

Registration Form

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

Address: \_\_\_\_\_  
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Phone: \_\_\_\_\_

Fax: \_\_\_\_\_

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

I wish to register for:

- February 28, Kemptville Calf Housing
- February 29 & March 1, Kemptville Free Stall
- March 6, Milverton Tie Stall
- March 8, Stratford Calf Housing
- March 21 & 22, Woodstock Free Stall

- ⇒ Free Stall course: \$190 + 13% HST = \$214.70
- ⇒ Tie Stall course: \$95 + 13% HST = \$107.35
- ⇒ Calf Housing: \$95 + 13% HST = \$107.35

⇒ Make cheques payable to:

**Minister of Finance**

⇒ If submitting by fax or electronically, please include:

Credit card # \_\_\_\_\_

Expiry \_\_\_\_\_ Amount \$ \_\_\_\_\_

Cardholder's Name \_\_\_\_\_

Cardholder's Signature \_\_\_\_\_

To register by phone, call the Agricultural Information Contact Centre at 1-877-424-1300 or (519) 826-4047.

Or send the registration form by:

Fax: 519-826-3442

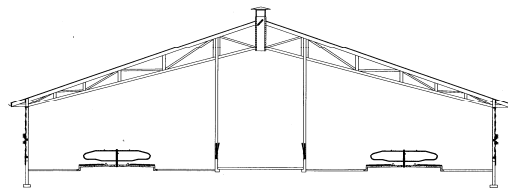
Mail: OMAFRA, AICC, 1 Stone Rd. W.,  
4th Fl., Guelph, ON N1G 4Y2

E-mail: ag.info.omafra@ontario.ca

**Lunch cannot be guaranteed for registrations made less than 7 days in advance.**

**Course Manuals**

Manuals for the Free Stall and Tie Stall courses may be purchased without course registration. To order a manual without participating in the course, call OMAFRA Woodstock 519-537-6621.



**Meeting Locations**

**KEMPTVILLE**

Royal Canadian Legion, Branch 212  
100 Reuben Crescent, Kemptville, ON  
West of Prescott St. and South of Clothier St. W.

**MILVERTON**

East Perth Recreation Complex  
40 Temperance Street, Milverton, ON  
Corner of Temperance St. and Wilfred St.

**STRATFORD**

Arden Park Hotel  
552 Ontario Street, Stratford, ON  
Corner of Ontario St. (Hwy 7/8) and Romeo St.

**WOODSTOCK**

OMAFRA Resource Centre  
401 Lakeview Drive, Woodstock, ON  
East of Hwy 59 at north side of city

Please make your own hotel reservations.

**Freedom of Information**

Personal information on this form is collected under the authority of the Ministry of Agriculture, Food and Rural Affairs Act, R.S.O. 1990, c.M.16. The Ontario Ministry of Agriculture and Food will use the information for registration, database purposes and for reference for future conference mailings. Questions about the collection of personal information should be directed to the Manager, Dairy Cattle, Swine and Poultry, Ministry of Agriculture, Food and Rural Affairs, 1 Stone Road, Guelph, ON N1G 4Y2 (519) 826-3107.

# Dairy Housing Design Seminars

## Calf Housing

**KEMPTVILLE Royal Canadian Legion  
February 28, 2012**

**STRATFORD Arden Park Hotel  
March 8, 2012**

## Free Stall Housing

**KEMPTVILLE Royal Canadian Legion  
February 29 & March 1, 2012**

**WOODSTOCK OMAFRA  
March 21 & 22, 2012**

## Tie Stall Housing

**MILVERTON Recreation Complex  
March 6, 2012**

## Tie Stall – 2012

9:30 a.m.

### Why Expand, Merits of Tie Stalls

A perspective on the future of the industry, Tie stall or free stall?

