



MANITOBA AND NORTH DAKOTA

ENVIROTHON COMPETITION

2001-2002

FINAL REPORT - MANITOBA

Prepared: July 3, 2002

MANITOBA ENVIROTHON

Final Report 2001-2002

This year's Envirothon was very exciting and challenging as Manitoba partnered with North Dakota to deliver a joint Envirothon competition at the International Peace Garden.

The first step in the Envirothon process was to prepare binders of information and supplementary materials to be distributed to those schools registered for the program. Mike James undertook this time consuming work with the co-operation of members of the various committees and special assistance from Dr. Alex Salki and Dr. Kent Simmons. The four basic binders included forests, soil, aquatics and wildlife, with the fifth binder covering the special environmental topic: "Biodiversity – The Effects of Introduced Species".

Meetings of the Manitoba volunteer steering committee were scheduled at regular intervals throughout the fall and winter, increasing in number as the provincial competition approached. This committee and several sub-committees were responsible for all aspects of the competition.

This included:

- working with John McQueen, Director, International Peace Garden to organize accommodation and use of other facilities, as well as sites for the trail testing and orals competition;
- working with Selma Maendel, in charge of food services;
- finding volunteers to prepare for and deliver the event; and
- writing the trail tests, and the Orals question.

At the helm for Manitoba were Jim Potton, Chair and Mike James, Coordinator. In addition to the Manitoba meetings, there were joint meetings with the North Dakota steering committee. These were generally held at the Peace Garden so committee members had an opportunity to view the facilities and make their plans accordingly.



Jim Potton - Chair



Mike James - Co-ordinator

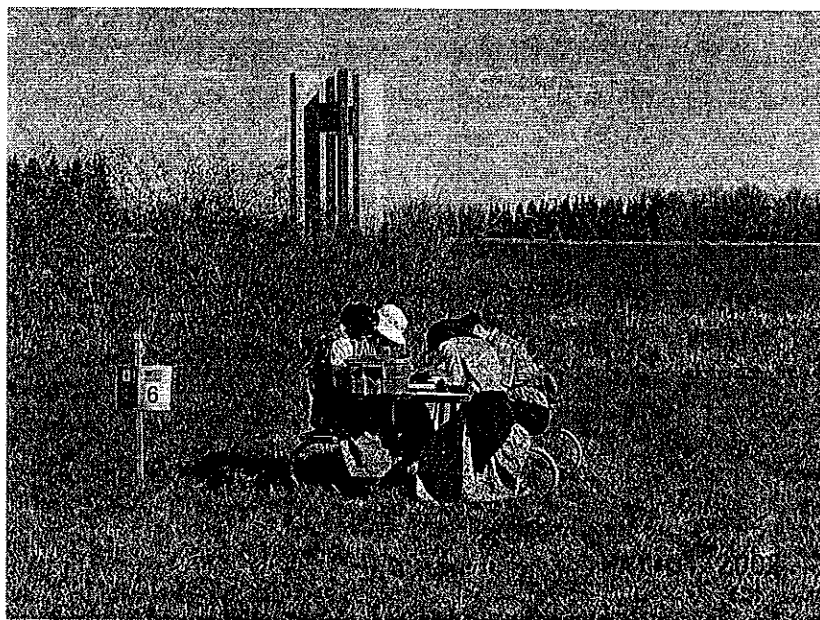
The co-operation of many individuals was invaluable in making possible this undertaking. Included in this list are the Manitoba volunteers (over 60), the teachers and students who enthusiastically participated, the contacts at the International Peace Garden, our financial supporters and of course, our partners in North Dakota.

Twenty-one Manitoba teams participated in the competition. The teams involved were: Arthur Meighen High School, Portage la Prairie; College Jeanne Sauve, Winnipeg; Crocus Plains Regional Secondary School, Brandon; Edward Schreyer School, Beausejour; Fairholme School, Portage la Prairie; Fort Richmond Collegiate, Winnipeg; Gimli High School, Gimli; Glenway School, Glenway; Grant Park High School, Winnipeg; Lac du Bonnet Senior School, Lac du Bonnet; Lord Selkirk Regional Secondary School, Selkirk; W. C. Miller Collegiate, Altona; Morris School, Morris; Northwest Soil Management Board, Swan Valley; Shaftesbury High School, Winnipeg; Silverwinds School, Sperling; Stonewall Collegiate, Stonewall; Swan Valley Regional Secondary School, Swan River; Vincent Massey Collegiate, Winnipeg; Vincent Massey High School, Brandon; and Windsor Park Collegiate, Winnipeg. The Pembina Valley Conservation District Environmental Club from Manitou registered for the program, but unfortunately was not able to compete.

