# SESSION 2B

## HANDS-ON EVALUATION - BY THE NUMBERS

*Moderator:  Rudy Rooth, KEMA*

PAPERS:

**Billing Analysis & Environment that "Re-Sets" Savings for Programmable Thermostats in New Homes**
> Pierre Baillargeon, Econoler
> Lori Megdal, Megdal & Associates
> Normand Michaud, Econoler
> Carl Acocella, Hydro-Québec

**Addressing Climate Change by Retrofitting Chicago's Buildings:  The Whole Home Energy Savers Experience**
> Peter Ludwig, CNT Energy
> Majorie Isaacson, Center for Neighborhood Technology

**Policy Instruments for Energy Efficiency in Buildings:  Experiences and Lessons from the Nordic Countries**
> Bernadett Kiss, Lund University
> Kes McCormick, Lund University
> Lena Neij, Lund University
> Luis Mundaca, Lund University

SESSION SUMMARY:

This session will present results of several programs.  The results include the effectiveness of programmable thermostats, whole-home efficiency programs and the need for compliance evaluations to improve program effectiveness.

The first paper presents evidence for the effectiveness of programmable electronic thermostats in electric space heating residences.  Results will be presented for new single-family homes.  The results were used to estimate savings in new multi-family construction.

The second paper discusses the City of Chicago Climate Action Plan for retrofitting 400,000 housing units and its goal of saving 30% of combined gas and electric energy use. Housing includes both single and multi-family buildings.  The paper will report on the effectiveness of using the whole housing comprehensive approach, estimated energy savings, measured costs, and barriers effectiveness and how to overcome them.

The third paper reviews the experience of the Nordic countries of Denmark, Finland, Norway and Sweden in energy efficiency in terms of policy and evaluation.  The paper will describe the role of grants, loans and subsidies, codes and regulations, voluntary agreements, advisors, equipment ratings and program evaluations.  The study concludes with recommendations for long-term strategies, policy evaluations with a goal of improved learning in terms of actual energy savings.