### Farmstead Planning and Regulations

Planning process, site selection, Minimum Distance Separation, Nutrient Management Act, Building Code, Municipal

### Cow Behaviour and Comfort

Cow behaviour, stall size, partition style, mattresses

### Layout Options and Housing Alternatives

Head to head or tail to tail, maternity pens, two row tie stall with heifer pens

### Building Environment and Ventilation

Natural vs. fans, ceiling materials, curtains, panels, chimneys and other components, tunnel ventilation, barn lighting

### Feed Storage and Delivery

Towers vs. bunkers, feed delivery

### Feeding and Watering Systems

Water systems, manger design

### Manure Collection, Handling and Storage

Solid vs. liquid, storage sizing and design

### Milking Systems

Labour saving options

### Optional Farm Visit

Consultants, contractors and suppliers of dairy housing equipment completing the course are listed in the OMAFRA Dairy Housing Manual

## Free Stall – 2012

Day 1 – 9:30 a.m.

### Why Expand, Why Free Stalls

A perspective on the future of the industry

### Farmstead and Process Planning

Planning process, site selection, Minimum Distance Separation, Nutrient Management Act, Building Code, Municipal

### Cow Behaviour and Comfort

Stall size, partition style, bases, mattresses & sand options

### Layout Options and Housing Alternatives

Layout options, housing alternatives

### Treatment, Maternity, Handling Facilities and Biosecurity

What design, how big, where to put it, sorting, self-locks

### Building Environment and Ventilation

Warm vs. cold housing, ceiling materials, curtains and panels, chimneys and ridge openings, lighting

### Optional Farm Visits

Day 2 – 9:30 a.m.

### Robotic Milking Options

Operation, layout, economics

### Manure Collection, Handling and Storage

Designing for scrapers, flush and slats, earthen and concrete tanks, handling sand-laden manure

### Handling Feed and Water

Bunker silo design, commodity storage, feed manger design, water tanks and systems

### Cow Traffic

Barn layout and cow, people and equipment movement

### Choosing a Milking Parlour

Parlour choices, robots, rotaries, parallels, herringbones, swing, flat and none at all: cost benefit and other implications

### Milking Centre Design

Parlour dimensions and features, utility, milk house and office space considerations

### Case Study

## Calf Housing – 2012

9:30 a.m.

### Calf Behaviour

Why this topic, feeding challenges – workers and calves, moving closer to nature's way, conventional and enhanced systems, free-access acidified milk feeding: warm box /room, milk line, milk trolley feeding system, automated milk mixer and free-access feeding systems, automated/computer feeder systems, calf behaviour for feeding/housing

### Housing Considerations

Isolation, protection from the elements, environment, ventilation, adequate space, observation, drainage, bedding, feeding, cleaning and sanitation

### Economics

Cost of raising dairy replacements, growth rate and mature production, labour

### Housing Options

Hutches, modified hutches, greenhouse calf shelters, cold calf barns, warm calf barns, manure handling

### Discussion Topics

Colostrum and esophageal feeders, single pen vs. groups, buckets vs. nipples, weaning techniques, intersuckling, case studies, other

## Facilitators

**Harold House**, Engineer, Dairy and Beef Housing and Equipment, OMAFRA. Harold has spent 31 years working with dairy farmers on improving and creating new designs for dairy barns. Harold's expertise also includes ventilation, manure handling and other barn design issues.

**Dr. Neil Anderson**, Veterinarian, Disease Prevention, Ruminants, OMAFRA. Neil has an international reputation as an expert in cow comfort. His video observation of cows illustrates the importance of designing stalls and barns to accommodate normal behaviour. Neil will also focus on barn features associated with lameness, mastitis and biosecurity.

**Brian Lang**, Dairy Cattle Production Systems Specialist, OMAFRA. Brian has 33 years extension experience with a focus on dairy production, labour efficiency and cost of production.

**Jack Rodenburg**, DairyLogix. Jack has 37 years of experience in dairy production and facilities with focus on dairy expansion planning, robotic milking, manure handling and designing facilities for labour efficiency.

## Who Should Attend?

These courses are specifically intended for producers with plans to build or renovate their free stall, tie stall or calf barns in the next few years. The focus is on fundamentals of design. The courses will provide practical information needed to build an economical, labour efficient facility that is comfortable for cattle.