Agricultural Medicine: Occupational and Environmental Health for Rural Health Professionals

College of Public Health Building, 145 N. Riverside Dr., Iowa City, IA, 52242

June 8-12, 2015

Session I: June 8-10  Session II: June 10-12
Monday-Wednesday  Wednesday-Friday

Participants may attend one or both sessions. Individuals taking the course for college credit must complete both sessions.

Jointly provided by The University of Iowa College of Public Health ♦ The Roy J. and Lucille A. Carver College of Medicine ♦ The College of Nursing ♦ Great Plains Center for Agricultural Health ♦ Heartland Center for Occupational Health and Safety

Statement of Purpose: To provide the information and skills needed to enable safety and health professionals to anticipate, recognize, and prevent occupational illnesses and injuries among members of the agricultural community. Successful completion of this course allows qualified participants to join AgriSafe® as a Certified Member. AgriSafe® benefits include clinical resources, technical assistance, continuing education, and use of the trademarked name AgriSafe® in promoting agricultural health services.

Intended Audience: Appropriate for safety and health managers, graduate students, nurses, physicians, veterinarians, and anyone interested in the unique safety and health needs of rural and agricultural communities.

Training Director: Diane Rohlman, MA, PhD, Associate Professor, Department of Occupational and Environmental Health, University of Iowa, College of Public Health.

Educational Objectives

Upon completion of Session I, the participant should be able to:
• Describe the magnitude and impact of injury and illness among agricultural workers.
• Utilize health and safety principles and paradigms including principals of prevention, hazard identification and assessment, risk assessment, and the exposure-outcome continuum.
• Describe the magnitude and impact of transportation-related injury including those associated with tractors, ATVs/UTVs, commodity transportation, and other powered implements.
• Identify risk factors for injury and fatality associated with agricultural tasks.
• Identify emergency rescue procedure for various agricultural hazards/events.
• Discuss the acute and chronic health effects of pesticide exposure including the ability to recognize acute carbamate and organophosphate toxicity.
• Apply principles of prevention to a potential farm hazard scenario.
• Have familiarity with common respiratory effects of agricultural exposures, including rhinitis, airways disease, hypersensitivity pneumonitis, acute irritant conditions and organic dust toxic syndrome.
• Outline hazards associated with livestock production and hazard control practices.
• Identify routes of disease transmission to animal and human populations.

Upon completion of Session II, the participant should be able to:
• Describe the magnitude and impact of skin disease among agricultural workers.
• Describe factors in the agricultural workplace that lead to increased psychosocial stress.
• Discuss the NIOSH Total Worker Health Program and describe ways it can enhance the safety and health of agricultural workers.
• Develop awareness of how agricultural workers are exposed to risk factors for upper extremity and low back musculoskeletal disorders.
• Describe characteristics of the farm population that create challenges in prevention.
• Identify hazards associated with farm equipment and potential injury or illness.
• Describe physical agent exposures experienced by agricultural workers and the associated health risks.
• Identify at least two cancers for which the agricultural population is at decreased/increased risk.
• Describe a rural medicine practice and how it compares to an urban general practice, addressing access to care, quality of care, rural hospitals and systems of care.
• Describe the role of national and regional organizations in promoting rural health and agricultural medicine.
Continuing Education Credit

Physicians
This activity has been planned and implemented in accordance with the Essential Areas and Policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint providership of the University of Iowa Roy J. and Lucille A. Carver College of Medicine and the University of Iowa College of Public Health. The University of Iowa Carver College of Medicine is accredited by the ACCME to provide continuing medical education for physicians. The University of Iowa Carver College of Medicine designates Session I of this live activity for a maximum of 17.75 AMA PRA Category 1 Credits™, and Session II of this live activity for a maximum of 19.5 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

DISCLOSURE POLICY: Everyone in a position to control the content of this educational activity will disclose to the CME provider (University of Iowa Carver College of Medicine) and to attendees all relevant financial relationships with any commercial interests. They will also disclose if any pharmaceuticals or medical procedures and devices discussed are investigational or unapproved for use by the U.S. Food and Drug Administration (FDA).

Nurses
This program is offered in cooperation with the University of Iowa College of Nursing, an Iowa Board of Nursing approved provider, Number 1. Full time attendance at Session I will award 20.4 contact hours or 2.04 CEUs. Full time attendance at Session II will award 19.5 contact hours or 1.95 CEUs. CEU cards will not be accepted until the end of the third day of each session.

