

NATIONAL RAILROAD CONTRACTORS ASSOCIATION

WEED CONTROL SEMINAR

January 30-February 2, 2012

Indianapolis Marriott East

7202 East 21st Street

Indianapolis, Indiana 46219

Sponsored By:

Purdue University

and

**National Railroad
Contractors Association**

2012 NRCA WEED CONTROL SEMINAR

Session I: Initial Certification

Monday, January 30

11:00 am-1:00 pm	Registration	(Liberty Hall)
1:00-1:15 pm	Introductory Comments. <i>Harvey Holt</i>	(Salon 5-8)
1:15-1:45 pm	Railroads and Weeds. <i>Harvey Holt</i>	
1:45-2:00 pm	Break	
2:00-3:00 pm	Pretest and Review. <i>Harvey Holt</i>	
3:00-3:15 pm	Break	
3:15-4:00 pm	Plant Biology and Weed Identification. <i>Rita McKenzie</i>	
4:00-4:15 pm	Break	
4:15-5:00 pm	Herbicide Application Methods. <i>Harvey Holt</i>	
5:00-6:30 pm	Dinner for Session I	(Liberty Hall)
6:30-8:00 pm	Equipment Calibration and Worksheet. <i>Andrew Martin.</i> (Calculators suggested)	(Salon 5-8)

Tuesday, January 31

7:00-8:30 am	Breakfast for Session I	(Liberty Hall)
8:30-9:00 am	Review and Discussion. <i>Harvey Holt</i>	(Salon 5-8)
9:00-9:15 am	Break	
9:15-10:00 am	Applicator Safety. <i>Andrew Martin</i>	
10:00-10:15 am	Break	
10:15-11:00 am	Herbicide Characteristics. <i>Harvey Holt</i>	
11:00-11:15 am	Break	
11:15-12:00 pm	Herbicide Formulations. <i>Andrew Martin</i>	
12:00-1:00 pm	Lunch for Session I	(Liberty Hall)
1:00-1:45 pm	Environmental Concerns on Rights-of-Way. <i>Andrew Martin</i>	(Salon 5-8)
1:45-2:00 pm	Break	
2:00-2:45 pm	Understanding Labels and Labeling. <i>Andrew Martin</i>	
2:45-3:00 pm	Break	
3:00-3:45 pm	Label and Labeling Worksheet. <i>Andrew Martin</i>	
3:45-4:00 pm	Break	
4:00-4:30 pm	Pesticide Laws and Regulations. <i>Leo Reed</i> , Office of Indiana State Chemist	
4:30-5:00 pm	Review and Discussion. <i>Harvey Holt</i>	
5:00-6:00 pm	Dinner for Session I	(Liberty Hall)

Wednesday, February 1

7:00-8:00 am	Breakfast for Session I	(Liberty Hall)
8:00-8:30 am	Review and Discussion. <i>Harvey Holt</i>	(Salon 5-8)
8:30-8:45 am	Break	
8:45-12:00 pm	Certification Exams. <i>Leo Reed</i>	(Salon A-C)
11:30-1:00 pm	Lunch for Session I	(Liberty Hall)
12:30-2:00 pm	Supplemental Exams. <i>Leo Reed</i>	(Salon A-C)

Thursday, February 2

1:30-3:30 pm	Illinois certification exam	(Salon 5-8)
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2012 NRCA WEED CONTROL SEMINAR

Session II: Continuing Certification

Tuesday, January 31

4:00-5:00 pm **Certification and Recertification Status.** (Patriot Board Room)
Arlene Blessing

Wednesday, February 1

7:00-8:30 am Breakfast for Session II (Liberty Hall)

10:00 am-1:00 pm Registration (Liberty Hall)

11:30 am-1:00 pm Lunch for Session II (Salon 1-4)

1:00-2:00 pm **AREMA Sub-Committee 9.** *George Telesz,* (Patriot Board Room)
Nufarm, Pontoon Beach, IL

Moderator: Don Weimann, Asplundh RR Division, Willow Grove, PA (Salon 5-8)

2:00-2:15 pm **Opening Address.** *Joe Hage,* NRCA president, RWC, Inc., Westerville, OH

2:15-2:50 pm **Advanced Integrated Pest Management Using Chlorovision.** *David Bradley,*
Perceptive Robotics, Pittsburgh, PA
Dr. Bradley will compare the state of the art Chlorovision system and WeedSeeker technology to detect and treat weeds.

