NATIONAL RAILROAD CONTRACTORS ASSOCIATION

WEED CONTROL SEMINAR

January 27-30, 2014

Indianapolis Marriott East
7202 East 21st Street
Indianapolis, Indiana 46219

Sponsored By:

Purdue University
and

National Railroad Contractors Association
<table>
<thead>
<tr>
<th>Time</th>
<th>Session I: Initial Certification</th>
</tr>
</thead>
<tbody>
<tr>
<td>11:00 am-1:00 pm</td>
<td>Registration</td>
</tr>
<tr>
<td>1:00-1:15 pm</td>
<td>Introductory Comments. Harvey Holt</td>
</tr>
<tr>
<td>1:15-1:45 pm</td>
<td>Railroads and Weeds. Harvey Holt</td>
</tr>
<tr>
<td>1:45-2:00 pm</td>
<td>Break</td>
</tr>
<tr>
<td>2:00-3:00 pm</td>
<td>Pretest and Review. Harvey Holt</td>
</tr>
<tr>
<td>3:00-3:15 pm</td>
<td>Break</td>
</tr>
<tr>
<td>3:15-4:00 pm</td>
<td>Plant Biology and Weed Identification. Rita McKenzie</td>
</tr>
<tr>
<td>4:00-4:15 pm</td>
<td>Break</td>
</tr>
<tr>
<td>4:15-5:00 pm</td>
<td>Herbicide Application Methods. Harvey Holt</td>
</tr>
<tr>
<td>5:00-6:30 pm</td>
<td>Equipment Calibration and Worksheet. Andrew Martin.</td>
</tr>
<tr>
<td>6:30-8:00 pm</td>
<td>Dinner for Session I</td>
</tr>
</tbody>
</table>

**Tuesday, January 28**

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

**Wednesday, January 29**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session I: Initial Certification</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:00-8:00 am</td>
<td>Breakfast for Session I</td>
</tr>
<tr>
<td>8:00-8:30 am</td>
<td>Review and Discussion. Harvey Holt</td>
</tr>
<tr>
<td>8:30-8:45 am</td>
<td>Break</td>
</tr>
<tr>
<td>8:45-12:00 pm</td>
<td>Indiana Certification Exam. Leo Reed</td>
</tr>
<tr>
<td>11:30-1:00 pm</td>
<td>Lunch for Session I</td>
</tr>
<tr>
<td>12:30-2:00 pm</td>
<td>Supplemental Exams. Reid Smeda and Arlene Blessing</td>
</tr>
</tbody>
</table>

**Thursday, January 30**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session I: Initial Certification</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:30-4:30 pm</td>
<td>Illinois certification exam</td>
</tr>
</tbody>
</table>
2014 NRCA WEED CONTROL SEMINAR

Session II: Continuing Certification

Tuesday, January 28

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

Wednesday, January 29

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 (Liberty Hall)
1:00-2:00 pm  AREMA Sub-Committee 9. Wayne Hug, DeAngelo Brothers, Inc., Hazleton, PA
               (Patriot Board Room)

Moderator:  David Stokka, Right-A-Way Applicators, Cooperstown, ND  (Salon 5-8)

2:00-2:10 pm  Opening Address. Duane Nelson, NRCA president, DeAngelo Brothers, Inc.,
               Huntington, WV

2:10-3:00 pm  Integrating Herbicide Toxicity and Exposure. Dr. Lisa Corey, Intertox, Inc., Seattle,
               WA
               Dr. Corey will discuss how humans commonly come into contact with herbicides
               through occupational exposures and unintentional sources such as drift and
               transfer, and why it is important to understand what the potential health risks are
               due to these exposures. Risk assessment is the process by which exposures and
               toxicity are considered and compared to known health effects. Using a risk
               assessment allows regulators, employers, and individuals the opportunity to make
               informed decisions regarding exposure and personal protective equipment.