Veterinarians
Application for Continuing Education Credit has been filed with the Iowa Board of Veterinary Medicine.

EMS
This program has been approved for EMS Continuing Education Hours by the University of Iowa Health Care EMS Learning Resources Center, Iowa Approved Provider #18. The EMSLRC designates Session I of this activity for 11 formal and 6.75 optional hours, and Session II of this activity for 9 formal and 4 optional hours.

Academic Credit
Sessions I and II combined may be taken for 3 hours of graduate credit from the University of Iowa College of Public Health. Students must register for OEH:6110, Rural Health and Agricultural Medicine (Summer Session 2015).
Course Schedule

**Session I:**
Monday, June 8, 2015

7:45  Registration and Continental Breakfast
8:15  Welcome and Announcements
8:30  Overview and Introduction Diane Rohlman, MA, PhD, Course Director, Associate Professor, Department of Occupational and Environmental Health, The University of Iowa College of Public Health
9:30  Overview of Agricultural Regulations Diane Rohlman, MA, PhD
10:00 Case Study: Youth in Agriculture Diane Rohlman, MA, PhD
10:30 Occupational Safety and Health in Agriculture T. Renée Anthony, PhD, MSEE, CIH, CSP, Associate Professor, Department of Occupational and Environmental Health, The University of Iowa College of Public Health
11:30 Lunch Break
12:45 Transportation Hazards in Agriculture T. Renée Anthony, PhD, MSEE, CIH, CSP; Marizen Ramirez, PhD, Associate Professor, Department of Occupational and Environmental Health, The University of Iowa College of Public Health; Kari Harland, MPH, PhD, Senior Data Analyst, Injury Prevention Research Center, The University of Iowa
1:15 Case Study: Agricultural Environmental Health Issues Diane Rohlman, MA, PhD
4:00 Networking Reception/Research Poster Display
6:00 Recess

**Tuesday, June 9, 2015**

8:00 National Education Center for Agricultural Safety (NECAS) Site Visit (via motorcoach)
9:45 Agricultural Injury Dan Neenan, Director, NECAS
11:45 Lunch Break
12:45 Safety and Rescue Demonstrations Dan Neenan
2:45 Pesticide Exposures and Associated Health Effects Diane Rohlman, MA, PhD
4:15 Iowa Fatality Assessment & Control Evaluation (FACE) Overview and Case Study, Stephanie Leonard, MS, Occupational Safety Manager, Worksafe Iowa, Department of Occupational and Environmental Health, The University of Iowa College of Public Health
5:00 Depart for Iowa City
6:30 Recess (approximate arrival time in Iowa City)

**Wednesday, June 10, 2015**

7:45 Continental Breakfast
8:00 Occupational Diseases of the Lungs in Agricultural Settings Fred Gerr, MD, Professor, Department of Occupational and Environmental Health, The University of Iowa College of Public Health
9:30 Break
9:45 Livestock Production Brandi Janssen, PhD, Clinical Assistant Professor, Department of Occupational and Environmental Health, The University of Iowa College of Public Health
11:15 Biological Risk Assessment of Zoonotic Disease Danielle Bickett-Weddle, DVM, MPH, PhD, Associate Director, The Center for Food Security & Public Health, Iowa State University
12:45 Adjourn Session I

**Session II:**
Wednesday, June 10, 2015

1:30 Registration for those attending Session II only
2:00 Session II Overview Diane Rohlman, MA, PhD
2:15 Occupational Skin Disorders in Agriculture Fred Gerr, MD
3:30 Break
3:45 Behavioral and Emotional Health Diane Rohlman, MA, PhD
4:45 Total Worker Health Diane Rohlman, MA, PhD
5:30 Recess

**Thursday, June 11, 2015**

7:45 Continental Breakfast
8:00 Ergonomics in Agriculture Nathan Fethke, PhD, CPE, Assistant Professor, Department of Occupational and Environmental Health, The University of Iowa College of Public Health
9:15 Musculoskeletal Disorders among Agricultural Workers Fred Gerr, MD
10:30 Prevention of Agricultural Injuries and Illnesses Diane Rohlman, MA, PhD
11:45 Lunch Break
1:00 Amana Farm Tour (via motorcoach) Diane Rohlman, MA, PhD and Matt Nonnenman, PhD, CIH, Assistant Professor, Department of Occupational and Environmental Health, The University of Iowa College of Public Health
5:00 Working Dinner in Amana - Discussion of Emerging Issues and Resources Needed
6:30 Depart for Iowa City
7:00 Recess (approximate arrival time in Iowa City)

