

SCAN TO
UPLOAD YOUR
PRESENTATION



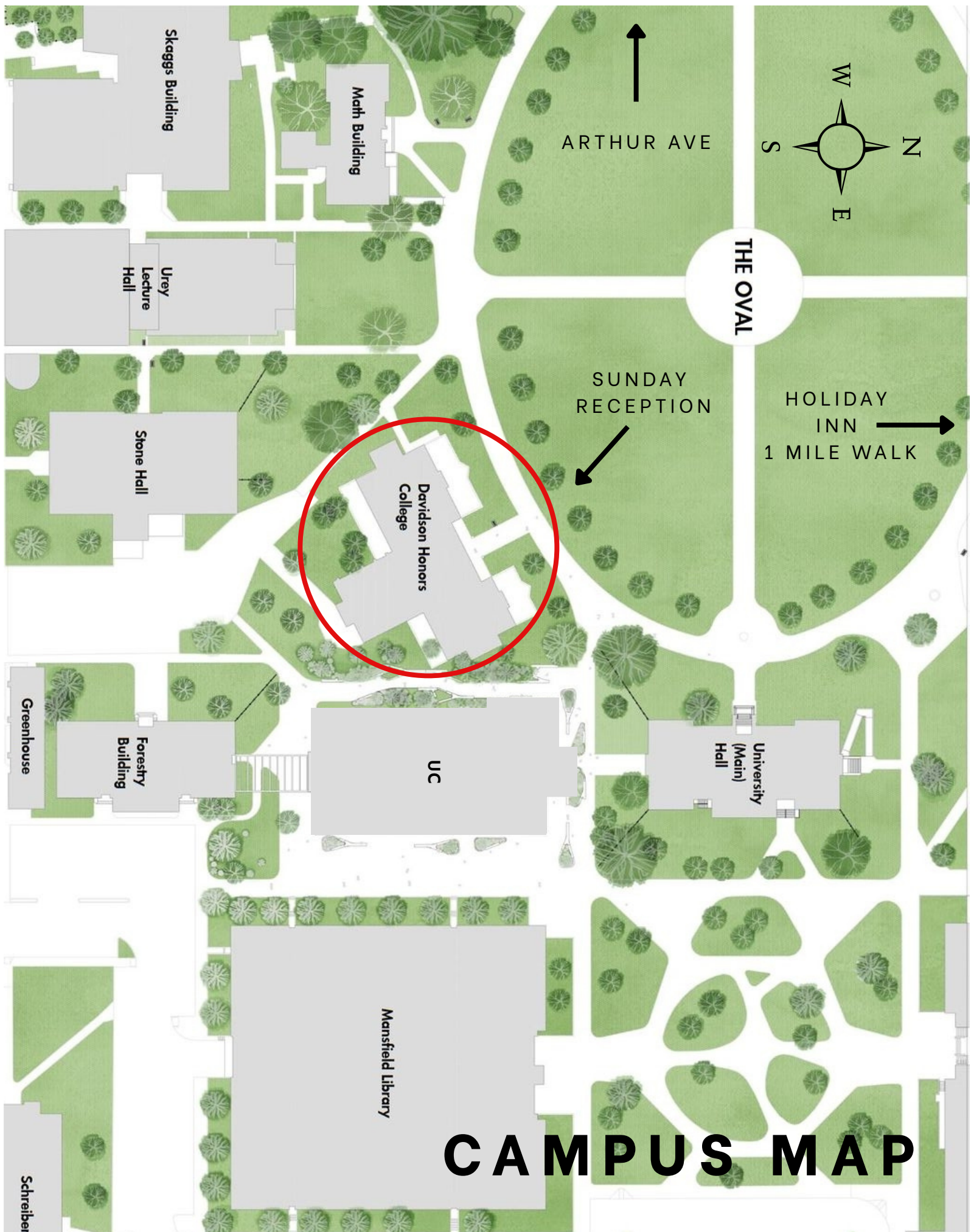
Or search
<https://shorturl.at/rga1V>

PASSWORD : COFE26

ACCESS FULL
ABSTRACT DOCUMENT
BY SCANNING

Or search
<https://cofe.org/draft-agenda-2026-cofe/>





Skaggs Building

Math Building

Urey
Lecture
Hall

Stone Hall

Greenhouse

Forestry
Building

UC

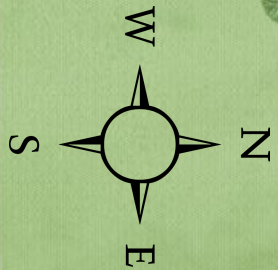
Mansfield Library

University
(Main)
Hall

Davidson Honors
College

THE OVAL

ARTHUR AVE



SUNDAY
RECEPTION

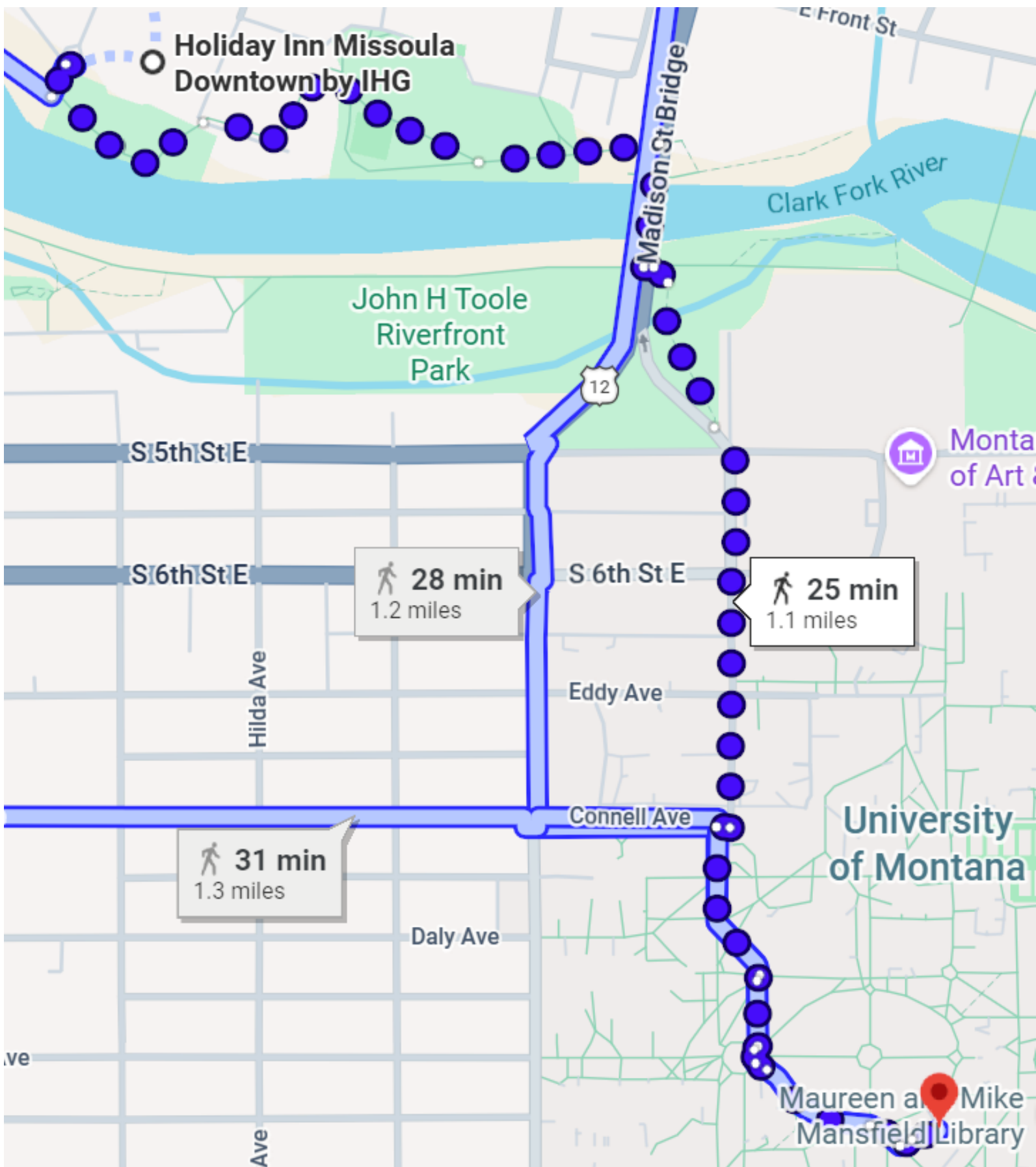
HOLIDAY
INN
1 MILE WALK

CAMPUS MAP

GETTING TO SUNDAY NIGHT'S RECEPTION

THE WELCOME DINNER IS AN EASY AND SCENIC ~1 MILE WALK FROM THE HOTEL. SEE THE MAP FOR STAYING ALMOST ENTIRELY ON WALKING PATHS TO GET TO CAMPUS. IF YOU ARE STAYING AT THE HOTEL AND WANT TO TAKE A SHUTTLE, YOU CAN CALL THE HOLIDAY INN FRONT DESK AND REQUEST A RIDE. THEY DO PRIORITIZE AIRPORT SHUTTLES, SO PLEASE PLAN AHEAD.

(406) 721-8550



WHERE TO EAT
