

Save the Date!

Stay tuned to msa-live.org/events for more details regarding these and other MSA events as they become available.

Mar 17 : MSA Social at Shade Tree Short Course

Apr 17 : Northeast Pruning Workshop, Duluth

May 15-17 : MSA Tree Climbing Championship, St. Louis Park

Aug TBD : ISA Tree Risk Assessment Qualification and Requalification

Sept TBD : MSA Climbing Workshop

Sept 18-20 : North American Tree Climbing Championship, Twin Cities

Oct 8-9 : MSA Fall Conference, Duluth



MINNESOTA SOCIETY OF ARBORICULTURE'S

ROCHESTER ARBORIST

WORKSHOP

FUNDAMENTALS FOR THE MODERN ARBORIST

THURSDAY, FEBRUARY 20, 2020

ROCHESTER INTERNATIONAL EVENT CENTER



Featuring:



Richard Delaney

Richard Delaney is the founder and owner of RopeLab in Australia. RopeLab aims to promote a better understanding of the fundamental principles underpinning the craft of the rope technician. Richard's passion for understanding and teaching the Physics of Rigging is based on his experience and his prior professional life as a qualified engineer. Richard has worked professionally with ropes since 1992. Initially, this was as a multi-pitch rock-climbing instructor, but this moved quickly into specialized rescue instruction and rope access work.



Dr. Eric North

Eric is an Assistant Professor of Urban Forestry at the University of Nebraska. As an educator, he is fundamentally a communicator who helps complex biological systems make sense to the average person and help them find application for that knowledge. He is a believer that education, outreach, and community engagement is critical to greening our urban infrastructure. His research has included volunteer engagement in urban forestry and urban tree biometrics, and the use of tree rings to determine how trees grow through time in an urban environment.

- 7:45 : **Welcome and Introductions**
- 8:00 : **What Is It Good For? - Part 1** (Delaney)
"What is it good for?" is a really common phrase amongst arborists that likely means "How much can you lift on it all day, every day, until it fails an inspection?" There are so many variables and the answers we hear vary wildly. This session is an overview of the terminology we can use in assessing equipment for use in various arboriculture applications.
- 9:15 : **Taming the Wild (North)** (North)
Trees are in fact wild life and we as "experts" are expected to know how to tame them for the urban landscape. This session is a deep dive into the biology of trees: What controls tree size? How does a tree respond to wounding? Why do leaves change colors in the fall and when will it happen? These and other complex biological questions will be answered.
- 10:45 : **What Is It Good For? - Part 2** (Delaney)
What is it good for - Part 2 will cover the fatigue limits of different materials and elastic vs plastic deformation. We will also look at how to do equipment inspections where you can know what to look for to identify the signs of failure in your equipment.
- 11:45 : **Lunch and Door Prizes**
- 1:00 : **What the Friction?** (Delaney)
Ropes tend to make friction. It's a fact. But did you know that different ropes make different friction? In this session we will look at different ropes and the impact the rope you choose can make on the system you are using, whether simple rigging systems, hauling systems, descenders, or rope-on-rope climbing systems.
- 2:15 : **Photosynthesis: Why Does It Matter?** (North)
Building on the previous session with Dr. North, there is one function that arborists really should know better: Photosynthesis. Understanding it in depth will help us better diagnose tree issues, prune trees, and use PHC services more effectively
- 3:10 : **Testing, Standards, and Training** (Delaney)
The behind-the-scenes work we do to keep our industry safe is critical. We test: experimenting and interpreting results. We develop standards: but is there room for Fit-for-task use of non-standard equipment and techniques? We train: but are we only trying to pass an assessment?
- 4:00-6:00 : **MSA Social and Climbers Corner with Nick Grebe and Scott Ferris**

Breaks with vendors will happen between sessions throughout the day.