

The International Mountain Logging and 11th Pacific Northwest Skyline
Symposium 2001 - A Forest Engineering Odyssey

The theme for the symposium "2001 - A Forest Engineering Odyssey" reflects the origins of, and changes forest engineering as a profession has undergone through time from its beginning in the late 19th and beginning 20th century to today. The changes from a purely extractive activity and profession towards one that recognizes the value and critical contribution forested ecosystems make to the quality of life is nothing short of a true odyssey.

Symposium Agenda

MONDAY, DECEMBER 10

Registration and Continental Breakfast	8:00 - 9:30
Session 1 Welcome and Keynote Addresses	9:30 - 12:00
Bruce Bare, Acting Dean, College of Forest Resources, University of Washington Peter Schiess, Symposium Chair, University of Washington Jack Zaccardo, Local Historian	
break	10:45-11:00
Doug Sutherland, Commissioner of Public Lands, State of Washington E. Vaughn Stokes, Director of Engineering, USDA Forest Service, Washington D.C.	
Lunch	12:00 - 1:30
Session 2 Worker Safety	1:30 - 5:00
Moderator: Richard Fenske, Pacific Northwest Agricultural Safety and Health Center	
Occupational Research Agenda for Northwest Forestlands, <i>Richard Fenske, University of Washington</i>	
Helicopter Logging in Alaska – Surveillance and Prevention of Crashes, <i>Jan Manwaring, CDC/NIOSH</i>	
Tasked-Based Assessment of Occupational Vibration and Noise Exposures in Forestry Workers, <i>Michael Yost, University of Washington</i>	
break	3:00 - 3:30
Changes in Logging Injury Rates Associated With Use of Feller-bunchers in West Virginia, <i>Jennifer Bell, National Institute for Occupational Safety and Health</i>	
Prospects for Using Synthetic Rope in Logging: First Look and Future Research, <i>Stephen J. Pilkerton, Oregon State University</i>	
Productivity Improvements through Professional Training in Appalachian Cable Logging Operations, <i>Hylton Haynes, Virginia Tech</i>	
Reception & Poster Session	5:00 – 6:30

TUESDAY, DECEMBER 11

Continental Breakfast 7:00 - 8:00

Session 3 Resource Management and Habitat Protection 8:00 - 12:00
Moderator: William Elliot, USFS Rocky Mtn. Research Station

Developing A Decision Support System to Improve Transportation Planning in Landslide Prone Terrain, *Michael Wing, Oregon State University*

Minimizing Road Construction Plus Forwarding Costs Under A Maximum Soil Disturbance Constraint, *Abdullah E. Akay, Oregon State University*

Incorporating Landslide Probability into Operations Planning, *Finn Krogstad, University of Washington*

Comparing Erosion Risks from Forest Operations to WildFire, *William J. Elliot, USDA Forest Service*

break 10:00-10:30

Thinning, Fuel Manipulation And Prescribed Fire In Dry Forest Types, *Bob Rich, Montana Department of Natural Resources and Conservation*

Snip & Skid: Partial Cut Logging to Control Mountain Pine Beetle Infestations in British Columbia, *Han-Sup Han, University of Idaho*

Integrating Spatial Aquatic Habitat Goals Into a Planning Process Considering Harvesting System And Road Management Strategies, *Pete Bettinger, Oregon State University*

Lunch 12:00 - 1:30

Session 4 Transportation 1:30 - 5:30
Moderator: Marv Clark, Forest Engineering Research Institute of Canada

Stability Analysis of Timber Cribbed Road Fill on a Steep Slope, *Shelley Higman, Weyerhaeuser*

Tunneling and Bridging to Success: Innovative Forest Road Design and Construction in Rugged Terrain on British Columbia's West Coast, *J. Walter Cowlard, Weyerhaeuser BC Coastal Group*

Evaluation of Stump Strength for Temporary Forest Road Design, *Séamus Parker, FERIC*

break 3:00 - 3:30

Basic Geosynthetics: A Guide to Best Practices in Forest Engineering, *Jonathan Fannin, University of British Columbia*

Extending Hauling Operations on Thawing Roads by Using Road-Friendly Technologies, *Colin Blair, FERIC*

Using Reduced Tire Pressure for Improved Gradeability – A Proof of Concept Trial, *Brian Bulley, FERIC*

The Current State Of Engineering Geology, Slope Stability and Harvest Unit Plans, *Jeffrey R. Laird, Shannon & Wilson*

Adjourn 5:30

WEDNESDAY, DECEMBER 12

- Continental Breakfast 7:00 - 8:00
- Session 5 Operations Planning and Analysis 8:00 - 12:00
Moderator: John Sessions, Professor, Oregon State University
- PEGGER & ROADVIEW - A New GIS Tool To Assist Engineers In Operations Planning,
Luke Rogers, University of Washington
The FAO Programme on Forest Harvesting, Engineering and Environment, *Rudolf Heinrich, United Nations FAO*
PLANEX: A System to Identify Landing Locations and Access, *Rafael Epstein, University of Chile*
NETWORK 2001 – Transportation Planning Under Multiple Objectives, *Woodam Chung, Oregon State University*
- break 10:00-10:30
- Improving Cross Drain Culvert Spacing with GIS Interactive Design Tool, *Florentiu Damian, University of Washington*
Techniques For Preparing Alternative Road Access Policies For Steep And Mountainous Terrain, *Weikko Jaross, University of Washington & Washington Department of Natural Resources*
Forest Road Reconstruction or Relocation? Cameron North Road Improvement Project, *Lawson W. Starnes, Oregon State University*
- Lunch 12:00 - 1:30
- Session 6 Trends in Mechanization 1:30 - 3:00
Moderator: Bob Rummer, Forest Operations Research, USFS
- Forecasting Future Global Timber Harvesting Requirements Using the Delphi Technique, *Michal Brink, Oregon State University*
Mechanized Harvesting Systems in Permanent Stands and Technology, *Thomas Wehner, Forest Research Institute of Baden-Wuerttemberg*
A New Approach To Derive A Productivity Model for the Harvester “Valmet 911 Snake”, *Karl Stampfer, Vienna University of Agricultural Sciences*
- break 3:00 – 3:30
- Session 7 Harvest System Technology 3:30 - 5:00
Moderator: Dennis Dykstra, Blue Ox Forestry and IUFRO
- The Future of Cable Harvesting in the Pacific Northwest, *Dex Olund, Madill Equipment Canada*
Perspectives on Central European Cable Yarding Systems, *Hans Rudolph Heinemann, Swiss Federal Institute of Technology*
Overview of Operational Aspects of Standing Stem Helicopter Harvesting, *Don Cleaver, Weyerhaeuser Canada Ltd.*
- Closing Remarks and Adjourn 5:00