



# Dairyland Initiative Workshops

November 12, 13 and 14 • La Crosse, WI

## Improving Calf Barn Air Quality through Positive Pressure Tube Systems and Barn Design

Wednesday, Nov. 12 • 6.9 CE credits

As many dairies move away from hutches and into calf barns, positive pressure tube systems have emerged as a basic tool to improve respiratory health in calf barns. **Dr. Ken Nordlund** will present on the deficits of common ventilation systems in calf barns, management of air quality and cold stress to minimize respiratory disease in calves through building design and management, and teach principles of positive pressure tube systems.

**Dr. Rebecca Brotzman** and The Dairyland Initiative staff will lead participants through hands-on exercises to learn to use the **Positive Pressure Tube Calculator** to create specifications for example barns, and will be listed on **The Dairyland Initiative website** as trained consultants in positive pressure tube design for calf barns following the workshop. Participants will also leave this workshop with field-ready skills to improve respiratory health in calf barns.

## Positive Pressure Tube Design for Ventilation & Heat Abatement of Milking Center Holding Areas

Thursday, Nov. 13 • 6.9 CE credits

It is common practice to combine moving air and soaking for effective heat abatement, yet holding areas remain the hottest spot on the dairy. **Drs. Ken Nordlund and Nigel Cook** will present problems in holding area cooling, and how positive pressure tube systems provide a lower energy, effective solution for heat abatement.

Participants will learn how to use the Dairyland Initiative's **Positive Pressure Tube Calculator** with hands-on help from The Dairyland Initiative staff to assist in learning the program through design examples. Following the workshop, participants will be listed on **The Dairyland Initiative website** as trained consultants in positive pressure tube design for holding area heat abatement.

## Planning New & Remodeling Existing Housing for Dairy Cows

Friday, Nov. 14 • 6.9 CE credits

From basic farm and barn layout issues to the details of stall design, so many aspects of building or remodeling a dairy barn can affect cow well-being and performance, ease of management, and a farm's bottom line.

Using **The Dairyland Initiative** website that combines research with clinical experience to provide practical recommendations for barn design, **Dr. Nigel Cook** will walk through the steps to create facilities that make your cows happy, healthy and productive. Participants will learn to use **The Dairyland Initiative's** partial budget calculators to show that the decision makes economic sense while keeping cow comfort in mind. Participants will also work with others from across the industry to design an "ideal barn" using the concepts learned from the day's presentation.

*The Dairyland Initiative is Sponsored by:*





## Positive Pressure Tube Systems for Improved Ventilation in Calf Barns • Nov. 12

|          |  |
|----------|--|
| 8:30 am  | Registration open. Light continental breakfast & coffee reception                          |
| 9:00 am  | Introduction and overview of the workshop materials  |
| 9:15 am  | Summary of research and ventilation problems leading to PPVT systems                       |
| 10:00 am | Introductions, staff and participants  |
| 10:15 am | Break  |
| 10:30 am | Principles of air diffusion tube design  |
| 11:15 am | Spreadsheet orientation & Problem Set No. 1: Design a tube system for barn A, step by step |
| 11:50 am | Introduce ventilation measurement and troubleshooting tools                                |
| 12:00 pm | Lunch (provided); Fogger demonstration outside   |
| 1:00 pm  | Challenges and issues in designing tube systems  |
| 1:45 pm  | Problem Set No. 2: Design a tube system for Barn B; review and discussion                  |
| 2:30 pm  | Break  |
| 2:45 pm  | Problem Set No. 3: Design a system for Barn C; review and discussion                       |
| 3:30 pm  | Presenting recommendations to clients  |
| 4:00 pm  | Concluding remarks & questions   |
| 4:30 pm  | Adjourn  |

Participants must **bring a computer** that can run an **Excel spreadsheet.**



## Positive Pressure Tube Systems for Holding Area Heat Abatement • Nov. 13

|          |  |
|----------|--|
| 8:30 am  | Registration open. Light continental breakfast & coffee reception                          |
| 9:00 am  | Introduction and overview of the workshop materials  |
| 9:15 am  | Heat stress and cow behavior   |
| 10:00 am | Introductions, staff and participants  |
| 10:15 am | Break  |
| 10:30 am | Summary of research and problems with traditional fan use for heat                         |
| 11:15 am | Principles of air diffusion tube design  |
| 11:50 am | Challenges and issues in designing tube systems  |
| 12:00 pm | Lunch (provided)   |
| 1:00 pm  | Spreadsheet orientation & Problem Set No. 1: Design a tube system for barn A, step by step |
| 1:45 pm  | Problem Set No. 2: Design system for Barn B; review and discussion                         |
| 2:30 pm  | Break  |
| 2:45 pm  | Problem Set No. 3: Design a system for Barn C  |
| 3:30 pm  | Presenting recommendations to clients  |
| 4:00 pm  | Concluding remarks & questions   |
| 4:30 pm  | Adjourn  |