**Friday, June 12, 2015**

7:45 Continental Breakfast
8:00 Physical Agents/Use and Selection of PPE Matt Nonnenman, PhD, CIH and Carolyn Sheridan, BSN, Clinical Director, AgriSafe
10:00 Break
10:15 Cancer among Agricultural Workers Fred Gerr, MD
11:45 Lunch Break
1:00 Rural Medicine Practice Paul James, MD, MS, The University of Iowa Carver College of Medicine
2:15 Break
2:30 Agricultural Health Resources Panel Discussion
Representatives from safety and health organizations including AgriSafe, Easter Seals Rural Solutions and Assistive Technology Center, Farm Safety for Just Kids, Iowa Concern Hotline, Iowa’s Center for Agricultural Safety and Health, Iowa Department of Public Health Office of Rural Health, and Proteus, Inc.
4:00 Final Questions and Review of Session II
4:30 Adjourn

---

Casual attire is appropriate for this conference. The course includes a farm safety educational center tour and farm tour. Please plan appropriate outdoor attire, including rain gear.
The course will be held in Room C217, College of Public Health Building (CPHB) at the University of Iowa, 145 N. Riverside Drive, Iowa City, IA. Public parking is available at prevailing rates in the Newton Road Parking Ramp, across the street from CPHB.

**Directions to College of Public Health Building:** From Interstate 80, take the Dubuque Street exit (Exit 244). Travel south on Dubuque Street, turn right onto Park Road, and left onto N. Riverside Drive. At the stop, continue straight on N. Riverside Drive, take the next right on the CPHB driveway, just before the Art West Building.

**Directions to Newton Road Parking Ramp:** From Interstate 80, take the Coralville exit (Exit 242), turn right on 1st Ave., turn left on 2nd Street, take slight right onto Newton Road, travel 0.7 miles, Newton Road Parking Ramp will be on the left.

**Lodging:** Visit the Iowa City/Coralville Area Convention and Visitors Bureau for hotel/motel options at www.iowacitycoralville.org

**Parking at The University of Iowa can be challenging, please allow extra time for parking.**

Limited scholarship funds from the Iowa Department of Public Health — State Office of Rural Health are available to pay for registration fees. Contact Kay Mohling at 319-335-4219 or kay-mohling@uiowa.edu for additional information.

A Building Capacity Project: Funded in part by NIOSH grant number 5 U54 OH007548-11 to the Great Plains Center for Agricultural Health

---

**Registration Form**

**Agricultural Medicine: Occupational and Environmental Health for Rural Health Professionals**

**June 8-12, 2015**

Name ___________________________________________ Organization ___________________________

Degree _______ Specialty _________________________ Address ______________________________

City_____________ State_____ ZIP ____________ Phone ________________ E-mail _________________________

- Check if you do NOT want to be included in a class list distributed for course attendees

<table>
<thead>
<tr>
<th>Session</th>
<th>5/8/2015</th>
<th>After 5/8/2015</th>
</tr>
</thead>
<tbody>
<tr>
<td>Session I: June 8-10</td>
<td>$395</td>
<td>$445</td>
</tr>
<tr>
<td>Session II: June 10-12</td>
<td>$395</td>
<td>$445</td>
</tr>
<tr>
<td>Full Week</td>
<td>$790</td>
<td>$890</td>
</tr>
</tbody>
</table>

Total Enclosed $__________

Registration fee includes course materials, continental breakfasts, and awarding of continuing education credit.

**Registration Methods (PRE-REGISTRATION IS REQUIRED)**

Mail to: The University of Iowa Center for Conferences, 250 CEF, Iowa City, IA 52242

Fax: 319-335-4039  Web: https://www.continuetolearn.uiowa.edu/UIConferences/

**Phone:** 800-551-9029 or 319-335-4141

**Payment Methods**

- Check (make payable to The Center for Conferences)
- Charge to: □ VISA □ MasterCard

Card Number ___________________________ Exp. Date ________

Authorizing Signature _________________________________

**Refund Policy:** If circumstances arise and you are unable to attend, please notify us of your registration cancellation by June 1, 2015. You will be reimbursed $200 per session.