Pre-Competition Workshop

Mike James and Eric Uhmman planned and facilitated a full day of activities at Oak Hammock Marsh on Friday, April 19th through the co-operation of Michele Kading and staff at the Interpretive Centre. A copy of the schedule forms part of this report. The presentations by experts in the various fields were designed to help the Envirothon students prepare for the competition in May.

Provincial Competition



With Peace Tower in background
students ponder over a trail test question

Thursday, May 30th – Registration for the Provincial Competition took place on Thursday, May 30th in the dining hall at the International Peace Garden for teams and in Howard Hall for volunteers. Registration boxes had been pre-packaged for the teams and this made registration much more efficient, given the number of students and teachers (37 teams in total) who had to register. T-shirts, nametags, souvenir pins from the Peace Garden and mugs (donated by Manitoba Hydro and Sustainable Development) were distributed to the teachers, students and volunteers. Mike James assigned rooms during registration.

Once the teams were registered they gathered in the Masonic Auditorium for the evening program. Light refreshments were provided through donations secured by Diane Olson from North Dakota.

Glenda Fauske (ND) and Jim Potton (Mb.) co-chaired the proceedings, which included an official welcome and brief remarks by Dr. Clarence Bina, State Department of Public Instruction and Assistant to Dr. Wayne Sanstad, State Superintendent. Diane Olson (ND) and Mike James (Mb.) introduced the teams; Andrea Swain spoke about recycling activities for the next two days, and Glenn Peterson spoke about the trail testing. Pierre Bottineau entertained the group with his environmental stories, and the evening ended with an ice-breaker (paper) snowball fight. Glenn Peterson held a briefing session for those trail captains and guides who were already on site.



Demonstrations before trail testing
help familiarize students with
equipment

Friday, May 31st – Following breakfast everyone boarded buses to proceed to the trailhead where a brief equipment training session took place for the teams. The trail captains and guides participated in a short orientation session with Glenn Peterson.

Several members of the media visited the trail site during the morning and early afternoon, including a reporter and cameraman from CKX-TV, Brandon, and a reporter and photographer from the Boissevain Recorder.



Trail test included solving problems
"on the water"

While the trail testing was underway, teachers participated in an Information Sharing Workshop facilitated by Diane Olson and Mike James. This is always a valuable session for the teachers, particularly those who are new to the program, and for the MFA as we are always looking for new and better ways to achieve our objectives.

Everyone gathered together shortly after noon at the trailhead for lunch prepared and served by Fairholme Colony. Andrea Swain looked after recycling.

Trail testing continued after lunch, while teachers participated in a workshop on the 2003 environmental theme (Agriculture), with guest speakers Wayne Hildebrand, Manitoba Intergovernmental Affairs, Gladstone, Jennifer Hagglund, Assistant State Conservationist, Natural Resources Conservation Service, US Department of Agriculture and Terry Volk, County Weed Board Specialist, ND Department of Agriculture. A brief overview of Maryland 2003 was provided by Craig Zinter, Canon Envirothon. Teachers were given the opportunity to tour the test trails through the co-operation of Glenn Peterson, Laureen Janusz, Barry Oswald, David Hay, Richard Lee, the trail captains and some of the trail guides.

The teams returned to the dining hall for dinner and then assembled in the Burdick Centre for an evening emceed by Brendan Carruthers, which included a talk on Biodiversity by Dr. Kent Simmons. Special guests representing Canon Envirothon were introduced and said a few words. These included Craig Zinter, Maryland, Chair of Canon Envirothon; Clay Burns, Mississippi, Executive Director, Canon Envirothon, and Debbie Totten, Nova Scotia Forestry Association and Canadian member-at-large, Canon Envirothon. Norm and Janet Hammond, Rhode Island volunteered throughout the event.

