Fredericton New Brunswick Canada April 26 - 28, 2016 est Vegetation Management Advanced Forest V 368

North America's top **Forest Vegetation Management Experts** & Risk Management Strategists come together to provide your employees with state-of-the-art knowledge and skills that are needed in today's world.

Knowledge

Socio-Economic Impacts

Public Perceptions



Risk Assessment & Management

Caring



your sea

NOW



Science

Facts

Training

Sourse Objectives

Participants completing this course will understand:

- The principles of forest vegetation management
- The role of herbicides in promoting successful forest regeneration
- The effects of plant competition on the growth and development of forest stands
- Types and formulations of herbicides available for forest vegetation management
- How to select the most effective herbicide to meet a specific silvicultural objective
- The latest research on environmental fate of herbicides in the forest environment
- Principles of toxicology related to forest herbicides
- The most recent understanding on the effects of herbicides on forest wildlife and wildlife habitat
- State-of-the-art techniques on how to most effectively apply herbicides and protect the environment
- Principles of risk perception and how to engage in successful risk communication with the public
- Advanced integrated forest vegetation management and alternatives to herbicides
- How to develop a successful forest vegetation management plan using herbicides and the alternatives

Each course participants will receive a certificate that shows that you have obtained the most comprehensive training available and demonstrated the skills necessary to practice forest vegetation management.

Continuing Forestry Education Credits: 23

Pesticide Licensing Credits: 18

Enrollment is **limited to 30 people** on a first-come-first-serve basis. We must have your application in hand and payment received in order to guarantee your spot on this course.

FUNDING OPPORTUNITIES FOR TRAINING

New Brunswick attendees may be eligible for funding under the Canada-New Brunswick Job Grant Program. Please visit <u>http://tinyurl.com/mcftjobgrant</u> to learn more. <u>Employers</u> must apply for this and not the employee. MCFT can help you in this application process and with the final report if your funding request is approved.





	ay.	1,		26th	
DATE	TIME	MODULE	ТОРІС	INSTRUCTOR	
	7:45 – 8:30 AM	NUTRITION BREAK—CATERED (included in tuition)			
	8:30 – 9:00 AM	Introduction	Course Objectives and Schedule	 Dr. Robert Wagner, U of M CFRU Kirk MacDonald, P. ENG, NB DNR 	
	9:00 – 10:30 AM	I	Principles of Forest Vegetation Management• Silvicultural context• Principles of plant competition• Effects on long-term stand development• Costs and benefits• Site selection considerations	 Dr. Robert Wagner, U of M CFRU Dr. Doug Pitt, NRC 	
L	10:30 – 11:00 AM		NUTRITION BREAK—CATERED (incl	uded in tuition)	
Tuesday, April 26	10:30 – 11:30 AM	2	 Physical & Chemical Properties of Herbicides Types Formulations Absorption and translocation Modes and mechanisms of action 	• Dr. Dean Thompson, NRC	
	11:30 – 12:30 PM		LUNCH CAFETERIA (included in	n tuition)	
il 26	12:30 – 2:30 PM	3	 Herbicide Prescriptions, Efficacy, & Diagnosis Herbicide selection Rate and timing (site prep, release) Surfactants Total application volume choices Selectivity and crop tolerance Silvicultural efficacy Diagnosing problems and causes 	 Ron Lemin, CPS Milo Mihajlovich, MMCS 	
	2:30 – 3:00 PM		TRAVEL TIME TO SITE (included	l in tuition)	
	3:00 – 5:00 PM	IFVM Plan	 Field site visit - Start IFVM plan: Group exercise to develop comprehensive IFVM work plan for a specific forest site 	• Jasen Golding, BSc, BScF, UNB	
	6:30 – 9:00 PM		SOCIAL & DINNER		
	MARITIME	COLLECT			



A MAINE



$\Delta \setminus$	171	

MODULE TOPIC DATE INSTRUCTOR 7:45 - 8:30 AM NUTRITION BREAK—CATERED (included in tuition) Herbicide Application Technology Methods of application (aerial and groundbased) Milo Mihajlovich, MMCS 8:30 - 9:30 AM 4 Sprayer calibration Nozzles, speed, release height (best . practices) Batching 9:30 - 10:00 AM NUTRITION BREAK—CATERED (included in tuition) <u> Nednesday, Apri</u> **Quality Assurance & Risk Mitigation** • Lead - Milo Mihajlovich, Minimizing drift MMCS Drift models 10:30 - 12:00 Panel: Peter Amirault, FPL 5 GIS data uploads for application navigation . PM Ron Lemin, CPS, Mike Onboard "real-time" GPS navigation and Cunningham, EA, Renaud boom on/off data recording Bordage, JDI Site management and security 12:00 - 1:00 PM LUNCH CAFETERIA (included in tuition) Federal & State/Provincial Regulations The rule and regulation making process • Effective ways to protect riparian zones John Antworth, NBDELG 1:00 - 2:00 PM 6 and other sensitive areas Gary Fish, Maine BPC Public notifications Trends in regulation • **Toxicology & Risk Assessment** 2:00 - 4:15 PM Human Dr. Leonard Ritter, U of G (includes 15 min 7 Animal break) Role in pesticide registration process 5:00 - 6:00 PM **DINNER—CAFETERIA** (included in tuition) Jasen Golding, UNB 6:00 - 8:00 PM **IFVM Group Work**





