



Creating forest sector solutions

# Harvest, transport, grow, sustain, improve



**FERIC** develops and helps implement innovative and safe solutions covering the vast range of engineering, human, operational and environmental aspects of forestry and wildland fire operations.



## Relevant, timely R&D programs

FERIC'S research program is designed in consultation with members and partners. It focuses on harvesting, transportation and roads, silvicultural operations, wildland fire operations, and precision forestry. The program provides members with the knowledge and technology to conduct cost-competitive, quality operations that respect the forest environment.

## Offering tangible benefits to members



### FERIC a Division of FPInnovations

Created in 1975, FERIC (The Forest Engineering Research Institute of Canada) is a private, non-profit research and development organization and a division of FPInnovations. With over 100 forestry and engineering professionals, technicians, and support staff housed primarily in offices in Montreal, Quebec and Vancouver, British Columbia, FERIC's goal is to improve Canadian forest operations within a framework of sustainable development.

FERIC is funded by a vital partnership of leading forestry companies, the Government of Canada, and the provinces plus the Yukon and Northwest Territories. Through this funding we provide members with the knowledge and technology to conduct quality operations that will ensure the long-term sustainability of the sector.

### FERIC, Forintek and Paprican create FPInnovations

The largest private, not-for-profit forest research institute in the world

On 1 April 2007, FERIC, Forintek and Paprican merged to create FPInnovations. The three institutes, together with the Canadian Wood Fibre Centre of Natural Resources Canada, have become the largest not-for-profit forest research institute in the world.

**The vision?** To be the world leader in creating forest sector solutions, and to capitalize on Canada's fibre attributes through the development of new products and market opportunities.

[www.fpinnovations.ca](http://www.fpinnovations.ca)



### HARVESTING

Our harvesting research program improves harvesting operations through studies on increasing the efficiency of current equipment, reducing costs, and enhancing fibre quality and use.

These projects minimize environmental impacts. They explore harvesting alternatives, protection of soil, and advanced regeneration. The development of computer models and decision-support systems assist resource managers. The evaluation of new harvesting technologies guide owners and managers of both small- and large-scale operations in selecting efficient, cost-effective processes adapted to their needs.

### TRANSPORTATION AND ROADS

The most costly phase of wood procurement is the delivery of wood from roadside to the mill or sort yard. Our research helps our members to maximize payload while minimizing costs and improving the efficiency of loading and unloading operations. Truck and driver performance, road and bridge design, construction, and maintenance are also rigorously studied and traffic flow and system optimization models are developed and implemented.

### SILVICULTURAL OPERATIONS

Our silvicultural research programs implement intensified forest renewal and management programs. These programs are essential for sustained yield and environmental protection.

We evaluate site-preparation implements and their prime movers, test alternatives to herbicide use, and improve the efficiency and effectiveness of reforestation. We focus special attention on the link between harvesting and silviculture, as well as on the mechanization of stand-tending activities. Our silvicultural programs also address the treatment of woody residues after harvesting, including residue use in bioenergy production.

### WILDLAND FIRE OPERATIONS

We established the Wildland Fire Operations Research Group (WFORG) in 2000. WFORG develops and commercializes new technologies and knowledge for the suppression and management of wildland fires.

The Group designs and develops more effective fire fighting equipment and evaluates existing equipment and systems. It integrates the management and suppression of wildland fires within forest development planning.

## Canada's leading forestry operations research and development institute

### PRECISION FORESTRY

We apply advanced engineering research expertise on technologies relevant to the forest sector. Our pursuits include the ergonomics of forestry machines, GPS tracking and navigation, data-communication systems, wood flow logistics, automated log-scaling, wood chip classification technology, and equipment-monitoring systems.

### RELEVANT TECHNOLOGY TRANSFER

We take a dynamic technology transfer and implementation approach. We promote research and development results through a growing network of regional offices. We communicate to members directly through publications, conferences, the FERIC website and library services, advisory meetings, and personal contacts. Since 1975, we have published more than 1500 specialized reports.

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