The more formal part of the evening was followed by a trading session, games, socializing, dancing and outdoor activities.

A briefing for Orals facilitators, monitors and runners who were available was held in Howard Hall Friday evening.



Team work is essential to successfully
answer test questions

Saturday, June 1st - Following breakfast, teams met in the Masonic Auditorium where Mike James instructed them on preparation and presentation of their orals. Due to the number of teams presenting Orals this year, preparation time was limited to approximately 1½ hours.

Manitoba teachers gathered with Glenn Peterson, David Hay and Barry Oswald to review the trail tests and to discuss any aspects of the program which were creating difficulty. As always, worthwhile suggestions came out of this session.

Judges were greeted and addressed by Jim Potton and Michele Kading. Dr. Kent Simmons gave a short presentation on the special issue, his previous Envirothon experiences and what to look for when judging a team.

The first round of Oral Presentations began at 10:30 a.m. with 7 teams presenting at a time. Presentations continued until noon and resumed at 1 p.m. Presentations were 10 minutes with an additional 5 minutes for questions from the judges. Teachers were allowed to observe only their own team.

Once the preliminary judging was completed everyone moved to the Burdick Centre at 3 p.m. Brendan Carruthers was emcee. While waiting for the results of the preliminaries, some of the prizes were distributed. Glenda Fauske and Jim Collins, Jr. distributed the North Dakota awards. Glenn Peterson facilitated the Manitoba Awards, which were given out by a number of people representing the various disciplines. At 3:10 p.m. the six finalists (3 from ND and 3 from Mb.) were announced. The North Dakota teams were: Kenmare Public School, Sargent Central High School and West Fargo High School Packers, and the Manitoba teams were: Fairholme Colony, Northwest Soil Management Board and Swan Valley Regional Secondary School. These six then presented Orals for the second time before a common set of judges which included Clay Burns, Tom Gibson, Bob Laidler, Barry Waito and Craig Zinter.

The teams placed as follows: **North Dakota:** West Fargo High School 1st, Sargent Central High School 2nd and Kenmare Public School 3rd; **Manitoba:** Swan Valley Regional Secondary School, Swan River 1st; Northwest Soil Management Board, Swan Valley 2nd and Fairholme Colony School 3rd. Swan Valley Regional Secondary School will represent Manitoba at the Canon Envirothon in Amherst, Massachusetts from July 29th to August 4th. "Tree trophies" were presented to the Manitoba winning team. Second and third place teams received medallions. Many other prizes were given to recognize teams for excellence in trail testing, etc. Barry Waito, President, Canadian Forestry Association and Debbie Totten, Nova Scotia Forestry Association and the Canadian representative on Canon Envirothon presented medallions to the team from Fort Richmond Collegiate, Winnipeg which had achieved the highest score in forestry.



Swan Valley Regional Secondary
School Envirothon Team
1st Place in Manitoba

Publicity

Publicity included 2 MFA media releases, one prior to the competition and one announcing the winners; articles in The Brandon Sun, The Recorder, Boissevain, and The Star and Times, Swan River; and a taping on site by CKX-TV, Brandon.



Swan River team discusses
possible answers at
wildlife table

Sponsors

We acknowledge, with much appreciation, the partners and sponsors of the 2001-2002 *Manitoba Envirothon*:

Canadian Wildlife Service
 Canon USA, Inc.
 Clean Environment Commission
 Delta Waterfowl Foundation
 Ducks Unlimited Canada
 Emerge Knowledge Design
 Enbridge Pipelines Inc.
 Fairholme Colony
 Freshwater Institute, Fisheries and
 Oceans Canada
 International Institute for Sustainable
 Development
 Louisiana-Pacific Canada Ltd.
 Manitoba Agriculture and Food
 Manitoba Climate Change Action Fund
 Manitoba Conservation
 Manitoba Education & Training
 Manitoba Forestry Association

Manitoba Hydro
 Manitoba Intergovernmental Affairs,
 Conservation Districts
 Manitoba Model Forest
 Manitoba Naturalists Society
 Manitoba Product Stewardship
 Corporation
 Oak Hammock Marsh Interpretive
 Centre
 Myrna and Jim Potton
 Prairie Farm Rehabilitation
 Administration (PFRA)
 Sustainable Development Innovations
 Fund
 Tembec – Pine Falls Paper
 Tolko Industries Ltd.
 University of Manitoba
 Wildlife Officers Museum



West Fargo Team took 1st Place
 in North Dakota

Thanks to everyone who supported Envirothon !