	ay	3,	April	28th
TE	TIME	MODULE	ТОРІС	INSTRUCTOR
	7:45 – 8:30 AM		NUTRITION BREAK—CATERED (incl	uded in tuition)
	8:30 – 10:00 AM		vironmental Fate and Effects of rbicides Aquatic	• Dr. Dean Thompson, NRC
	10:00 – 10:15 AM	1	NUTRITION BREAK—CATERED (incl	uded in tuition)
	10:15 – 12:15 PM	9 W i •	Idlife and Wildlife Habitat Effects Terrestrial	Dr. Vickie Tatum, NCASI
	12:15 – 1:00 PM		LUNCH CAFETERIA (included i	n tuition)
nureday Anril 7	l:00 – 2:30 PM	Ma	egrated Forest Vegetation nagement & Alternatives to rbicides Principles of plant autecology and making vegetation management decisions Alternatives to herbicides and their effectiveness/impacts Elements of cost comparisons The Quebec experience and emerging challenges	• Dr. Nelson Thiffault, MFFPQ
Ď	2:30 – 2:45 PM	1	NUTRITION BREAK—CATERED (incl	uded in tuition)
	2:45 – 4:45 PM	Ris • • • •	k Communications Public perceptions of risk Social acceptance thresholds Roles and responsibilities of applicators (professionalism) Media relations	 Dr. William Leiss, U of O Chrystiane Mallaley, NATIONAL
	5:00 – 6:00 PM		DINNER—CAFETERIA (included	in tuition)
	6:00 – 7:00 PM		IFVM Plan Reporting	Jasen Golding, UNB





D



Presenters In order of appearance

NAME	AFFILIATION	BIO
DR. ROBERT WAGNER	University of Maine	 Henry W. Saunders Distinguished Professor in Forestry Director, Center for Research on Sustainable Forests (CRSF) & Cooperative Forestry Research Unit (CFRU) Previously: Director, School of Forest Resources, University of Maine, Orono Associate Director, Forest Bioproducts Research Institute (FBRI) Professor of Silviculture, School of Forest Resources, University of Maine, Orono, Cooperating Scientist, U.S. Forest Service, Northern Research Station.
DR. DOUG PITT	Natural Resources Canada	 Research Scientist, Quantitative Silviculture, Canadian Wood Fibre Centre, Canadian Forest Service. Adjunct professor of Silviculture and Biometrics, Lakehead University and University of Alberta. Honorary Research Associate, School of Graduate Studies, University of New Brunswick. Previously: Advisor to the Canadian Ecology Centre – Forestry Research Partnership. Operations Forester and Forest Protection Supervisor, J.D. Irving Limited.
DR. DEAN THOMPSON	Natural Resources Canada	 Research Scientist Environmental Chemistry and Ecotoxicology BSc (Wilfrid Laurier University), MSc and Ph.D. (University of Guelph) Previously Adjunct professor - Lake Superior State University, University of Guelph and University of New Brunswick – Saint John Associate Graduate Faculty – University of Guelph and University of New Brunswick – Saint John Past member of the Society of Environmental Chemistry and Toxicology, American Chemical Society, International Union of Forest Research Organizations and Canadian Amphibian and Reptile Conservation Network Associate Editor – Canadian Journal of Forest Research (1993- 1999)
FOF	COLLEGE OF COLLEGE OF NOLOGY ion Since 1946	THE UNIVERSITY OF MAINE

Presenters In order of appearance

NAME

AFFILIATION



Crop Production Services - Timberland Division

Vegetation Management Consultant

BIO



Mihajlovich Enterprises Ltd

Vegetation Management Consultant

MILO MIHAJLOVICH



University of New Brunswick

Forest Operations Program Manager

Operations Manager

Research Assistant at UNB Forester with Georgia Pacific

Previously:

