

# National Poultry Ventilation School



**October 5 & 6**

**St. Paul Campus  
University of Minnesota**

**Presented by the Departments of:**  
**ANIMAL SCIENCE**  
**BIOSYSTEMS & AG ENGINEERING**  
**VETERINARY PATHOBIOLOGY**



University of Minnesota  
Veterinary Outreach Programs  
1365 Gortner Ave., 440 VMC  
St. Paul, MN 55108-1016

[www.cvm.umn.edu/outreach](http://www.cvm.umn.edu/outreach)

## AUDIENCE

- ◆poultry farm owners
- ◆managers and personnel
- ◆service representatives
- ◆allied industry

## YOU WILL LEARN

Basic understanding:

- ◆Ventilation principles
- ◆Ventilation and flock performance
- ◆Ventilation and air emissions
- ◆Operation and maintenance of equipment
- ◆Ventilation problem solving

## INSTRUCTORS

- ◆David Burkel Jr., Burkey Turkey Farms
- ◆Mike Czarick, University of Georgia
- ◆Dave Halvorson, University of Minnesota
- ◆Carl Heeder, Jennie-O Turkey Store
- ◆Jacquie Jacob, University of Minnesota
- ◆Larry Jacobson, University of Minnesota
- ◆Kevin Janni, University of Minnesota
- ◆Gary Messer, Jennie-O Turkey Store
- ◆Sally Noll, University of Minnesota
- ◆Roland Vandelar, Install The Best, Canada
- ◆Gary Weckwerth, Gillis Ag
- ◆Hongwei Xin, Iowa State University

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## PROGRAM

### TUESDAY SESSION - FUNDAMENTALS

8:00 a.m.  
●Poultry Response to Environmental Conditions, Sally Noll  
●Minimum Ventilation Principles, Kevin Janni

9:30 Break

10:00 Case Study/Discussion  
Poultry Ventilation Systems - Overview, Mike Czarick

12:00 Lunch

1:00 p.m. Ventilation System Components, Mike Czarick  
●Using Controllers  
●Managing Air Inlets

2:00 Laboratory Breakout sessions (concurrent)  
●Monitoring Ventilation Operations, Larry Jacobson  
●Monitoring Environmental Conditions, Hongwei Xin  
●Fan and Static Pressure Relationships, Kevin Janni

3:00 Break

3:30 Laboratory Breakout sessions-Continued

4:30 Adjourn

### WEDNESDAY SESSION - APPLICATIONS

8:00 a.m.  
Ventilation System Applications  
●Mechanical – Cage Production Systems, Hongwei Xin  
●Mechanical – Litter Production Systems, Gary Weckwerth  
●Mechanical/Natural Ventilation – Litter Production Systems, Roland Vandelaar

9:30 Break

10:00 Manure/Litter Management  
●Ventilation and manure/litter condition, Kevin Janni  
●Use of litter amendments, Carl Heeder  
●Managing litter and fuel costs, David Burkel, Jr.

11:30am - Case studies/Species Group Breakout Sessions  
(Turkeys, Broilers, Layers)

12:00 Lunch

1:00  
●Maintenance and trouble shooting equipment performance, Gary Messer  
●Poultry Industry and Ammonia Emissions, Hongwei Xin

2:00 Case studies/Species Group Breakout Sessions

2:30 Break

3:00 Seasonal aspects of ventilation  
●Relationships of temperature, humidity, air velocity and bird response, Hongwei Xin  
●Evaporative cooling, Mike Czarick

Conclusion/Evaluation

**Receipt of payment and hotel information  
will be mailed to confirmed registrants.**

**Cancellation Policy**  
by September 24 - 100% refund  
after September 24 - 50% refund

The University of Minnesota is an equal opportunity educator & employer.

## REGISTRATION

Space is limited to 80.

Pre-registration required by September 24.

Dr./Mr./Ms. (please circle)

Name \_\_\_\_\_

Company \_\_\_\_\_

Address \_\_\_\_\_

City/State/Zip \_\_\_\_\_

Telephone \_\_\_\_\_

Fax \_\_\_\_\_

E-mail \_\_\_\_\_

**Fee \$275 per person**

### Payment

**check** (payable to the University of Minnesota)

**Visa, Mastercard, Discover**

Acct: \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_

Exp. Date \_\_ / \_\_

### Send Payment & Registration To:

**Ventilation School**

**1365 Gortner Ave., 440 VMC**

**St. Paul, MN 55108-1016**

**Telephone: 612.624.3434 or 800.380.8636**

**Fax: 612.625.5755**

**Email: [vop@umn.edu](mailto:vop@umn.edu)**