IN MISSOULA



AUGUST CALENDAR
OF EVENTS



COFE 2026 Annual Meeting — Missoula, Montana | August 2-5, 2026

16.5 Continuing Forestry Education Credits from the Society of American Foresters are available for this conference

Conference registration check in will be available from 3-5 PM at the Holiday Inn and from 6-9 PM at the Welcome Reception on UM Campus

**** Denotes a student presentation***

Day 1: Sunday, August 2

Time	Event
4:00 - 5:30 PM	COFE Executive Committee Meeting — Forestry 206, UM Campus
6:00 - 9:00 PM	Welcome Reception — Taco Dinner Hosted by Headwaters Tech Hub , Davidson Honors College Patio, UM Campus

Day 2: Monday, August 3

8:30 - 10:00 AM — Plenary Session I

Time	Talk
8:30-8:40	Welcome to COFE 2026 <i>Beth Dodson</i>
8:40-9:10	Welcome to the University of Montana <i>Libby Metcalf</i>
9:10-9:20	Overview of Conference & Field Tour <i>Beth Dodson</i>
9:20-9:40	<u>State of the Forestry and Wood Products Sectors in Montana</u> * <i>Carmen Murrill</i>
9:40-10:00	<u>Frictionless Forestry: Why Applied Research Struggles to Translate into Practice</u> <i>Steve Bick</i>

10:10 - 10:30 AM — Break (Hosted by [BurnBot](#))

10:00 – 10:10 | *Ian Moore Welcome, Sponsorship by BurnBot*

10:30 AM - 12:00 PM — Plenary Session II: Overview of Conference Topics

Time	Talk
10:30-10:50	<u>Optimization and AI: What Actually Works and What Are the Trends in Forest Operations Planning and Engineering</u> <i>René Zamora-Cristales</i>
10:50-11:10	<u>Management of Forest Roads in the Province of Quebec: A Review of Challenges and Solutions</u> <i>Shuva Gautam</i>
11:10-11:30	<u>What Drives Feller-Buncher Productivity? A Meta-Analysis, Key Factors Identification, and a Predictive Model</u> <i>Rafael O. Brown, Mathew F. Smidt, Nathaniel M. Anderson</i>
11:30-11:50	<u>Everything Everywhere All at Once — Landscape-Scale Cross-Boundary Forest Operations</u> <i>Nathaniel Anderson</i>