Contributors

All Charities Campaign
 Canadian Forestry Association
 Fort Whyte Centre for Environmental
 Education
 Hanover Springs Ltd.
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 INFASCO Division of Ifastgroupe & Co.
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 Fire Program
 Fisheries Branch
 Forestry Branch
 Lac du Bonnet Office
 Parks Branch
 Pollution Prevention Branch
 Product Distribution Center
 Water Quality Branch
 Wildlife and EcoSystem Protection Branch
 Manitoba Habitat Heritage Corporation
 Manitoba Lotteries Commission

Manitoba Model Forest Secretariat
 Manitoba Public Insurance Corporation
 Manitoba Wildlife Federation
 Meteorological Service of Canada
 Mohawk Oil Company Ltd.
 Museum of Man and Nature
 North-South Consultants
 Pembina Valley Conservation District
 Pineland Forest Nursery
 S.I.R.
 Spruce Products Ltd.
 TetrES Consultants Inc.
 Tim Hortons (Dakota Street, Wpg.)
 Turtle Mountain Conservation District
 Upper Assiniboine River Conservation
 District
 Wardrop Engineering Inc.
 Watson Wyatt Worldwide
 West Souris River Conservation District
 Whitemud Watershed Conservation District

Volunteers

A sincere thank you to all those who volunteered many, many hours to *Manitoba Envirothon* and especially Jim Potton, Chair of the Envirothon Steering Committee; Mike James, Envirothon Coordinator; Glenn Peterson, Chair of the Test Writing Committee and the Grievance Committee and responsible for evaluations; Michele Kading, Chair of the Orals Committee; Brendan Carruthers, Chair of the Logistics and Food Committees; Andrea Swain, recycling; Bev Dube and Laureen Janusz, prizes; Bill Baker, publicity and Dianne Beaven, volunteer coordinator. Our thanks to all those who helped with registration, participated as Trail Captains and Trail Guides, marked trail tests, moved tables, packaged prizes and judged the Orals. Thank you to those who helped assemble material for the schools, and assisted with the many other details necessary to hosting a successful Envirothon.



Volunteers are essential to the
 success of Envirothon !

Volunteer Component

TOTAL: 2,587 hours x \$ 25.00 \$64,675

Special thanks to all those helpful volunteers from Manitoba and North Dakota !!!



Teams collect data on the biodiversity of a stream
by seining

Attachments

Manitoba Envirothon program
Financial Summary
Press Releases
Newspaper clippings
Photos (Photo credits: Diane Olson, ND and Bill Baker, Mb.)
April Workshop Schedule

July 3, 2002

Prepared by: Dianne Beaven, P. Pohrebniuk

MANITOBA ENVIROTHON

Financial Statement July 1st, 2001 to June 30th, 2002

Income

Canon U. S. A.	770.95
Terry Duguid	50.00
Enbridge Pipelines Inc.	2,000.00
Louisiana Pacific Canada	1,500.00
Manitoba Climate Change Action Fund	6,000.00
Manitoba Hydro	5,000.00
Manitoba Product Stewardship Corporation	1,000.00
Jim Potton	400.00
Spruce Products Ltd.	1,500.00
Sustainable Development Innovations Fund	20,000.00
Tembec - Pine Falls Operation	500.00
Tolko Industries Ltd.	300.00
Dick Walker	250.00
Pre-Competition Workshop Registration	1,890.00
School Registrations	4,300.00
Refund from North Dakota Envirothon (food, accommodation, shirts)	11,208.63
Miscellaneous	<u>58.00</u>
TOTAL:	56,727.58