JASON GOLDING, BSc, BScF



PETER AMIRAULT, MScF, BScF



Engage Agro

Forest Protection Ltd

Vegetation Management Specialist Forestry Business & Account Manager

Forest Insect & Disease Specialist with Forestry Canada

MICHAEL CUNNINGHAM, BScFE







Prese C In order of appearance

NAME	AFFILIATION	BIO
RENAUD BORDAGE	Forest Patrol LTD & JD Irving Ltd	 Chief Pilot Operations Manager
JOHN ANTWORTH	New Brunswick Department of Environment and Local Government	• Environment and Local Government Officer for Remediation and Materials Management
GARY FISH	State of Maine Department of Agriculture, Conservation and Forestry, Board of Pesticides Control	Pesticide Programs Manager
DR. LEONARD RITTER	University of Guelph	 Professor Emeritus (toxicology), University of Guelph Adjunct Professor (toxicology), Chulabhorn Research and Graduate Institutes, Bangkok, Thailand Member, United Nations WHO Joint Expert Committee on Food Additives Chair, PMRA Lindane Board of Review Chair, Council of Canadian Academies Expert Panel on the Integrated Testing of Pesticides Member, US EPA Human Studies Review Board Chair, PMRA External Advisory Panel on Essential Oil-based Personal Insect Repellents
	E COLLEGE OF	1865 THE UNIVERSITY OF MAINE

TECHNOLOGY A Leader in Forestry Education Since 1946

TATTTTTTT



Presenters In order of appearance

NAME	AFFILIATION	BIO
DR. VICKIE TATUM	National Council for Air and Stream Improvement, Inc.	• Program Manager and Scientist with NCASI's Health Effects Program since 1993. She holds a B.S. in agriculture and a Ph.D. in toxicology, both from the University of Kentucky. Her primary responsibilities are in the area of human health effects.
DR. NELSON THIFFAULT	Direction de la recherche forestière, Ministère des Forêts, de la Faune et des Parcs du Québec (Forest Research Branch, Quebec Ministry of Forests, Wildlife and Parks)	 Research Scientist, regeneration silviculture, ecology, ecophysiology Adjunct Professor, Université Laval, Université de Sherbrooke, Université du Québec en Abitibi-Témiscamingue, Université du Québec à Chicoutimi Regular Member, Centre for Forest Research
DR. WILIAM LEISS	McLaughlin Center for Population Health Risk Assessment, University of Ottawa	 Research Scientist Fellow and Past-President (1999-2001) of the Royal Society of Canada Officer in the Order of Canada. 1999 to 2005 held the NSERC/SSHRC Research Chair in Risk Communication and Public Policy in the Haskayne School of Business, University of Calgary 1994 to 1999 he held the Eco-Research Chair in Environmental Policy at Queen's University, Kingston, Ontario.
CHRYSTIANE MALLALEY BSc Biology, General	NATIONAL	• Chrystiane leads NATIONAL PR's public engagement practice in Atlantic Canada. She provides advice to private and public sector clients on the design and implementation of innovative and comprehensive strategies to communicate with, meaningfully engage, and build trust with stakeholders. The scope of her work includes major infrastructure projects, municipal planning, as well as the energy and natural resources sectors.
K FOF	COLLEGE OF SEST N O L O G Y	1865 THE UNIVERSITY OF MAINE

A Leader in Forestry Education Since 1946

CFRU

Registration Form

Name	
Employer	
Employer's Address	
	Postal Code
Business Phone	Fax
Cell Phone	E-mail
Contact Person	A REAL PROPERTY AND A REAL
Home Address	
	Postal Code
Home Phone	Home E-mail
ALL FEES /	ARE QUOTED IN CANADIAN FUNDS
	total) per participant must be paid in full, two weeks prior to the
course dates. Payment can be made by	y cheque, purchase order, debit, Visa or MasterCard.
Will you require accommodations at the Ma	uritime College of Forest Technology?
Single occupancy (\$35.00/person/night + HS	η
Double occupancy (\$25.00/person/night + H	
	offers a discount for all MCFT Events. Use code 'MCFT' when booking your 800) 561-8777. Visit http://frederictoninn.nb.ca to learn more.
room. To make reservations please can. T (c	500) 301-0777. Visit http://iredefictonini.nb.ca.to.learn more.
Please add me to your email list to r	eceive future course announcements from MCFT
Please indicate method of payment:	
Visa 🛛 Card No. <u>/ / / / /</u>	<u>/ / / / / / / / / / / / / / / / / / / </u>
Mastercard 🗆 Card No. / / / /	<u>/ / / / / / / / / / / Exp. / / / / / / / / / / / / / / / / / / /</u>
Cheque Amount enclosed	
Please email or fax your completed ap	
Todd MacPherson	pircation to:
Maritime College of Forest Technology	
1350 Regent Street Fredericton NB E3C 2G6	
Phone: (506) 458-0649 Fax: (506) 458-0652	2 E-mail: <u>ce@mcft.ca</u>
MARITIME COLLEGE O	
VA FOR FST	1865 THE UNIVERSITY OF
	MAINE
London in Forestry Education Since 1046	CERU

A Leader in Forestry Education Since 1946