12:00 – 1:30 PM — Harvest Lunch with Chicken & Salad Bar

1:30 - 3:00 PM — Concurrent Sessions

Time	A1: Interactions Between Wood Properties and Operations <i>Moderator - Joe Conrad</i>	A2: Forest Management Systems <i>Moderator - Ben Spong</i>
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1:30 – 1:50	<u>Automated Deep Learning-Based Log Cross-Section Ring Characterization in Ponderosa Pine *</u> <i>Tzu-I Liao, Woodam Chung, Laurence Schimleck</i>	<u>Effects on Harvesting Costs and Landowner Revenues When Introducing Shelterwood Management</u> <i>Lars Eliasson, Anders Rowell</i>
1:50-2:10	<u>Occlusion Rate and Defect Core Determination in Pruned Loblolly for Clear Wood Production *</u> <i>Paityn Matecki, Daniel DeArmond</i>	<u>Timber Harvesting Challenges on Small Family Forests in Northern Minnesota, USA</u> <i>Charlie Blinn, William Sauerer</i>
2:10-2:30	<u>Relating Log Cross-Section Ring Attributes to Lumber Mechanical Properties for Effective On-Site Log Sorting *</u> <i>Tzu-I Liao, Woodam Chung, Michelle Jayawickrama, Lech Muszyński, Laurence Schimleck</i>	<u>Understanding Virginia's Family Woodland Owners Management Decisions *</u> <i>Emma D. Busteed, Scott M. Barrett, Jennifer Gagnon, Shane Furze</i>
2:30-2:50	<u>On-Site Prediction of Knot Characteristics from Harvester-Derived Stem Diameter Profiles *</u> <i>Taehyung Kim, Woodam Chung, Lucas Wells</i>	<u>An Evaluation of Pruning Time Across Thinning Treatments in a 15-Year-Old Loblolly Pine Plantation</u> <i>Daniel DeArmond, Kevin Boston, Segar Chhetri, Matthew Pelkki</i>
2:50-3:00	Q&A with all presenters	Q&A with all presenters

3:00 - 3:30 PM — Break

3:30 – 5:00 PM — Concurrent Sessions

Time	B1: Volume Estimation <i>Moderator - Han-Sup Han</i>	B2: Steep Slope & Tethered Systems <i>Moderator - Charlie Blinn</i>
3:30-3:50	<u>Developing Supply Curves for Woody Biomass in Northwestern California Based on Harvest and Transportation Costs *</u> <i>Jonathan Guczek, Hunter Harrill, Natascia Magagnotti, Raffaele Spinelli, Alan Tepley</i>	<u>Productivity Analysis of Single-Stem Helicopter Logging Operations in Coastal British Columbia</u> <i>Omar Mologni, Rosalia Jaffray, Quinn Kenny, Gregory Paradis, Dominik Roeser</i>
3:50-4:10	<u>From Stem Scan to Stand Estimate: A Smartphone-Based Timber Cruising Application *</u> <i>Heechan Jeong, Heesung Woo, Taejin Kim, Jiyeon Ryu</i>	<u>Production Studies of Steep Slope Harvesting Machines in Northern California *</u> <i>Bridger Paradis, Hunter Harrill, Jeffrey Kane, Han-Sup Han</i>
4:10-4:30	<u>ForestStruct3D: A Newly Developed AI-Based Tool for Forest LiDAR Analysis with an Embedded Tree Segmentation Model *</u> <i>Jiyeon Ryu et al, Heesung Woo, Taejin Kim, Heechan Jeong</i>	<u>Winch-Assist Harvesting in Appalachia: Balancing Soil Impacts and Logging Productivity *</u> <i>Dylan Lang, Ben Spong, Curt Hassler, Mathew Smidt</i>
4:30-4:50	<u>Calculating the Volume of Roundwood Piles Under Cranes Utilizing UAS in the Southern U. S. *</u> <i>Prakash Ojha, Marissa 'Jo' Daniel, Richard Cristan, Brian Via, Lana Narine</i>	<u>Productivity Analysis of Shotgun Cable Yarding</u> <i>Hunter Harrill</i>
4:50-5:00	Q&A with all presenters	Q&A with all presenters

Evening — Dinner on Own

Day 3: Tuesday, August 4

8:30 - 10:00 AM — Concurrent Sessions

Time	C1: Slash Treatment & Site Preparation <i>Moderator - Hunter Harrill</i>	C2: Environmental Impacts & BMPs <i>Moderator - Mark Vessar</i>
8:30-8:50	<u>Operational Efficiency and Ecological Effects of Forestry Mulching in Alabama *</u> <i>Hannah Mayo</i>	<u>Evaluating the Effectiveness of Georgia's Forestry Stream Crossing BMPs for Current and Future Conditions *</u> <i>Emma Merritt, M. Chad Bolding, Joseph L. Conrad IV, Timothy R. Miller, Brent S. Hawks</i>
8:50-9:10	<u>Analyzing the Productivity and Cost of Slash Management from a Cut-to-Length Harvesting System in a Southwestern Ponderosa Pine Forest</u> <i>Tucker Herbert, Rafael Brown, Jeffrey Halbrook, Nate Anderson, Han-Sup Han</i>	<u>Categorizing Rutting Following Thinning in Loblolly Pine Stands in the U.S. South *</u> <i>J. Tyler Patton, Joseph L. Conrad IV, Bronson P. Bullock, Stephen M. Kinane. Chad Bolding</i>