3:00-3:10 pm  Break

3:10-4:00 pm  Soil Surfactants and Herbicide Efficacy. Norman Wagoner, Agrilead, Inc., Alleman,
               IA
               Mr. Wagoner will discuss soil, water, herbicide properties, and characteristics of soil
               surfactants that influence herbicide performance. Utilizing these advances in
               herbicide technologies, you can expect to understand factors that support success
               for herbicide applications.

4:00-4:10 pm  Break

4:10-5:00 pm  Herbicide Modes of Action and Their Symptomology. Dr. Reid Smeda, University of
               Missouri, Columbia, MO and Dr. Steve Weller, Purdue University, W. Lafayette, IN
               Drs. Smeda and Weller use treated plants to show how herbicides injure plants and
               the symptoms that are important for diagnosing plant injury and detecting herbicide
               resistance.

5:00 pm  Social period and buffet dinner (Liberty Hall)
Thursday, January 30

7:00-8:30 am  Breakfast (Liberty Hall)
Moderator: Jason Rumble, RSI Vegetation Management, Zillah, WA (Salon 5-8)

8:30-9:20 am  Understanding Adjuvants and the Water Droplet. Dr. Fred Whitford, Purdue University, West Lafayette, IN
Dr. Whitford's presentation provides a discussion on how a class of products, known as adjuvants, are used to enhance herbicide performance on target pests. Thousands of adjuvants are used with pesticide applications around the world creating the misconception that all adjuvants essentially perform the same and their importance is discounted. The goal of this presentation is to highlight the function and value of adjuvants so that applicators can make the perfect spray application.

9:20-9:30 am  Break

9:30-10:20 am  Understanding Confusing and Conflicting Issues on Product Labels. Dr. Fudd Graham, Auburn University, Auburn, AL.
Dr. Graham's interactive presentation will lead you through the complexities of interpreting labels. The label is a legal document and often reads like one.

10:20-10:30 am  Break

10:30-11:00 am  Recipe in a Bag - Customized Dry Product Mixes. Dr. Larry Gaultney, DuPont, Wilmington, DE
Dr. Gaultney will explain how PrecisionPac enables customized mixes of multiple proprietary and generic dry flowable products for uniform combinations without field measuring. Recordkeeping and traceability capabilities are added benefits.

11:00-11:30 am  Update on Pesticide Regulations. David Scott, Office of the Indiana State Chemist, West Lafayette
Railroad applicators must stay current on changing regulations such as NPDES enforcement, the expanded Driftwatch program, and other states’ regulations as necessary.

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)

1:30-4:30 pm  Supplemental certification exams (Salon 6-8)

* * * * * * * * * *

This program is a continuing education activity of Purdue University, an Equal Access/Equal Opportunity University.
NRCA Weed Control Seminar Registration

Mail to: Purdue Extended Campus Business Services
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 27-30, 2014.
Preregister by January 20. 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 @ $325 per person $__________
Registration for non-NRCA member @ $2,000 per person __________
TOTAL $___________

Make checks payable to Purdue University. Payment required with 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 Indiana certification exam Wednesday, January 29 (circle one):  Yes  No
I will take the Illinois certification exam Thursday, January 30 (circle one):  Yes  No
I will take supplemental certification exams Wednesday, January 29 (circle one):  Yes  No
NRCA Weed Control Seminar Room Reservation
Marriott Inn Room Reservation


Name

Company

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:   dampierj@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) 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 20, 2014. The registration fee includes conference materials, meals, and breaks.

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

TRAINING MATERIALS: Training materials for Session I, Core and Category 6 manuals, can be obtained from the Media Distribution Center, Purdue University: 888-398-4636.

CERTIFICATION EXAMS: The Indiana Certification exam will be given by the Office of the Indiana State Chemist. Pre-register if you plan to take the Indiana certification exam. License application forms for Indiana will be available after the exam. Fees are due when you apply for your license. Other state exams will be offered after lunch on Wednesday. The Illinois certification exam will be offered after lunch Thursday if enough people pre-register for it.

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 $99, single or double occupancy. The room block will be held until January 6, 2014. 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 $35 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 baggage claim area and across from Avis; 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: 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. 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