Participants must **bring a computer** that can run an **Excel spreadsheet.**



## Planning New and Remodeling Existing Dairy Cow Housing • Nov. 14

|          |   |
|----------|---|
| 8:30 am  | Registration open. Light continental breakfast & coffee reception                     |
| 9:00 am  | Introduction and overview of the workshop   |
| 9:15 am  | Constructing New and Remodeling Old Adult Cow Facilities, Part 1                      |
| 10:30 am | Introductions, staff and participants   |
| 10:45 am | Break   |
| 11:00 am | Sand vs. Mattress, Stall Remodeling and Transition Cow Index™ partial budgeting tools |
| 11:15 pm | Constructing New and Remodeling Old Adult Cow Facilities, Part 2                      |
| 12:00 pm | Lunch (provided)  |
| 1:00 pm  | Barn plan exercise  |
| 2:45 pm  | Break   |
| 3:00 pm  | Continue working on barn plan exercise  |
| 3:30 pm  | Review and discuss barn plans   |
| 4:15 pm  | Concluding remarks & questions  |
| 4:30 pm  | Adjourn   |

Participants must **bring a computer** that can run an **Excel spreadsheet** to **Wednesday's** and **Thursday's** workshops. Computers are optional for Friday's workshop.



Free Wi-Fi will be available, but is not required.



### Location

#### Stoney Creek Inn

3060 S Kinney Coulee Rd., Onalaska, WI 54650

The Stoney Creek Inn is conveniently located off of I-90 (Exit 5) two hours northwest of Madison, and is situated near the scenic banks of the Mississippi River.

### Transportation

[Click here](#) for driving directions from your location.

**The La Crosse Regional Airport, Minneapolis-St. Paul International Airport, and Rochester International Airport** serve the La Crosse/Onalaska area.

### Lodging

Participants are responsible for making their own lodging arrangements, if needed. Lodging is available at the Stoney Creek Inn. A block of rooms is being held for workshop participants until October 17, 2014, \$70 for a standard king or queen. Call 1-800-659-2220 to make your reservation and use the reference code "Dairyland Initiative" to receive the discounted rate. Other local accommodations can be found at [www.explorelacrosse.com](http://www.explorelacrosse.com).



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## REGISTRATION

Registration is limited to 40 seats in each workshop

- \$325 Nov. 12: Improving Calf Barn Air Quality through Positive Pressure Tube Systems and Barn Design
- \$325 Nov. 13: Positive Pressure Tube Design for Ventilation & Heat Abatement of Milking Center Holding Areas
- \$275 Nov. 14: Planning New & Remodeling Existing Housing for Dairy Cows
- \$600 Nov. 12 & 13: Positive Pressure Tube Design for Calf Barns **AND** Milking Center Holding Areas
- \$550 Nov. 13 & 14: PPT Design for Milking Center Holding Areas **AND** Planning/Remodeling Dairy Cow Housing
- \$550 Nov. 12 & 14: PPT Design for Calf Barns **AND** Planning/Remodeling Dairy Cow Housing
- \$850 Entire 3-Day Program

First Name: \_\_\_\_\_ Last Name: \_\_\_\_\_

Company: \_\_\_\_\_

Address, Street/PO Box: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ ZIP: \_\_\_\_\_

Phone: (\_\_\_\_\_) \_\_\_\_\_ Fax: (\_\_\_\_\_) \_\_\_\_\_

Email: \_\_\_\_\_

**[ ] VETERINARY PROFESSIONALS: Check here if you would like to receive continuing education credit for attending these sessions. Each day is worth 6.9 credits.**

### Register by Phone, FAX or Mail



**Phone:** Karl Olson (608) 265-5206  
(Credit card information required)



**On-Line:** [www.vetmed.wisc.edu/ce](http://www.vetmed.wisc.edu/ce)  
(Credit card information required)



**Fax:** Karl Olson (608) 890-4821  
(Credit card information required)



**Mail:** School of Veterinary Medicine  
Continuing Education  
2015 Linden Dr.  
Madison, WI 53706-1102

#### Payment Method:

- Check enclosed (payable to: SVM)
- MasterCard     Visa     Discover Card

Cardholder Name: \_\_\_\_\_

Card # \_\_\_\_\_

Amount to be Charged: \$ \_\_\_\_\_ Exp. Date: \_\_\_\_\_

**Program questions may be directed to:**  
Courtney Halbach, Associate Instructional Specialist  
The Dairyland Initiative  
(608) 262-6800  
[chalbach@wisc.edu](mailto:chalbach@wisc.edu)

**Registration, Transportation & Accommodation questions may be directed to:**  
Karl Olson, Continuing Education Program Assistant  
(608) 265-5206  
[olsonk@vetmed.wisc.edu](mailto:olsonk@vetmed.wisc.edu)