9:10-9:30	<u>Rethinking Slash Disposal: Productivity and Cost of Carbonizing Logging Residues in British Columbia *</u> <i>Adelin Nicorescu, Omar Mologni, Dominik Roeser</i>	<u>Evaluating Plantation Performance in Restoring Coal-Mined Lands through Soil Erosion and Ground Cover Analysis *</u> <i>Ashmita Bhandari, Manisha Parajuli</i>
9:30-9:50	<u>Operational Feasibility of Heavy-Lift Drone-Assisted Seedling Delivery for Steep-Slope Reforestation</u> <i>Taejin Kim, Heesung Woo, Heechan Jeong, Jiyeon Ryu, Jeong Ho Kim</i>	<u>Spatial Patterns of Residual Tree Damage Across Trail Designs and Harvest Intensities in Mechanized CTL Harvesting</u> <i>Bibek Bhandari, Shuva H. Gautam</i>
9:50-10:00	Q&A with all presenters	Q&A with all presenters

10:00 - 10:30 AM — Break

10:30 AM - 12:00 PM — Concurrent Sessions

Time	D1: Advanced Technologies <i>Moderator - Eric Labelle</i>	D2: Supply Chains <i>Moderator - Chad Bolding</i>
10:30-10:50	<u>Real-Time Implementation of Digital Forest Restoration Prescriptions Using Computer Vision and LiDAR Stem Maps</u> <i>Woodam Chung, Lucas Wells, Lingbo Dong, Heesung Woo</i>	<u>Assessment of the Harvesting Capacity for Conducting Forest Fuel Reduction Treatments in Idaho and Oregon *</u> <i>Jessie McCullough, M. Chad Bolding, Joseph L. Conrad IV, Mathew Smidt, Jaana Korhonen, Timothy R. Miller</i>

10:50-11:10	<u>Satellite Teleoperation for Resilient Remote Forestry Delimbing Operations in Canada</u> <i>Maxime Vaidis, Eric R. Labelle, Philippe Giguère</i>	<u>Advanced Supply Chain Engineering to Support Fuel Treatment and Forest Restoration *</u> <i>Jinghan Zhao, Jingxin Wang, Nate Anderson</i>
11:10-11:30	<u>Application of Advanced Technologies in Forestry: Opportunities, Operational Integration, and Practical Challenges</u> <i>Heesung Woo, Taejin Kim, Heechan Jeong, Jiyeon Ryu, Suhas V. Sumukh, Jacob A. Webb, Sun Eun Choi</i>	<u>Assessing Fine Particulate Matter Emissions and their Regulatory Revisions Impact Analysis on the Forest Industry of Alabama *</u> <i>Manisha Subedi, Marissa "Jo" Daniel, Richard Cristan, Lana Narine, Manisha Parajul</i>
11:30-11:50		<u>Innovation in Timber Harvesting in the U.S. South: The Opportunity for Cut-to-Length in Changing Timber Markets*</u> <i>Timothy R. Miller, M. Chad Bolding, Joseph L. Conrad IV Pete Bettinger, Bruno K. da Silva, Raffaele Spinelli</i>
11:50-12:00	Q&A with all presenters	Q&A with all presenters

