practice of stream restoration
- Created a space to share information and discuss important topics across the restoration community
- Half-day in-person workshops in Longmont
- 2020 included the River Ethic workshop & Urban Resiliency webinar

CSRN Riparian Book Club

- 2023 on Process-Based Restoration (PBR) papers and applications
- 2025 "the trifecta": Natural Flow Regime, Natural Sediment Regime, Natural Wood Regime









Riparian Book Club

COCO
COALITIONS & COLLABORATIVES, INC
COLLABORATIVES, INC

- Seeks to bridge the gap between academic research & applied restoration design
- By connecting our riparian community to pivotal scientific papers on stream & wetland systems to support our work
- Tailored to leaders of stream-wetland project planning & restoration design

April 2025 Book Club

The Natural Flow Regime with Dr. LeRoy Poff

Friday 4/4/25 12p-1p MDT

July 2025 Book Club

The Natural Sediment Regime with Dr. Sara Rathburn

Thursday 7/24/25 12p-1p MDT

November 2025 Book Club

The Natural Wood Regime with Dr. Ellen Wohl

Wednesday 11/5/25 12p-1p MDT













The Colorado Riparian Association was formed in 1989 by a small group of dreamers who believed that our riparian zones should not become sacrifice areas.

Our Mission:

To promote the conservation, restoration, and preservation of Colorado's riparian areas and wetlands.











GET INVOLVED WITH CRA!

Membership: www.coloradoriparian.org

Amy Scherman, Membership Chair: amy@flywater.com

2025 CRA Committees:

- MEMBERSHIP COMMITTEE
- CONFERENCE COMMITTEE
- SCHOLARSHIP COMMITTEE
- AWARDS COMMITTEE
- ENGAGEMENT & OUTREACH COMMITTEE (includes CSRN, website, blog)

Upcoming Events:

- April 24th (Thu) 5-8p CRA Spring Social Sanitas Brewing in Boulder - RIPARIAN JEOPARDY
- August 21st (Thu) 5-8p CRA Summer Social Fort Collins - TBD
- Oct 7th 9th Sustaining Colorado Watersheds (SCW) conference in Avon – SCW's 20th ANNIVERSARY
- CSRN Kids (ongoing)







CRA SPRING SOCIAL

Please join us for a free beverage, snacks and fun river trivia at the Sanitas Brewing company Come show your talents and play Riparian Jeopardy with CRA!

Thursday April 24 2025

5-8 pm

Sanitas Brewing- Boulder Taproom

3550 Frontier Avenue, Boulder, CO 80301

A fun educational and networking opportunity for CRA members and anyone who loves or works with rivers!

We look forward to meeting you!







CSRN Kids



- CRA's Watershed Model hits the road
- CRA members work with K-5 teachers to introduce students to concepts of:
 - * Watersheds
 - Rainfall-runoff
 - Flood risk reduction
 - * Watershed resilience
 - Careers in watershed restoration
- CRA also loans the model to watershed coalitions





Scholarships (Conference & Wor Fund scholarships for indiv COMMUNITY WILDFIRE communities, ensuring div MITIGATION BEST

PRACTICES TRAINING

The CWMBP national-level training is designed for current or future mitigation specialists, wildfire program leads and others who work with addresses the most pressi residents and their communities, to become more · Suggest & coordinate key efficient and effective at reducing wildfire risk.

Staffing (Conference & Worksho, REVOLVING Volunteer or staff to assist LOAN FUND registration & participant implementation for

 Offer expertise & manpov hands-on training is impac conservation collaborative Funding is designed to increase Donation Support (Conference & the efficiency and impact of Establish partnerships with existing investments

Support professional deve

Agenda Development (Conferer

· Partner with us in shaping

session topics to enhance

& businesses

emerging leaders in the fi



GOALS

Workforce

brought to you by Coalitions & Collaboratives

After the Flames is a comprehensive suite of services,

changing the landscape. Much of the recovery & restoration borne by state & local entities, & by residents & businesses

in 2019. This initiative offers a range of programs designe

PROGRAM CONTACT Maria Brandt | Maria Brandt@co-co.org



COMMUNITY NAVIGATORS

Community Navigators support community-based partners to access federal funding opportunities. create partnerships, and build capacity for wildfire risk mitigation and climate resilience

AIM GRANT

CCOCO offers a unique wildfire mitigation funding opportunity for a wide variety of capacity-building activities, including personnel, planning and wildfire risk reduction work on non-federal land.

