



FRIENDS OF THE PETAWAWA RESEARCH FOREST INC.

NEWSLETTER #8
(February 2007)

This is our first newsletter of 2007 (#8 in the series), intended to bring you up to date on recent developments in our organization and the Petawawa Research Forest. Please refer to our website www.FriendsofPRF.webhop.org for previous newsletters, more detailed organizational information and a variety of useful links.

Please note that your 2007 charitable membership donations will be gratefully received – see page 5 for detachable form.

Board of Directors: The 2007 Board of Directors (BOD) as elected by acclamation at the Annual General Meeting (#5) on November 7, 2006 at the Deep River Library, is as follows:

Chairman	Earl Berry	(613) 584-7773
Vice President	Frank Knaapen	(613) 735-4700 Local 2741
Treasurer & Membership	Susan Yatabe	(613) 584-3311 Local 3435
Secretary	Kathleen Burgess	(613) 687-2214
Web Site	Liz Mitchel	(613) 584-2409
Board Member	Robin Cunningham	(613) 732-8402
Board Member	C.W. (Kit) Yeatman	(613) 584-1416
Board Member	E.K. (Kris) Morgenstern	(613) 735-5638
Board Member	Tom Moore	(613) 584-9354

White Pine Demonstration Forest: The Demonstration Forest on PRF property off the Nature Trail south of the Visitor Centre and located between the C.P.R. Railroad and the TransCanada Highway #17, became a reality in 2006. The funding for this project was allocated to the Renfrew County Forest Stewardship Committee by the Renfrew County Community Futures Development Corporation. The advisors for this project were the Forest Stewardship Committee, Steve D'Eon and his staff, and the Friends.

This new Demonstration Forest was the focus of the annual fall “Walk in the Woods”, with more than 50 participants viewing the forest, new trails and signs.

This area will help the Friends’ educational efforts to showcase the natural beauty of the PRF forest environment and also teach the rewards of good White Pine management to the general public and private woodlot owners.

Projects: The following are continuing or proposed projects of the Friends during 2007:

- **Signs:** A mobile display sign promoting the Friends of the PRF for use at the various venues we attend is being produced.
New signs for the Water Trail are under production.
A new museum display case has been built and paid for by the Friends. It will contain antique forestry instruments.

- **2007 Fund Raising Campaign:** Our successful fund raising campaign of 2006 will be continued this year with letters sent to many public and private organizations that might be interested in the Friends' program.
A special one-time grant of \$1 500 from the Toronto Dominion Friends of the Environment fund was received and acknowledged at the opening of the Visitor Centre on June 30, 2006.
- **Envirothon:** The Ontario Environthon (The "Environmental Olympics") is an interactive environmental education program for youth from Grades 9 to 12, sponsored by the Ontario Forestry Association. Five woodlot subjects are studied – Forestry, Wildlife, Soils, Aquatics and a mystery subject. Regional competitions take place throughout the school year with the provincial competition taking place in the spring. The Friends have agreed to be involved, through volunteering and bussing costs, with the local competition to be held at the PRF on April 26, 2007. More volunteers are welcome. Information about this program can be found at: <http://www.ontarioenvirothon.on.ca/>
- **Ontario Woodlot Association:** This group sponsors a project involving Grade 7 and 8 students from local schools being taken by bus to a woodlot area to identify such natural features as tree species, wildlife (birds, reptiles etc.), marshes or wetlands for water sampling and tree measurements. Volunteers visit the school(s) involved a few days before the field day to prepare the class and teachers for the event. 2006 saw students from Keys Public School in Deep River come to the PRF. This project is once more being considered for 2007.
- **Ski Trails:** Proposals have been made for the Friends to play an active part in the hiring of someone to clear the Maunsell Lake Trail. The H.S.A. Trail is currently open and the Acer Trail is soon to be open, both because of the efforts of the Deep River Ski Club and the PRF staff.
- **Liability Insurance:** A quote for the Friends to obtain liability insurance through the Deep River Community Association is being discussed by the Board.
- **Kids' Corner:** A proposal for a hands-on Kids' Corner for the Visitor Centre is being pursued. Suggestions are welcome.

Current 2007 Research Activities Within The PRF: Because of the positive response to the inclusion of this list in last year's newsletter, an updated version has once more been included. For additional information please contact the researchers listed or Mr. Steve D'Eon (PRF Forest Manager) at (613) 589-2880, sdeon@nrcan.gc.ca

- **Use of Forest Biomass for Energy:** Assessing the economic and environmental feasibility and costs associated with production and use of forest biomass and forest biomass residues for renewable power generation based on single cycle combustive technologies at the PRF. Lead is Suzanne Wetzel, CFS-Sault Ste. Marie.
- **Annotated Bibliography for White and Red Pine:** Summarizing the research on the ecology, silviculture and management published between 1960 and 2007. Lead is Darwin Burgess, PRF.
- **Acquiring and testing Multiband orthophotography (and integrated LiDAR) for production of enhanced forest inventories in the Great Lakes St. Lawrence Forest:** The PRF is one of the test sites for assessing the use of LIDAR technology in forestry. Lead is Murray Woods, OMNR.