Expenses

Co-ordinator & expenses	12,710.81
Climate Change Component	6,000.00
Food Services (Mb. & ND combined)	15,624.00
Accommodation (Mb. & ND combined)	4,424.00
Buses	421.00
T-shirts/awards/pins (t-shirts - Mb. & ND combined)	5,257.35
Pre-competition workshop	2,400.00
Canon Membership/Registration	1,981.49
Travel Assistance to team (to attend Canon Envirothon)	3,750.00
Staff expenses, including mileage	538.06
Supplies	520.13
Programs	1,100.00
Name tags	1,000.00
Miscellaneous Expenses	29.46
Expenses pertaining to Canon Envirothon summer meeting	<u>1,469.92</u>
TOTAL:	57,226.22
 BALANCE (DEFICIT)	 (498.64)

In-Kind

Personnel Costs	\$ 64,675.00
Materials/Supplies	600.00
Equipment Rental	1,500.00
Office Costs (6x\$200)	1,200.00
Transportation Costs	<u>1,755.00</u>
TOTAL:	69,730.00

**STUDENTS PUT THEIR ENVIRONMENTAL
KNOWLEDGE TO THE TEST AT INTERNATIONAL
ENVIROTHON COMPETITION**

Winnipeg, Manitoba – 185 students representing 37 teams from across North Dakota and Manitoba will be putting their knowledge of the environment and environmental issues to the test at the joint North Dakota/Manitoba Envirothon Competition May 30th to June 1st being held at the International Peace Garden.

“The Envirothon challenges students on their environmental knowledge, understanding, and problem solving skills relating to forests, soils, wildlife, aquatics, and current issues topic using real-life situations” says Jim Potton, chair of the Manitoba Envirothon Committee. “It involves the students in a hands-on practical learning experience where they must work as a team”.

Field testing will take place Friday May 30th with oral presentations on Saturday June 1st. Both North Dakota and Manitoba will declare their champion at the awards ceremony Saturday afternoon and these teams will go on to represent their state/province at the 2002 Canon Envirothon in Massachusetts this August.

For further information on Envirothon, please contact:

Dianne Beaven (Executive Director) or Bill Baker (Program Director)

Manitoba Forestry Association

900 Corydon Avenue

Winnipeg, Manitoba R3M 0Y4

Tel: (204) 453-3182

Cellular (during competition): (204) 867-7409

The Manitoba Forestry Association is a charitable, non-profit organization providing environmental education programs throughout Manitoba and is the oldest such organization in the province.

