

Feb. 24, 2009  
Fredericton, NB



# Forest Biomass Feedstock Workshop

## Agenda:

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|-------------|---|
| 9:00-9:30   | Registration  |
| 9:30-9:45   | Opening Remarks<br>Nairn Hay - General Manager Fundy Model Forest - Agenda Review   |
| 9:45-10:30  | Eric Kingsley – Innovative Natural Resource Solutions – “Biomass Energy – an International Perspective”   |
| 10:30-11:00 | Shawn Morehouse – New Brunswick Department of Natural Resources – “New Brunswick’s Crown Forest Biomass Harvesting Policy”  |
| 11:00-11:30 | Dr. Evelyne Thiffault – Natural Resources Canada – “Building an index of site suitability to forest residue removal”  |
| 11:30-12:00 | Dr. Paul Arp – University of New Brunswick – “Mapping Tool for Biomass Harvest”   |
| 12:00-1:00  | Lunch (participants are on their own for lunch)   |
| 1:00-1:30   | Jean-Francois Carle – University of New Brunswick – Design and implementation of bio-energy strategies into forest management scenarios for Crown land in New Brunswick |
| 1:30-2:00   | Dr. Darren Sleep – National Council for Air Stream Improvement, Canadian Operations – “Potential Links between Biomass Harvest and Biodiversity”                        |
| 2:00-2:45   | Panel – All speakers – Questions and discussion of “gaps” in our knowledge  |
| 2:45        | Final remarks   |

## Speakers

### **Dr. Paul Arp – Professor – UNB**

Paul Arp is Professor of Forest Soils at UNB, where he taught and conducted soils related research since 1976. Over the years he authored about 100 peer reviewed research papers, and has overseen the development of various models relevant to forest management, specifically dealing with forest hydrology, biomass, nutrient cycling, and environmental stresses including acid rain and climate change. Dr. Arp coordinates research at the Forest Soil laboratory and at the Forest Watershed Research Centre at UNB. His current research interest led him to developing tools in forest management and operations planning, related to the mapping of forest soils and soil moisture regimes at high resolution, in a practical manner. The wet-areas mapping tool has become a well-integrated forest management tool in the Maritimes, in industry and government, and has received attention by the Sustainable Forest Management Network and many partners across Canada. He graduated with a BSc (Hon.) in Chemistry at Carleton University, and with a PhD (Physical Chemistry) at McGill University.

### **Mr. Jean-Francois Carle – Graduate Student - UNB**

Jean-François completed a technical degree in forestry at the “Cégep de Rimouski” in Quebec in 1999. He graduated from the cooperative program of Sciences in Forestry at the University of Moncton in 2006, and is now taking his Masters of Sciences in Forestry at the University of New Brunswick under Dr. Dave MacLean’s supervision. At the end of his bachelor he won the Gold Medal of the Canadian Institute of Forestry in recognition of outstanding scholarships, and citizenship throughout the years of the program. He also won the 2<sup>nd</sup> prize for the best scientific project at the Atlantic Bioenergy Conference in St-John in 2007. Jean-François has interest in forest planning and bioenergy production and his Masters project is about incorporating bioenergy production into forest management strategies for Crown land in NB.

### **Mr. Eric Kingsley – Vice President - Innovative Natural Resource Solutions**

Eric Kingsley serves a Vice President of Innovative Natural Resource Solutions LLC (INRS), a natural resource, forest industry and biomass energy consulting firm with offices in New Hampshire and Maine. He leads the firm’s efforts on biomass energy, and has worked with dozens of biomass energy developers across North America on evaluation and implementation of biomass energy projects. Most of these projects are biomass electricity, though he has also had involvement in thermal energy and cellulosic ethanol project development. Clients include merchant developers, investment banks, investor-owned utilities, manufacturers and others seeking to evaluate opportunities and implement projects in biomass energy.

In addition to work directly for the biomass energy industry, Eric has been involved in the evaluation of opportunity and the development of private and public policy to move responsible biomass energy projects forward. Clients in this area have included the National Association of State Foresters, the North East States for Coordinated Air Use Management, The Energy Foundation, the Massachusetts Division of Energy Resources and the Atlantica BioEnergy Project (an effort that brought together the Provinces of New Brunswick and Nova Scotia and the State of Maine).

## Speakers

### **Mr. Shawn Morehouse - Utilization Forester, New Brunswick Department of Natural Resources.**

Shawn Morehouse has worked for DNR since 1999 in a number of roles from Management Forester to Forest Management Planner in his current position.

### **Dr. Darren Sleep - Senior Forest Ecologist, Canadian Operations - NCASI**

Dr. Darren Sleep is the Senior Forest Ecologist with the Canadian operations of the National Council for Air and Stream Improvement (NCASI). NCASI is a non-profit environmental research organization that seeks to create credible scientific information required to address the environmental information needs of the forest products industry in North America. Having operated successfully in the United States since 1943, NCASI opened an office in Montreal in 2002 to serve its Canadian member companies. Darren received a B.Sc. in Biology from the University of New Brunswick (Fredericton) in 1999, a M.Sc. in Biology from the University of Regina in 2001, and a Ph.D. in Ecology from the University of Guelph in 2006. Since January 2006, Darren has managed NCASI's Canadian Forestry Technical Studies Program covering projects under subject areas such as conservation planning, watershed management, and wildlife and biodiversity. His research interests focus on the links between forest management, disturbance, and terrestrial biodiversity and ecology.

### **Dr. Evelyne Thiffault – Research Scientist - NRCAN**

Evelyne Thiffault has a degree in forest engineering (2001) and a PhD in forest sciences (2006), both from Université Laval. Her PhD studies were focused on the ecological impacts of biomass harvesting in Quebec. She has been a postdoctoral researcher with the Canadian Forest Service in Quebec City since 2007, and conducts research on the effects of biomass harvesting and fast-growing plantations on nutrient cycling and site productivity.

## Continuing Education Credits

The following credits have been assigned to this workshop: \*\* 12 CFE, 4 CIF credits

Watch the Fundy Model Forest Website for opportunities to obtain credits through post-conference video.

[www.fundymodelforest.net](http://www.fundymodelforest.net)

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**Our forests, our communities, our future**

Our vision:

Healthy communities within a working Acadian forest managed using the principles of sustainable forest management

Fundy Model Forest is a member of the Canadian Model Forest Network and one of 14 Model Forests in Canada.

**Natural Resources Canada supports the work of the Fundy Model Forest through the Forest Communities Program.**