12:00 - 2:00 PM — Sandwich & Salad Lunch and COFE Business Meeting

2:00 - 3:30 PM — Concurrent Sessions

Time	E1: Ground-Based Harvesting Systems <i>Moderator - Nate Anderson</i>	E2: Improving Safety of Forest Operations <i>Moderator - Scott Barret</i>
2:00-2:20	<u>4D Simulation of Cut-To-Length Harvesting Using Discrete-Event Simulation and Building Information Modeling *</u> <i>Murat Ozmen, Woodam Chung</i>	<u>Further "Extensions" of Synthetic Rope Technology</u> <i>John Garland, Steve Pilkerton, John Sessions, David O'Neill, Mike Spear, Rob Keefe, Ryer Becker, Eloise Zimbelman, Hunter Harrill, Eric Parazoo, Michael Griffin</i>
2:20-2:40	<u>Evaluating the Productivity and Cost of Salvage Logging with Whole-Tree Harvesting Systems Following Hurricane Helene in South Georgia, USA *</u> <i>Onyinye P. Choko, Joseph L. Conrad IV, Puneet Dwivedi, Pete Bettinger, Chad Bolding, Bruno K. Da Silva</i>	<u>Use of the Android Team Awareness Kit (ATAK) to Increase Situational Awareness and Improve Logging Safety</u> <i>Robert F. Keefe, Eloise G. Zimbelman</i>
2:40-3:00	<u>SkidPC Online: A Web-Based Modernization of a Ground-Based Timber Harvesting Decision Support Tool</u> <i>Ben Spong</i>	<u>Reducing Injury Risk in Timber Felling: A Multi-Phase Evaluation of Exoskeletons</u> <i>Allen, Mina Salehi, Seobin Choi, Kiana Kia, Woodam Chung, Jeong Ho Kim</i>

3:00-3:20	<u>Long-Term Economic Impacts of Bladed Skid Trails Compared to Competing Systems in Appalachia</u> <i>M. Berry, R. Chewning, S.M. Barrett</i>	<u>Real-time Estimates of Logging Equipment Carbon Emissions in the Southeastern United States</u> <i>Abubakar Tahiru, Marissa "Jo" Daniel, Richard Cristan</i>
3:20-3:30	Q&A with all presenters	Q&A with all presenters

3:30 - 4:00 PM — Break

4:00 - 5:00 PM — Concurrent Sessions

Time	F1: Data Science to Improve Forest Operations <i>Moderator - Jeff Halbrook</i>	F2: Transportation <i>Moderator - Jo Daniel</i>
4:00-4:20	<u>IMU-Based Activity Recognition for Forestry Loaders: Toward Automated Detection *</u> <i>Adelin Nicorescu, Omar Mologni, Dominik Roeser</i>	<u>Development and Validation of GATES: A Tool to Estimate Log Truck Costs in the US South</u> <i>Jack Derochers, Joseph L. Conrad IV, M. Chad Bolding, Mathew Smidt, Bruno K. Da Silva</i>
4:20-4:40	<u>Optimization of Harvest Unit Layout for Tethered Cut-To-Length Thinning Operations *</u> <i>Murat Ozmen, Woodam Chung</i>	<u>Are Trees Heavier Today? Re-Evaluating 1974 Transportation Weight Limits in the Context of Modern Forest Allometry</u> <i>Mandira Pokharel, Marissa "Jo" Daniel, James Chappell, Abubakar Tahiru</i>

4:40-5:00	<u>Machine learning-based forecasting of felling productivity in Western Canada</u> <i>Stephanie Bron, Omar Mologni, Dominik Roeser</i>	<u>Developing an Optimized Trucking Model to Improve Timber Transportation Efficiency, Cost, and Capacity in the US South*</u> <i>Bandana Subedi, Joseph L. Conrad IV, Miachel Chad Bolding, Pete Bettinger, Damon Hartley</i>
5:00-5:10	Q&A with all presenters	Q&A with all presenters

5:45 PM — Conference Dinner and Awards Banquet

National Museum of Forest Service History

Time	Event
5:45	Bus departs conference hotel
6:00 – 7:00	Cocktail hour and museum perusal
7:00-8:00	Dinner
8:00-8:30	Awards
8:45 PM	Bus departs, return to hotel by 9

Day 4: Wednesday, August 5

8:00 AM - 5:00 PM — Field Tour of Active Forest Operations,
Featuring Public Lands Management

Location here

Time	Event
8:00	Bus departs conference hotel
8:00 - 5:00	details TBD
5:00	Bus returns to hotel by 5