June 3, 2002

FOR IMMEDIATE RELEASE

**SWAN VALLEY REGIONAL SECONDARY SCHOOL
WINS 2002 MANITOBA ENVIROTHON COMPETITION**

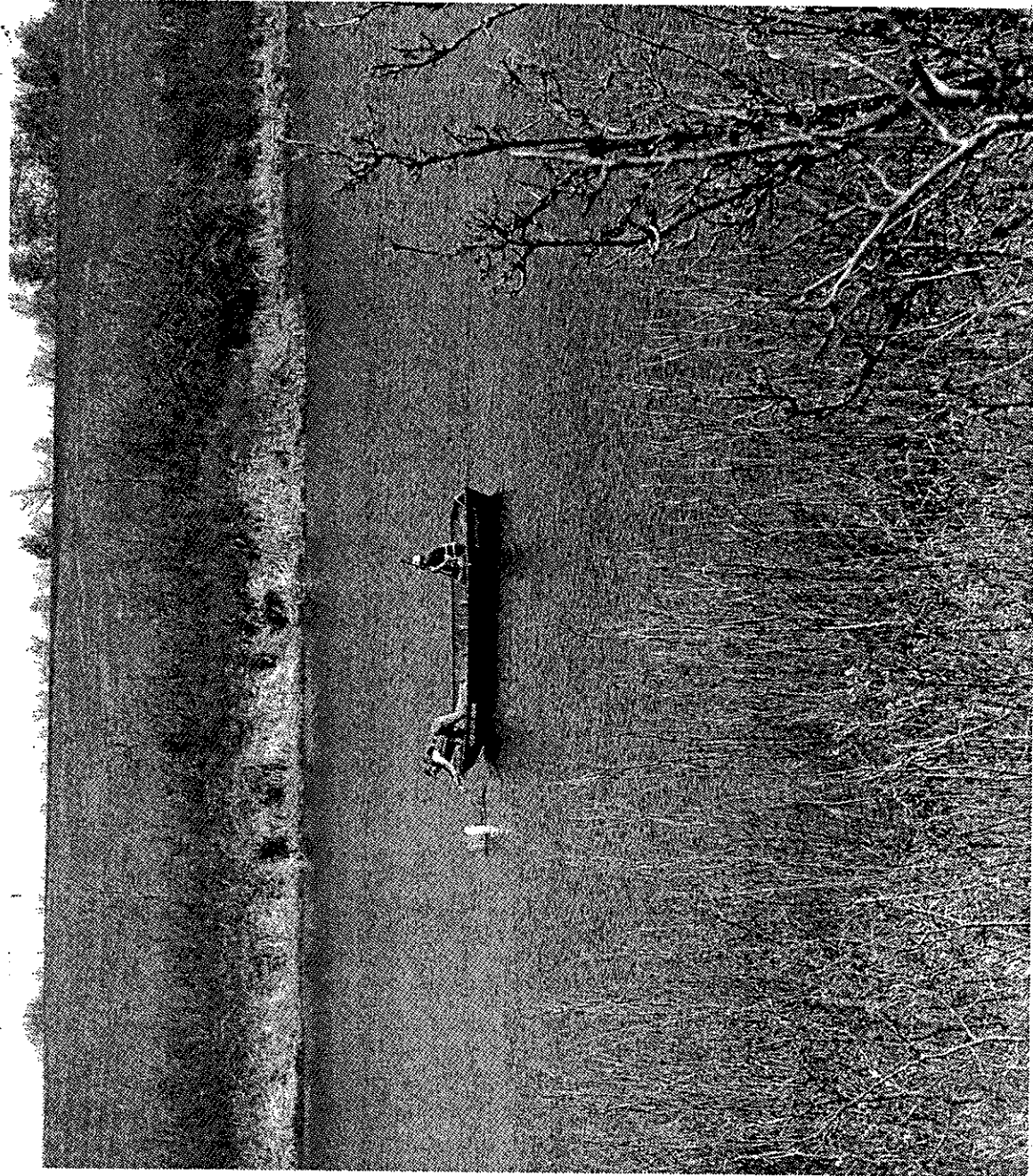
Swan Valley Regional Secondary School from Swan River has won the 2002 Manitoba Envirothon competition held May 30th to June 1st at the International Peace Garden. Team members Jennifer Reimer, Ashley Gade, Mark McCrea, Stephanie Byblow, and Karen Statkewich along with their teacher advisor Rich Wowchuk will travel to Hampshire College in Massachusetts this summer to represent Manitoba at the North American championship, the **Canon Envirothon**. The team sponsored by the Northwest Soil Management Board from Swan River placed second and Fairholme School placed third. A total of twenty-one teams from across Manitoba took part.

Envirothon is one of the environmental education program offered by the Manitoba Forestry Association and targets high school students by offering a positive learning experience through competition with other high schools. Envirothon team members prepared for the competition during the school year using study and reference materials, field trips, and resource speakers on forests, soils, wildlife, and aquatics and the current environmental topic "Biodiversity and Introduced Species". At the Manitoba Envirothon competition the teams were tested on their knowledge of the issues and topics using real life hands-on situations.

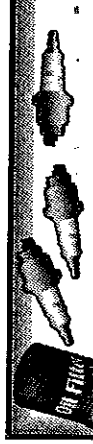
For further information on Envirothon, please contact:

Manitoba Forestry Association
900 Corydon Avenue
Winnipeg, Manitoba R3M 0Y4
Tel: (204) 453-3182
Email: mfainc@mb.sympatico.ca
Website: www.mbforestryassoc.ca

The Manitoba Forestry Association is a charitable, non-profit organization providing environmental and conservation education programs throughout Manitoba and is the oldest such organization in the province.



School contestants at the Enviro-thon at the International Peace Garden last week testing for water clarity. Photo by Lorraine Houston



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MANITOBA ENVIROTHON – APRIL WORKSHOP
FRIDAY, APRIL 19, 2002
OAK HAMMOCK MARSH INTERPRETATIVE CENTRE

CoChairperson- Mike James, Coordinator, Manitoba Envirothon

CoChairperson- Eric Uhmman, Retired Biology Teacher

(Abstracts or Synopses will be available for some presentations)

MORNING PRESENTATION- In Theatre and Seminar Room

8:00am – 8:45am – Registration – All teams must check in at the Registration desk in Foyer.