- **Effects of spacing and thinning on plantation-grown red pine:** Draft paper completed of an assessment of productivity, products and economic value. Lead is Margaret Penner, Forest Analysis Ltd., Huntsville, ON.
- **First Generation White Pine Genetics Study:** New field test of 180 white pine seed lots collected in northern Ontario was established. Lead is Dennis Joyce, Ontario Forest Research Institute.
- **Carbon Sequestration in White Pine:** Assessing the carbon and nutrient budgets in old-growth stands and in plantations of white pine. Lead is Alison Munson, Laval University.
- **Forintek Wood Durability Test:** Testing how long treated and untreated posts and decks last in use. Contact is Janice Ingram of Forintek Canada Ltd., Vancouver, BC.
- **Red Pine Fungal Biodiversity Study:** Testing biocontrol agent for *Fomes annosus* on plantation red pine. Contact is Gaston Laflamme, CFS-Quebec City
- **Spoor Lake Jack Pine Cone Collection:** Individual tree collection of cones from Spoor Lake jack pine seed orchard (one of the better performing sources of jack pine).
- **White Pine spacing Trial with Acadia and China:** A white pine spacing trial being installed in China (without weevil or blister rust) and Canada. With Liaoning Provincial Academy of Forestry and Jilin Provincial Academy of Forestry (China) and Acadia Research Forest, NB.
- **International R & D, Seed and Genetic Resources:** Ben (B.S.P.) Wang has maintained his position as Emeritus Research Scientist at the PRF for many years. The focus of his interest is to advise and assist Chinese Forest Authorities in the acquisition, testing, and utilization of major eastern Canadian tree species, notably jack pine and white pine, in northern and eastern China.
- **Climate change influences on radial tree growth:** A study to understand how past climate changes influenced radial growth of four major boreal tree species (black spruce, jack pine, white birch and trembling aspen) to model and predict future growth.
- **NEBIE:** (Natural disturbance, Extensive, Basic, Intensive, Elite). Testing of silvicultural methods for the conversion of mixed-wood pine stands to higher value pine stands. Lead is Wayne Bell, Ontario Forest Research Institute.
- **Moosegrove Natural Regeneration of Red Pine:** Testing of methods to naturally regenerate red pine in cooperation with Nipissing University. Lead is Steve D'Eon
- **Evolutionary Aspects of *Lobilia inflata*:** Testing of microenvironments that drive the evolutionary advantage of this plant. Lead is Andrew Simons, Carleton University.
- **Inheritance of black spruce for carbon sequestration:** Testing of inheritance characteristics of black spruce for carbon sequestration. Lead is John Major, CFS-Maritimes.
- **Development of a seed source model for climate change response of jack pine:** Lead is Bill Parker, Lakehead University.
- **Installation of an air quality monitoring station:** Ontario Ministry of Environment is installing an air quality monitoring system to supplement the provincial pollution-monitoring network. Lead is Al Melanson, MOE, Toronto.

- **Testing of willow sources for carbon and bioenergy:** Lead is Alex Mosseler, CFS-Maritimes.
- **Remote sensing methods for Kyoto and forest changes:** Lead is Don Leckie, CFS-Pacific.
- **The impact of genetic and environmental signals in tree rings in conifers:** Lead is Jianguo Huang, University of Quebec.
- **The effects of density management on the quality of jack pine:** Lead is Julia Savva, University of Quebec.
- **Seed source trial of white spruce:** Lead is Bill Parker, Lakehead University.
- **Long-term studies in forest management:** With USDA and Lloyd Irland, Yale University.
- **Afforestation for Kyoto: red pine.** In cooperation with Dan McKenny, CRS-SSM.
- **Cartier Lake Silvicultural Area:** Effects of hardwood release of eastern white pine in mixed-wood stands. Lead is Darwin Burgess, PRF.
- **Meridian Road Silvicultural Area:** Evaluations of partial cutting, site preparation and underplanting in eastern white pine. Lead is Darwin Burgess, PRF.
- **Initiation of PRF Seed Bank:** Local collections were made for all major tree species to be used for future research. Lead is Steve D'Eon.
- **Re-measurement of the silvicultural permanent sample plots within the PRF:** Lead is Craig Robinson, PRF, Petawawa.
- **Seed Orchard White Spruce cone collection for future research use.** Lead is John Major, CFS-Maritimes.
- **White Cedar and Eastern Hemlock seed collection.** Lead is Dale Simpson, CFS-Maritimes.
- **A Class Environmental Assessment for Timber related activities on Federal Lands in Ontario.** Lead is Steve Dominy, CFS-Sault Ste. Marie.

Membership: Our 2006 membership totaled 120 with 69 active members, including Corporate members. A further 27 individuals (now scattered across Canada) who worked at the former PNFI have been contacted to inform them of the work of the Friends.

Treasurer's Report: As of January 31, 2007, the Friends' account at the Deep River Northern Credit Union stood at \$7348.74

Addresses: The Friends of the PRF Inc. may be contacted as follows:
 Canada Post: P.O. Box 2000, Chalk River, ON. K0J 1J0
 Web Site: www.FriendsofPRF@webhop.org
 Email: friendsofprf@magma.ca

