

Featuring:

Anthony Ambrose

Dr. Ambrose is a forest canopy biologist in the Department of Integrative Biology at UC Berkeley and at the California Academy of Sciences. He has been studying coast redwood and giant sequoia forests for 21 years, focused on understanding how tree structure and function change with size and age, forest canopy biodiversity, and effects of climate on tree physiological performance. He has also been a forest conservation advocate, forestry technician, US Peace Corps volunteer, and forest firefighter.

Mark Bridge

Mark started his training as an arborist in Switzerland in 1990. Today he works as a climber and trainer, and also as a developer with Treemagineers, developing and communicating about arborist equipment and techniques. Mark speaks all over the world on many aspects of tree care. He is the author of numerous articles which have been published in a wide range of industry publications. Mark was European tree climbing champion in 2003 and 2004, has chaired the European Tree Climbing Championship Operations Committee for a decade, was the chairperson for ITCC's Technical Advisory Committee, and the Head Technician for the International Tree Climbing Championship. He was the recipient of the Millard F. Blair Award for Exceptional Contributions to Practical Arboriculture in 2015.



6.0 CEUs Credits and MN Tree Inspector Recertification Available



Advancing to the Top

February 21, 2019

Rochester International Event Center

7333 Airport View Rd. SW • Rochester, MN 55902

Airport exit on Highway 63 South

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Mark Bridge



Register Today!

Register by January 1 to be eligible to win a climbing chainsaw. Other great door prizes will be available to all. Standard registration is due by February 15. To ensure the quality of the workshop, space is limited.

MSA members	\$105
Non-MSA members	\$125
Groups of 7 or more	\$95

Registration includes:

- Full program
- Continental breakfast
- Buffet lunch
- Afternoon refreshments

Everyone is encouraged to stay for the 4-6 pm social after the workshop to visit with the speakers and network. There will be a climber's corner with Nick Grebe and friends and Q&A time with Anthony Ambrose and Mark Bridge.

Register online by card or check payment at:

msa-live.org/events/raw

Or mail registration(s) with check to:

Minnesota Society of Arboriculture • PO Box 16321 • St. Paul, MN 55116

Name(s) _____
(please include all participants)

Company/Organization _____

City, State, ZIP _____

Phone _____ Email _____

For registration questions, contact msa@msa-live.org
For vendor questions, contact jay.maier@greencollarconsultant.com

A Green Future

When attending RAW, you're not only getting innovative information but you're creating opportunities for future caretakers of urban trees and supporting urban forestry. Funds raised go towards scholarships for arboriculture students.

- 7:45 : **Welcome and Introductions**
- 8:00 : **Natural and Cultural History of the Redwoods** (Ambrose)
This session will cover the basic evolutionary, biogeographic, and cultural history of the redwoods (coastal redwood and sequoia), intended to give us a baseline understanding of the two species. We will talk about the distribution and status of the species (e.g., old-growth v. second growth), forest community composition and structure, and interactions with and impacts from humans.
- 9:15 : **History of Tree Climbing Techniques** (Bridge)
This session will cover how tree climbing techniques have developed over the past centuries. We will explore why we climb the way we do today, giving us perspective that could potentially help us understand how tree climbing techniques could change in the future.
- 10:45 : **Structure and Function of Redwoods** (Ambrose)
Structure, function, and biodiversity of California redwood trees and forests. We will look at some of the fundamental biological, ecological, and physiological traits, processes, and factors influencing the performance, growth, survival, and distribution of Redwoods. We will discuss how this knowledge applies to our work here in the Midwest.
- 11:45 : **Lunch and Door Prizes**
- 12:45 : **Will It Hold?** (Bridge)
Arborists daily trust their lives to trees, ropes, knots and hardware. This presentation will look specifically at anchor points and friction hitches. What are the physics behind anchor points, and do concrete criteria exist that you can apply when choosing them? What hitches and line combinations have what issues, strengths and weaknesses and do criteria exist to help you decide which one(s) to use.
- 2:15 : **What Those Big Trees Can Teach Us** (Ambrose)
This will be a photo essay describing experiences and thoughts on working in the crowns of the tallest and largest trees on the planet. We'll touch on climbing methods and ethics, climbing as a way to connect with trees and nature, management, restoration and conservation considerations, and general musings on the past, present, and future of redwoods.
- 3:10 : **Resilience in Systems** (Bridge)
This discussion takes the abstract term "resilience" and applies it to our climbing and rigging systems, as well as in individuals or production teams we are part of. We will look practically how we can profit from resilience and how we can create it where it is lacking. We will be taking a deep, practical look at the building blocks of the various systems we work with.
- 4:00-6:00 : **MSA Social, Q&A with Anthony and Mark, and Climbers Corner** (Grebe & Friends)

Breaks with vendors will happen between sessions throughout the day.