CO-CO.ORG

After the Flames' signifies not just a strategic framework. This framewor our approach to post-disaster respo encompassing a holistic strategy for workforce development policy refinement. program innovation. and resource

provision

AFTER THE FLAMES

ASSISTANCE TEAM

The CMAT works closely with Incident Management Teams, the U.S. Forest Service or other land management agencies, and community residents and leaders to identify mitigation opportunities before fire impacts the community.

COLDFIRE SEQUESTRATION

Coldfire is a group of mycology researchers investigating the use of native fungi to heal and improve our forests with the forest ecology itself. Fungal-produced composts have been scientifically

proven to hold twice as much carbon. This

increase our carbon stores naturally and safely.







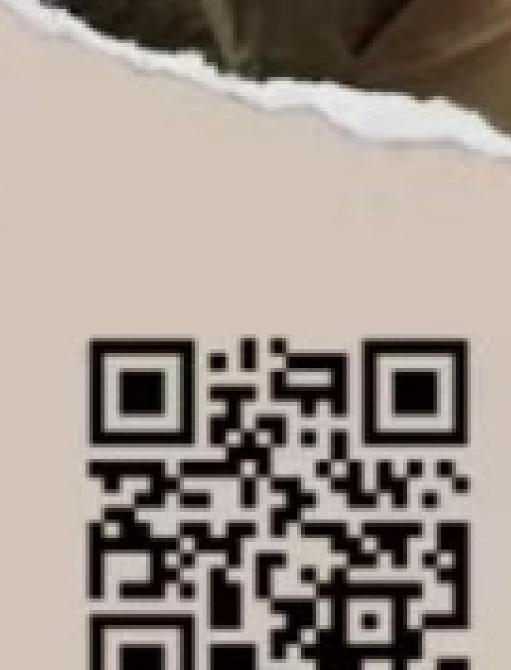
NEWSLETTER

DONATE

Here to mentor and support, or connect you to the appropriate resources.