8:50am – 9:00am – Welcome by Jim Potton and Instructions by Mike James

TIME	THEATRE (RED) (red coupon needed to enter) Facilitator – Eric Uhmman	SEMINAR ROOM (BLUE) (blue coupon needed to enter) Facilitator – Michele Kading
9:00am to 9:30am	Dr. Rick Baydack – Natural Resource Institute, University of Manitoba “The Importance of Biodiversity”	Dr. James Duncan – Manager, Biodiversity Conservation Section Wildlife and Ecosystem Protection Branch. “Approaches to Conserving Manitoba’s Biodiversity – Provincial Perspectives and Programs”
9:30am to 10:00am	Kim Monson – Geography Dept. University of Winnipeg a) “Plant Watch” b) “Climate Change Monitoring – A Community Approach”	Dr. James Duncan – Biodiversity Conservation “The W-5 of Monitoring Manitoba Owls”
10:00am to 10:30am	Refreshment Break – in foyer (front entrance)	Refreshment Break – refreshments at the back of the room
10:30am to 11:00am	Fred Tait – Farmer, Rossendale, MB “Genetic Modification and Its Effect on Biodiversity”	Lisette Ross – Research Biologist, Ducks Unlimited “Healthy Marshes and Their Biodiversity”
11:00am to 11:30am	Dr. John Wilmhurst “Exotic Species Invading Grasslands”	Corey Lindgren – Biologist, Ducks Unlimited “Invasive Species of Manitoba”
11:30am to 12:00pm	Dale Wrubleski – Researcher, Institute for Wetland and Waterfowl Research “Introduced Fish Species in Manitoba and their Impacts on Aquatic Habitats and Biodiversity”	Hank Hristienko – Conservation Manitoba “Black Bear Management”

12:00pm – 1:00pm – Bag lunch available from foyer and back of seminar room

*There is the option of eating lunch in the seminar room, theatre on the deck, or in the courtyard.

You may also visit the display table for brochures, pamphlets, etc.

AFTERNOON WORKSHOPS

-) "Hands on" activities and demonstrations
-) 6 presentations done twice
-) Each participant will only be able to attend 2 workshops. The whole team will then experience them all and share later.

*An individual needs a corresponding number to the room to enter

Room 1 (Black duck room downstairs) 1:00pm – 2:00pm 2:30pm – 3:30pm	"Importance of Trapping" Cliff Brook and Stu Jensen of Manitoba Trappers Association, Lac Du Bonnet, MB
Room 2 (Canvas back room downstairs) 1:00pm – 2:00pm 2:30pm – 3:30pm	"Wildlife Wonders" Bob Austman, Biology teacher and Past President of the Woodlot Association of Manitoba Michele Kading, Head of Interpretation, Oak Hammock Marsh Centre
Room 3 (Lab upstairs) 1:00pm – 2:00pm 2:30pm – 3:30pm	"Aquatics (biological)" Laureen Janusz, Fisheries Biologist, Manitoba Conservation Dr. Wendy Ralley, Water Quality Specialist, Manitoba Conservation
Room 4 (Green winged teal room upstairs) 1:00pm – 2:00pm 2:30pm – 3:30pm	"Aquatics (physical)" Barry Oswald, Water Resources, Manitoba Conservation
Room 5 (Cinnamon teal room upstairs) 1:00pm – 2:00pm 2:30pm – 3:30pm	"Forestry" Glen Peterson, Forestry Branch, Manitoba Conservation Bill Baker, Program Director, Manitoba Forestry Association
Room 6 (Blue winged teal room upstairs) 1:00pm – 2:00pm 2:30pm – 3:30pm	"Soils" Steve Sager, PFRA Soil Specialist, Beausejour area David Hay, Soil Specialist, Manitoba Agriculture and Food Peter Haluschuk, Pedologist, Manitoba Agriculture and Food

Note: 2:00pm – 2:30pm Refreshment break in the foyer.

Manitoba Envirothon welcomes 19 Manitoba teams to the workshop and visitors Diane Olson, Coordinator of North Dakota Envirothon and Lena Bohm, North Dakota Envirothon Steering Committee Member.