Agricultural Medicine
Occupational and Environmental Health for Rural Health Professionals - The Core Course

June 9-13, 2014

Session I
June 9-11, 2014
Monday–Wednesday

Session II
June 11-13, 2014
Wednesday–Friday

College of Public Health Building
Room #C217
145 N. Riverside Drive
Iowa City, Iowa

Jointly sponsored 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 • Iowa’s Center for Agricultural Safety and Health • Heartland Center for Occupational Health and Safety
Agricultural Medicine

Occupational and Environmental Health for Rural Health Professionals - The Core Course

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Statement of Purpose
To provide the information and skills needed to enable health and safety 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® Certified Member 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 special health and safety 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.

Session I Topics
- Overview of Agricultural Medicine
- Special Risk Populations in Agriculture
- Occupational Safety and Health in Agriculture
- Agricultural Injury
- Youth in Agriculture
- Occupational and Environmental Concerns of Veterinary Pharmaceuticals, Biologicals and Antibiotics
- Zoonotic Diseases
- Transportation Hazards in Agriculture
- Agricultural Environmental Health Issues
- Agricultural Respiratory Disorders
- Agricultural Pesticides and Chemicals

Session II Topics
- Agricultural Health Study and Cancer in the Farm Environment
- Skin Conditions of Agricultural Workers
- Behavioral Health Issues in the Farming Community
- Ergonomics in Agriculture
- Musculoskeletal Disorders among Agricultural Workers
- Prevention of Illness and Injury in Agricultural Populations
- Farm Tour
- Skin Cancer and Precancerous Lesions
- Injuries from Physical Agents
- Personal Protective Equipment
- Rural Healthcare Delivery
- Integration of Agricultural Occupational Health Care into an Established Health Care Organization

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

Continuing Education and Academic Credit Available to Participants

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 sponsorship 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 17.25 AMA PRA Category 1 Credit™, and Session II of this live activity for a maximum of 18.5 AMA PRA Category 1 Credit™. 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. Session I is approved for 21.9 contact hours. Session II is approved for 22.2 contact hours. Full time attendance is required for CEU award. CEU cards will not be accepted until the end of the third day of each session.

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 2014).

Training Details

Early Registration: $390/session by May 9, 2014
Late Registration: $440/session May 10 - 27, 2014

Fee includes course materials, continental breakfasts, barbeque dinner, and awarding of continuing education credit.

The University of Iowa prohibits discrimination in employment, educational programs, and activities on the basis of race, national origin, color, creed, religion, sex, age, disability, veteran status, sexual orientation, gender identity, or associational preference. The University also affirms its commitment to providing equal opportunities and equal access to University facilities. For additional information contact the Office of Equal Opportunity and Diversity, 319-335-0705. Individuals with disabilities are encouraged to attend all University of Iowa sponsored events. If you are a person with a disability who requires an accommodation in order to participate in this program, please contact Kay Mohling in advance at (319) 335-4219.
**Schedule of Events**

**Monday, June 9, 2014**

8:00  Occupational and Environmental Concerns of Veterinary Pharmaceuticals, Biologicals, and Antibiotics (Kelley J. Donham, MS, DVM, Professor Emeritus, Department of Occupational and Environmental Health, The University of Iowa College of Public Health)

9:15  Break

9:45  Zoonotic Diseases (Kerry Leedom Larson, DVM, MPH, PhD, Veterinary Specialist, The Center for Food Security & Public Health, Iowa State University, and Danielle Bickett-Weddle, DVM, MPH, PhD, Associate Director, The Center for Food Security & Public Health, Iowa State University)

10:00 Lunch Break

10:15 Case Study: Agricultural Environmental Health Issues (Diane Rohlman, MA, PhD)

11:00 Recess

11:45 Lunch Break

12:00 pm Continental Breakfast

**Tuesday, June 10, 2014**

8:00  Transportation Hazards in Agriculture (T. Renée Anthony, PhD, MSEE, CH, CSP; Charles Jennissen, MD, Clinical Associate Professor of Emergency Medicine, Clinical Associate Professor of Pediatrics, The University of Iowa Carver College of Medicine; and Stephanie Leonard, MS, Occupational Safety Manager, Worksafe Iowa, The University of Iowa College of Public Health)

9:45  Break

11:00 Lunch Break

11:45 Case Study: Agricultural Environmental Health Issues (Diane Rohlman, MA, PhD)

12:00 pm Continental Breakfast

**Wednesday, June 11, 2014**

8:00  Agricultural Respiratory Disorders (Fred Gerr, MD, Professor, Department of Occupational and Environmental Health, The University of Iowa College of Public Health)

10:00 Break

10:15 Agricultural Pesticides and Chemicals (Diane Rohlman, MA, PhD)

11:45 Questions and Review of Session I (Diane Rohlman, MA, PhD)

12:00 Adjourn Session I

12:45 pm Lunch Break

11:45 Registration for those attending Session II only

1:00 pm Continental Breakfast

1:15 Session II Overview (Diane Rohlman, MA, PhD)

1:30 Agricultural Health Study and Cancer in the Farm Environment (Charles Lynch, MD, MS, PhD, Professor, Department of Epidemiology, Medical Director & Principal Investigator of the State Health Registry of Iowa; Iowa Director of the Agricultural Health Study; Leader, Cancer Epidemiology Program of Holden Comprehensive Cancer Program)

2:45 Skin Conditions of Agricultural Workers (Fred Gerr, MD)

3:45 Break

4:00 Behavioral Health Issues in the Farming Community (Diane Rohlman, MA, PhD)

5:00 Recess

**Thursday, June 12, 2014**

7:45 am Continental Breakfast

8:00 Ergonomics in Agriculture (Nate 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 Break

10:45 Prevention of Illness and Injury in Agricultural Populations (Diane Rohlman, MA, PhD)

11:45 Lunch Break

1:15 Farm Tour (Diane Rohlman, MA, PhD, Kelley J. Donham, MS, DVM, and Rich Gassman, BS, Safety Director, Amana Farms, Inc.)