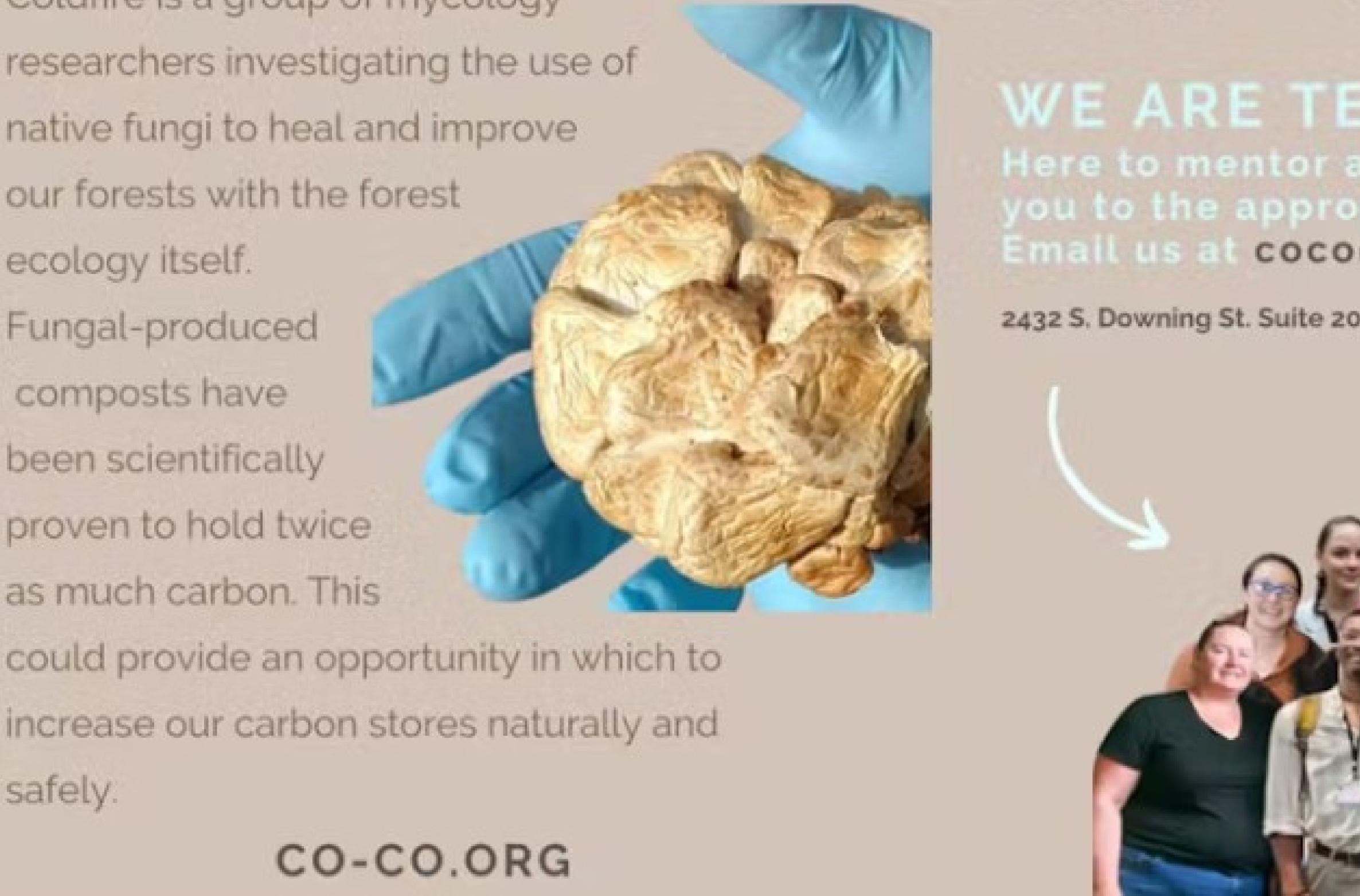






coco@co-co.org.









Using Mentimeter

- → Scan the QR code or enter menti.com into your computer's web browser
- → Enter the code given in the QR box or info bar above
- → Follow along and participate in the webinar
- → Polling is anonymous. Please be respectful and professional.
- → You'll be able to type in questions throughout the presentation.







We ask that you please...

