

# Variable Frequency Drives for Dairy Farms

## January 11, 2005

This course will give participants a basic understanding of milking system applications of variable frequency drives (VFD) including installation techniques and troubleshooting. This course is designed for participants who have a general knowledge of milking systems and milking machine performance testing. Instructors will include faculty from the UW milking lab and leading industry professionals.

### Course Topics:

- Variable Frequency Drive (VFD) Operation and Theory
- Applications on dairy farms
  - Variable Speed Vacuum Pumps
  - Variable Speed Milk Pumps
  - Variable Speed Fans
- Proper Installation and Commissioning Techniques
- RF/EMI Noise Issues and Protection
- Troubleshooting/Tuning Variable Frequency Drives
- Potential Energy Savings

### Sponsored by

University of Wisconsin-Madison  
College of Agricultural & Life Sciences  
Milking Research and Instructional Lab  
Department of Biosystems Engineering  
Wisconsin Focus on Energy

## General Information

Mail check/money order (**payable to UW-Madison**) with Registration Form. If you do not submit payment in advance, specify payment arrangements on Registration Form. We do **not accept** phone registrations. Mail or fax the registration form to:

CALS Conference Services  
620 Babcock Drive  
Madison, WI 53706  
**FAX:** (608) 262-5088

**Location of Courses:** J. F. Friedrich Center, UW-Madison, 1950 Willow Drive, Madison, WI 53706

**Confirmation** will include course schedule, receipt, and map.

**Registration Fee** includes instructional materials, lunch and breaks.

**Lodging:** Lodging is available at the J. F. Friedrich Center. Room rates are \$77/single and \$87/double. Please make your reservations directly at (608) 231-1341.

**Cancellation Policy:** If you are unable to attend, please notify CALS Conference Services office immediately at (608) 263-1672. To receive a full refund, you must cancel one week before the first day of the course. After that date, a cancellation fee will be charged. If you fail to cancel, no refund will be granted. Substitutions may be made at any time and at no charge.

**For additional registration information:** contact CALS Conference Services at (608) 263-1672 or FAX to (608) 262-5088.

**For additional program information:** contact Doug Reinemann at (608) 262-0223 or email Doug at djreinem@wisc.edu.

*Please advise us at time of registration of any disabilities that require special accommodations. Requests will be kept confidential.*

**Course Instructors:** **Douglas J. Reinemann, Ph.D.**, Professor of Biological Systems Engineering and Director of the University of Wisconsin Milking Research and Instruction Lab and other industry professionals.

## Registration Form

Variable Frequency Drives for Dairy Farms  
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*Fill out a separate registration form (or copy) for each registrant.*

**Mail to: CALS Conference Services**  
620 Babcock Drive  
Madison, WI 53706  
or **FAX: (608) 262-5088**

NAME \_\_\_\_\_

ORGANIZATION \_\_\_\_\_

ADDRESS \_\_\_\_\_

CIRCLE ONE: HOME -OR- BUSINESS

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

DAYTIME PHONE ( \_\_\_\_\_ ) \_\_\_\_\_

EMAIL \_\_\_\_\_

**Registration Fee:**

\$150

**Enclose fee.**  
**Checks payable to UW-Madison**

Check enclosed

P.O. Number \_\_\_\_\_

Charge on the following account:

\_\_\_\_\_ VISA \_\_\_\_\_ Mastercard Exp. Date \_\_\_\_\_

Card Number \_\_\_\_\_

Name on Credit Card \_\_\_\_\_

Signature \_\_\_\_\_