

## Locations

### February 6

Doublewood Inn  
3333 South 13<sup>th</sup> Ave.  
Fargo, North Dakota 58103  
701.235.3333

### February 11

Hampton Inn & Suites  
1019 Paul Bunyan Dr. S.  
Bemidji, Minnesota 56601  
218.751.3600

### February 12

Ramada Inn  
1205 N. 43<sup>rd</sup> St.  
Grand Forks, North Dakota 58203  
701.775.3951

## Who should attend?

- New home builders and remodelers and their site supervision staff
- Estimators, contract managers and builders
- Specific trade contractors such as HVAC, framers and insulation contractors
- Utility and housing program officials
- Energy raters
- Building officials

*Eight hours of continuing education credits for builders and real estate professionals have been applied for through the Minnesota Department of Labor and Industry and the Minnesota Department of Commerce.*

*Approval was still pending at the time this brochure was printed. Please check our Web site at [www.minnkota.com](http://www.minnkota.com) for the most up-to-date information regarding the approval of this course.*

## Sponsors

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# Builder Workshops 2009

## Cold Climate Residential Construction Seminar

February 6  
Fargo  
North Dakota

February 11  
Bemidji  
Minnesota

February 12  
Grand Forks  
North Dakota



# Registration Form

(one person per registration form please)

Registration fee is \$60 per workshop. Make checks payable to: Minnkota Power Cooperative, Inc. (No credit card payments please.) Send completed registration form by **Jan. 31** with your check or money order to:

Lisa Pickard  
Minnkota Power Cooperative, Inc.  
P.O. Box 13200  
Grand Forks, N.D. 58208-3200

Name \_\_\_\_\_

Company \_\_\_\_\_

Company address \_\_\_\_\_

City \_\_\_\_\_

State \_\_\_\_\_ ZIP \_\_\_\_\_

Company phone number \_\_\_\_\_

License number \_\_\_\_\_

## Check which workshop you plan to attend:

- Friday, February 6  
Doublewood Inn, Fargo, N.D.
- Wednesday, February 11  
Hampton Inn & Suites, Bemidji, Minn.
- Thursday, February 12  
Ramada Inn, Grand Forks, N.D.

Refunds will be issued only with 24 hours prior notification.

Return this completed registration form with your payment.

# Cold Climate Residential Construction Seminar

## General building overview

- Introduction to whole house approach
- Goals in building performance
- Changes in building technologies and customer expectations

## Building envelope strategies

- Soil conditions, foundation systems and water management
- Above-grade wall assemblies, controlling moisture flow and insulation systems
- Room construction, ventilation and insulation applications
- Moisture and air control
- Managing and minimizing effects of pressures inside the home

## Shell penetrations

- Electric wires and boxes
- Ducts and vents
- Plumbing

## Non-destructive testing using infrared thermography and air infiltration in an energy audit

- Basic heat transfer concepts
- Intro and application of infrared thermography
- Intro and application of air filtration testing devices

## Update on Energy Code and IECC changes

- Identify relevant code changes and the impact to current building practices
- Identify current code concerns of participants and address possible solutions
- Learn essential strategies for implementing code changes

7:15 – 8:00 a.m.	Registration
	<i>Preregistration required by Jan. 31, 2009</i>
8:00 a.m. – Noon	Workshop
Noon – 12:45 p.m.	Lunch provided
12:45 – 5:00 p.m.	Workshop

## About the Instructor – Steve Wegman

Steve Wegman was an analyst for the South Dakota Public Utilities Commission and retired in 2008 after 35 years of government service. Prior to joining the commission, Steve was a member of South Dakota Gov. William Janklow's senior staff. His experience includes energy projects such as school wiring initiatives in South Dakota and the construction and conversion of mobile science laboratories.

Steve remains a strong advocate for the construction of energy-efficient buildings in the northern climate. He was a leader in the energy efficiency program for the South Dakota Housing Development Authority from 1980 to 1986. In that role, he trained numerous contractors and building suppliers on moisture, heating and in particular, super insulation on double wall systems.

Steve pioneered the use of air infiltration doors, infrared thermography and other non-destructive testing techniques for both residential and commercial buildings. In 1994, he led the Governor's House Program, which was created to provide reasonably sized, affordable homes to income-qualified individuals and families. More than 2,000 homes were built using these plans and techniques.

Steve is currently under contract with the National Renewable Energy Laboratory concerning energy issues and educational activities. He is a certified South Dakota Housing Development energy auditor and instructor. He has been a building contractor continuing education coordinator since 1999, and has written numerous technical papers on air infiltration, infrared thermography, heating and cooling techniques, and building construction.