

APSC-349 Applied Science Cooperative Education

Dustin Foty, Dani Asper
at Rainbow Treecare

with Dmitry Kadnikov, Program Director of the B.S. in Applied Science at UW-Stout

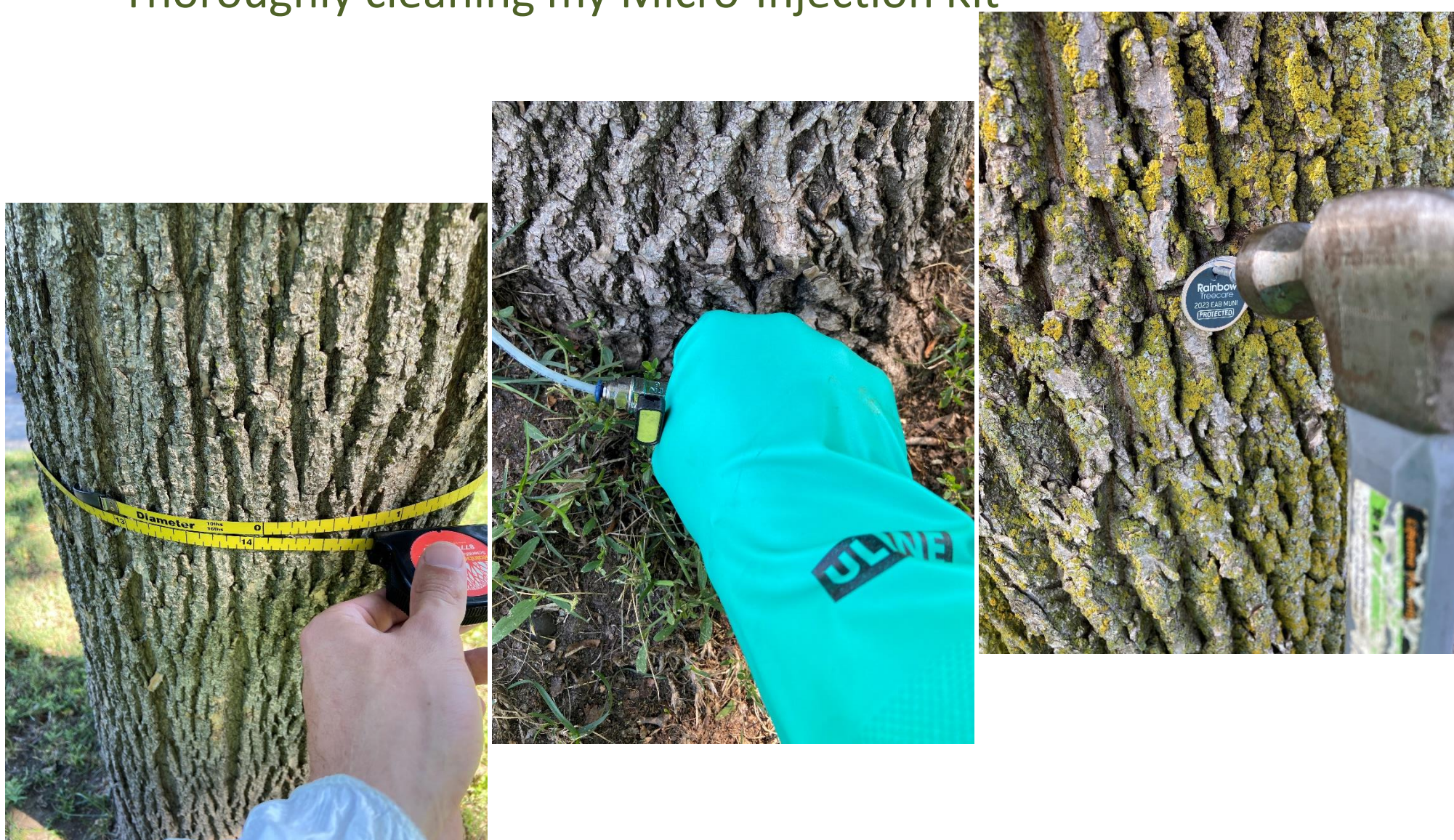
Overview of the company/organization

- Established in 1976 with their first treatment of Dutch Elm Disease
- For the past 40 years, their Eco science team has partnered with leading universities to create effective treatments to manage pests and diseases and develops tools to improve treatment practices
- One of the leading companies in Plant Health Care research
- Main Business: Micro and Macro pesticide injection treatments, pesticide spray treatment, & prune care
- Emerald Ash Borer (EAB) Micro-Injection treatment using product called ArborMectin



Duties

- In charge of a fleet vehicle, making sure the lights, fluid levels, and brakes are safe for driving.
- Communicating with other technicians to see where we would be treating
- Professionally communicating with clients and informing them about EAB treatment.
- Treating Ash Trees via Micro-Injection for EAB
- Tagging treated Ash trees
- Measuring the Diameter Breast Height (DBH) of an Ash tree
- Thoroughly cleaning my Micro-Injection Kit



Science at Work

- Used Rainbow's Eco science created tools and liquid product to effectively treat Ash trees for EAB
- Used scientific measurements to see the level of infection on individual trees
- Used mathematical skills to determine the correct amount of product used when treating a specific tree.

UW-Stout Skills Utilized

- Used Chemistry acquired lab skills: accurate graduated cylinder measurements, knowledge of use of safety equipment
- Communication skills acquired from English classes
- Ability to communicate and understand scientific terms via Scientific Communication
- Knowledgeable on the anatomy & processes of plants/trees

Acquired and Refined Skills

- Acquired professional communication skills
- Acquired knowledge of pesticide application and treatment processes
- Refined knowledge of biology terms and processes
- Refined driving and navigation skills

Advice to the Next Class

- Be prepared for the time commitment and start your experience with a hard-working mindset
- Learn your company
- Try to leave an impact on the company
- Be professional to your coworkers, supervisors, and/or clients

Future Outlook

- I could see myself working for Rainbow Treecare if I decided not to pursue physical therapy. However, I would want to work for their Eco science division instead because that is more related to biology
- This experience has not impacted my future career goals but has made me more passionate about the environment

Acknowledgements

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- I would especially like to thank my supervisor Dani Asper for welcoming me into the Rainbow Treecare community and for giving me insightful knowledge on pesticide treatment and trees. This will help me in the future if I decide to pursue a career in environmental science.



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