2:15 Barbeque Dinner at Farm (approximate arrival time in Iowa City)

5:00 Recess

**Friday, June 13, 2014**

7:45 am Continental Breakfast

8:00 Injuries from Physical Agents/ Use and Selection of Personal Protective Equipment (Matthew Nonnenmann, MS, PhD, and Carolyn Sheridan, BSN, Clinical Director, AgriSafe Network)

10:00 Break

10:15 Skin Cancer and Precancerous Lesions (Christopher J. Arpey, MD, Department of Dermatology, Mayo Clinic - Rochester)

11:45 Lunch Break

1:15 Rural Healthcare Delivery (Paul James, MD, MS, Head, Department of Family Medicine, University of Iowa Carver College of Medicine)

2:15 Agricultural Occupational Health Care: Integration into an Established Health Care Organization (Carolyn Sheridan, BSN, and Shalome Tonelli, RN, MSN, Director, Rural Health and Safety Clinic of Greater Johnson County)

3:00 Break

3:30 Agricultural Health Resources Panel Discussion (Representatives from AgriSafe, Easter Seals, Farm Safety For Just Kids, Proteus, and the Rural Health and Safety Clinic of Greater Johnson County)

4:45 Final Questions and Review of Session II (Diane Rohlman, MA, PhD)

5:00 Adjourn

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@uiowa.edu or visit http://cph.uiowa.edu/gpcah/training.

Contact Kay Mohling at 319.335.4219 or kay-mohling@uiowa.edu for additional course information. http://cph.uiowa.edu/gpcah/training
Educational Objectives

Upon completion of Session I, the participant should be able to:

• Describe the general demographic characteristics of rural populations in the US and identify agricultural populations with special risks.
• Explain foundational health and safety principles, including the scientific basis of prevention, hazard identification, evaluation and control, basic risk assessment, and exposure mitigation methods.
• Describe risk factors associated with agricultural transportation, and identify key approaches to protect workers from injury.
• Identify the special risks to youth in agricultural populations.
• Describe the occupational and public health consequences of veterinary pharmaceuticals, antibiotics, hormones, and genetically modified organisms used in agriculture.
• List major zoonotic infections, including the symptoms, diagnosis, treatment, and prevention options.
• Describe the major sources of fatal and nonfatal injuries in agricultural populations, and the challenges of agricultural rescue operations.
• Apply knowledge gained from course presentations during case-based discussions of rural environmental health issues.
• Discuss respiratory disorders commonly found among agricultural workers, and identify symptoms, diagnosis, treatment, and prevention options.
• Describe the major types of pesticides, insecticides, and herbicides commonly used in agriculture, their mechanism of action, and degree of toxicity.

Upon completion of Session II, the participant should be able to:

• Compare the cancer patterns between rural and urban populations, and between farm and general populations.
• Discuss agricultural skin diseases and understand the principles of prevention of agricultural skin conditions.
• Discuss the psychosocial stressors experienced by members of the agricultural community.
• Describe agricultural risk factors for upper extremity musculoskeletal disorders (UEMSD) and low back musculoskeletal disorders (LBMSD).
• Describe the characteristics and types of UEMS and LBMSD, and understand the principles of evaluation, treatment, and prevention.
• Describe the major source of injuries, illnesses, and fatalities in agricultural populations and discuss methods of prevention.
• Identify specific agricultural hazards on a local farm and discuss prevention options.
• Describe the signs, symptoms, causes, and prevention strategies of skin cancer in rural residents.
• Describe the sources of excess noise, vibration, and temperature in agricultural activities and identify personal protective devices and methods of injury prevention.
• Describe the major trends and unique problems of health care delivery in rural areas.
• Discuss the components of a comprehensive agricultural health service.
• Describe the role of major organizations and community based programs in promoting rural health and agricultural medicine.

Registration Form

Agricultural Medicine
Occupational and Environmental Health for Rural Health Professionals - The Core Course
June 9-13, 2014

Name__________________________ ____________________________
Organization______________________________ ____________________________
Degree___________ Specialty______________________________ ____________________________
Address______________________________ ____________________________
City______________________________ State_________ ZIP __________
Phone______________________________ E-mail ____________________________

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

Registration Information

On or before $__________ After $__________

Session I June 9-11 □ $390 □ $440
Session II June 11-13 □ $390 □ $440
Full Week June 9-13 □ $780 □ $880

Total Enclosed $ ________

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

Registration Methods

PRE-REGISTRATION IS REQUIRED

You may register by the following methods:

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

Telephone:  Fax:
800.551.9029  319.335.4039
319.335.4141

Web:  https://www.continuetolearn.uiowa.edu/UIConferences/

If you have questions regarding registration, please call The Center for Conferences at 800.551.9029 or email conferences@uiowa.edu.

Payment Method

□ 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, 2014. You will be reimbursed $200 per session.

Location

The course will be held in Room #C217, College of Public Health Building (CPHB) at the University of Iowa, located at 145 N. Riverside Drive, Iowa City, IA. Public parking is available at prevailing rates in the Newton Road Parking Ramp, across the street from the 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 Avenue, turn left on 2nd Street, take slight right onto Newton Road, travel 0.7 miles, Newton Road Parking Ramp will be on the left.

Visit the Iowa City/Coralville Area Convention and Visitors Bureau at www.iowacitycoralville.org for lodging options.

Casual attire is appropriate for this conference. Session II will include a farm tour, please plan appropriate outdoor attire, including rain gear.

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