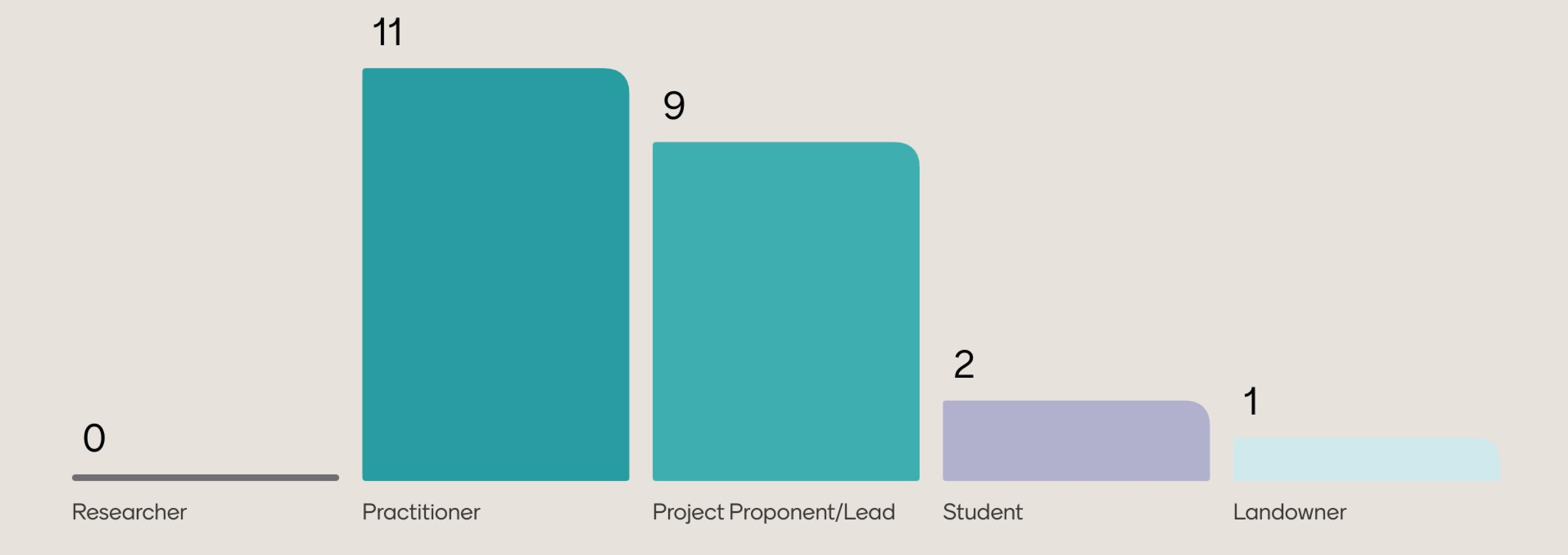
- → take care of yourself
- → practice confident humility the self-awareness that we all have wisdom and we will always have more to learn
- → listen actively and with an ear to understanding others' views
- → speak your truth using "I" statements
- avoid assumptions
- → commit to learning, not debating
- → embrace paradox