2:50-3:00 pm Break

3:00-3:50 pm **Railroad Vegetation Management Practices in the United Kingdom.** *Neil Strong,*
Network Rail, London, England
Dr. Strong will discuss the vegetation issues and control practices of Network Rail, which owns and operates the railroad infrastructure of the UK, while protecting the applicator and the public.

3:50-4:00 pm Break

4:00-5:00 pm **Herbicide Symptomology.** *Stephen Weller,* Purdue University
Dr. Weller uses treated plants to show how herbicides injure plants and the symptoms that are important for diagnosing plant injury.

5:30 pm Social period and buffet dinner (Liberty Hall)

Thursday, February 2

7:00-8:30 am Breakfast (Liberty Hall)

Moderator: Jeff Osburn, RWC, Inc., Westerville, OH (Salon 5-8)

8:30-9:20 am **Hoses: The Arteries of Application Equipment.** *Fred Whitford,* Purdue University
Most discussions about pesticide application equipment focus on tanks, pumps, booms, nozzles, and electronic components with little attention to hoses, which are integral parts of the spraying system on all application equipment. Applicator and public safety, and environmental damage, become very clear issues when hoses fail. Dr. Whitford will discuss how using the correct hoses and routine inspections are the cornerstones to managing these "arteries" of application equipment.

9:20-9:30 am Break

9:30-10:20 am	<p>Herbicides and Vegetation as Environmental and Applicator Safety Issues. <i>Robert Fronczak</i>, Association of American Railroads, Washington, DC Vegetation control on railroads is a federally mandated requirement and herbicides are the dominant method for control. Regulatory actions taken by EPA and the State of Wisconsin affect vegetation control chemicals in the recent past, and EPA has also implemented regulations requiring NPDES permits for pesticide applications. Mr. Fronczak will discuss the railroad industry response to those initiatives and where those issues stand. Applicators need to understand their role in the context of the industry and how they can perform their duties without undue risk to themselves, the public, and the environment.</p>
10:20-10:30 am	Break
10:30-11:20 am	<p>Herbicide Resistance Changes the Game Plan. <i>Reid Smeda</i>, University of Missouri, Columbia The development of herbicide resistance in important weed species means that herbicide programs must be adaptable and flexible, and products used will of necessity have to change. Dr. Smeda will discuss this changing dynamic of weeds and herbicides.</p>
11:20-11:30 am	Break
11:30-12:00 pm	<p>Update on Pesticide Regulations. <i>David Scott</i>, Office of the Indiana State Chemist Railroad applicators must stay current on changing regulations such as NPDES enforcement, the expanded Driftwatch program, and other states' regulations as requested.</p>
11:30-12:00 pm	CCH paperwork; adjourn
12:00-1:00 pm	Lunch (Liberty Hall)
12:00-2:00 pm	NRCA Board of Directors luncheon/business meeting (Salon A)

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This program is a continuing education activity of Purdue University,
an Equal Access/Equal Opportunity University.

Register on-line at: www.conf.purdue.edu/nrca.

SN9120/KRW/12FY

NRCA Weed Control Seminar Registration

Mail to: Purdue Extended Campus Business Services or FAX: 765-494-0567
Purdue University
Stewart Center, Room 116
128 Memorial Mall
West Lafayette, IN 47907-2034

Enroll the following person in the NRCA Weed Control Seminar, January 30-February 2, 2012.
Preregister by January 23. Photocopy this form for additional registrants.

Name _____ Title _____
Company _____ Address _____
City _____ State _____ Zip _____
Social Security number _____ Phone _____
(Required if you are claiming Lifetime Learning Tax Credit)
E-mail Address _____

	Amount
Registration for NRCA member or railroad employee @ \$275 per person	\$ _____
Registration for non-NRCA member @ \$2,000 per person	_____
TOTAL	\$ _____

Make checks payable to **Purdue University**. Payment is required upon submission of registration.

Guarantee my registration by credit card:

____ VISA ____ MasterCard ____ Discover ____ American Express

Account number

Expiration date

Authorized signature

I will attend (circle one): Session I only Session II only Both Sessions

I will take the certification exam (circle one): Yes No

I will take the Illinois certification exam (circle one): Yes No

Purdue is committed to making its programs accessible to individuals with disabilities. If you require an accommodation or special assistance for this program due to a disability, please contact us at (765) 494-2758.

NRCA Weed Control Seminar Room Reservation

Marriott Inn Room Reservation

Please reserve a room for the **NRCA Weed Control Seminar**, January 30-February 2, 2012.
(\$95/night; 1-4 people/room). Make your reservation by January 9, 2012.

Name

Company

Mailing address

City

State

ZIP Code

Telephone

E-mail

Arrive January _____ at _____ a.m./p.m. and depart January _____ at _____ a.m./p.m.

Room preference: Standard King

All Marriott properties are non-smoking.

Guarantee my reservation by credit card:

_____ VISA

_____ MasterCard

_____ Discover

_____ American Express

Account number

Expiration date

Authorized signature

Mail to: Indianapolis Marriott East
 7202 East 21st Street
 Indianapolis, IN 46219

Phone: 317-352-1231 or 800-228-9290

Fax: 317-352-9775

Email: baldwind@indymarriotteast.com

GENERAL INFORMATION

OBJECTIVES: 1) To provide railroad applicators the opportunity for reviewing and updating in order to meet the high standards of performance of both the Association and the states. 2) To help new applicators prepare for initial certification. Arlene Blessing (765-385-2073), in association with Purdue University, works to gain acceptance of this program in as many states as possible. The program contains pesticide-related material generally suitable for Continuing Certification approval in Rights-of-Way.

WHERE: The Indianapolis Marriott East, 7202 East 21st Street, is located off the Shadeland Avenue exit of I-70 East, just west of the I-465/I-70 junction on the east side of Indianapolis.

REGISTRATION: Please return the enclosed registration form by January 23, 2012. The registration fee includes conference materials, meals, and breaks.

CANCELLATION: Purdue University is not responsible for costs incurred due to cancellation.

TRAINING MATERIALS: The training materials relevant to Session I can be printed at no cost from the following web site: <http://www.nrca-railroad.com/>. The materials are password protected, which will be provided to conferees after completing registration.

CERTIFICATION EXAM: The certification exam will be given by the Office of the Indiana State Chemist. **Pre-register if you plan to take the certification exam.** License application forms for Indiana will be available after the exam. Fees will be due when you apply for your license.

HOUSING AND MEALS: Meals are included in the registration fee; lodging is not. A block of rooms is reserved at the Indianapolis Marriott East at the rate of \$95, single or double occupancy. The room block will be held until January 9, 2012. Reservations can be made by calling 317-352-1231 or 800-228-9290. Identify your reservation with the **National Railroad Contractors Association**.

AIRPORT TRANSPORTATION: The Indianapolis airport is about 20 miles west of the Marriott East. One limousine service is Carey Indiana 800-888-INDY (out of state only) or 317-241-7100. The fare from the airport to the hotel is about \$33 per person (share ride); tip not included. This is cheaper than taxi fare. Carey Indiana is located in the Ground Transportation Center, across the street from luggage carousel #2, and is open 24 hours a day.

TAX DEDUCTION FOR EDUCATIONAL EXPENSES: Treasury regulation sec. 1.162.5 permits an income tax deduction for educational expenses (registration fees, cost of travel, meals, and lodging) undertaken to: (1) maintain or improve skills required in one's employment or other trade of business, or (2) meet express requirements of an employer or a law imposed as a condition to retention of employment, job status, or rate of compensation.

ADDITIONAL INFORMATION: For registration or any other information, contact:

Kathy Walters	765-494-2758
Conference Division	800-359-2968
Purdue University	fax: 765-494-0567
Stewart Center, Room 116	E-mail: kw@purdue.edu
128 Memorial Mall	
West Lafayette, IN 47907-1586	