l'm a



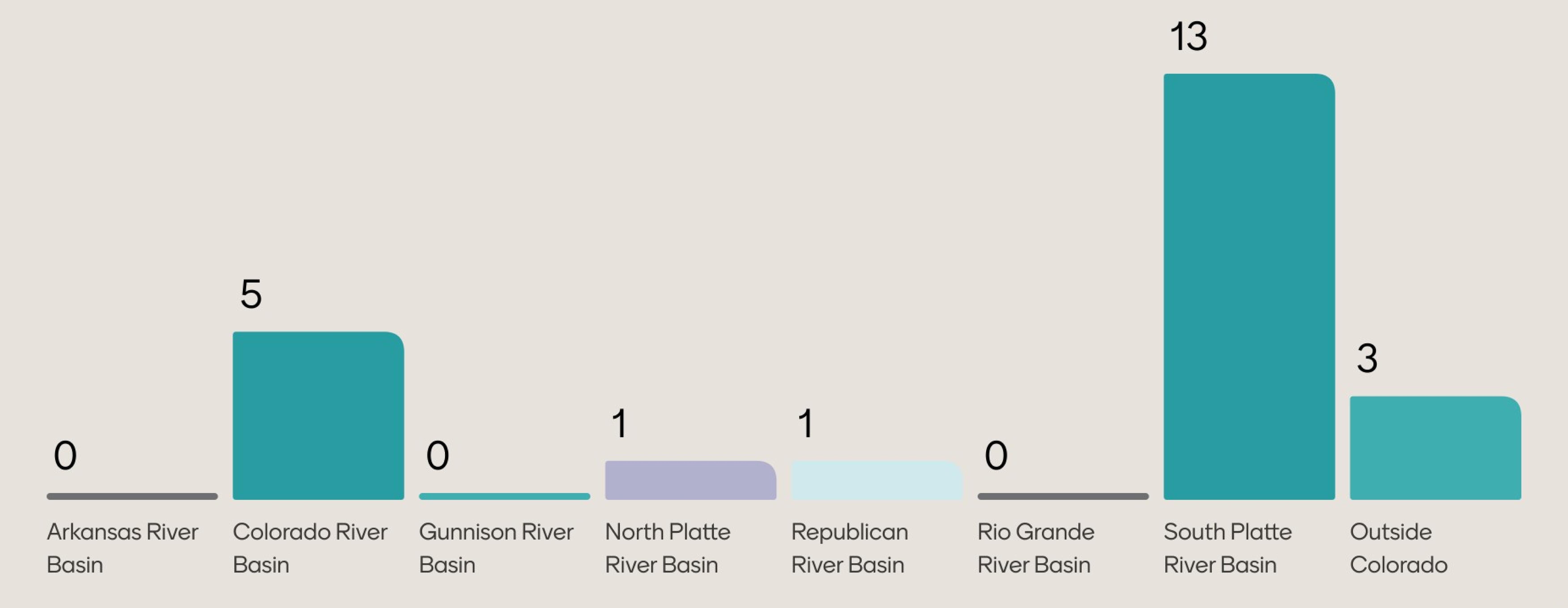








What geographic location are you joining us from?











What do you hope to get from this online workshop?

Knowledge!

I hope to learn!

Others insights and thoughts on the paper and how it related to our work!

Refresh on a paper I cite all the time!

learn more about river restoration

Great discussion about the best way to retore and advocate for the natural flow regime as a part of stream function!

Learn more about riparian ecology principles

Better understanding of flow regime and the impacts altered flow regimes can have









What do you hope to get from this online workshop?

Learn more about river ecosystems!

How to apply concepts to restoration.

Is the natural flow regime possible anymore

Relationship between natural flow regime and native fish needs.

Mimic natural flow regimes.







Dr. LeRoy Poff

Dr. Poff is a professor at Colorado State University in the Department of Biology and has a partial appointment as a Distinguished Professor at the University of Canberra in Australia. His research interests are broadly related to how habitat structure and environmental variability, especially hydrologic variability, affect ecological processes.

Dr. Poff is a foundational leader in the field of Environmental Flows and has contributed enormously (and globally) to the progression of science-based management of streams and rivers. He is the lead author of the landmark 1997 paper, The Natural Flow Regime, which defined a new paradigm for how we think about river flow and has been cited over 8800 times!





Riparian Book Club Discussion

After several decades since the paper was published, is there anything you would change about the message of the paper? What are some additional examples of where environmental/functional flows are applied?

In practice, what tools do you or your colleagues use to calculate environmental and functional flows?

At the time when the paper was published and beforehand, what was the general opinion of topics covered by The Natural Flow Regime? What was the initial reaction to the paper?

What hurdles do you encounter in Colorado relating to water rights and environmental/functional flows?

Your paper states and I agree, that restoration of the natural flow regime is likely most successful and least expensive way to restore stream processes, so why is it so hard to do? When tasked to recommend baseflows/peak flows for CO rivers, is it reasonable to look at past annual hydrographs and take an average? What if the only data available are postflow regulation?

How receptive have dam operators been to environmental/functional flows, and how does that vary by geography or other factors?









Riparian Book Club Discussion

Tools to maintain hyd. var.
include management of
instream flows and reservoir
management. Is there a
precedent for administration of
water rights (I.e. diversion
timing) to maintain hyd
variability?

Involved with trying to identify ecological/environmental values to "peaking flows", where would you start? A big question, apologize!









Thank You

A recording of this webinar will be available at CO-CO.ORG -> Resilient Communities -> Riparian Book Club

The Natural Sediment Regime, Thursday, July 24th, 2025, 12:00 PM - 1:00 PM MDT Wednesday, November 5th, 2025 12:00 PM - 1:00 PM MDT



