

Combined Heat & Power (CHP): Changing the Way Energy is Produced & Used

**Breakout Session at the ASHE Conference
Tuesday, July 15th, 2003**

Biographical Sketches of the Panelists and Moderators

Session Moderator: Ms. Jan Berry – R&D Program Manager, Oak Ridge National Lab.

Jan Berry earned her B.S. from the University of Florida and her M.S. from the University of Tennessee, both in Chemical Engineering. She is presently an R&D Program Manager in the Combined Heat & Power Group of the Oak Ridge National Laboratory where she manages projects to design and install prototype CHP systems which utilize 3 to 5MW gas turbines, absorption chillers, and 200kW fuel cells. While employed within the Department of Energy's National Laboratory system, she devoted over 20 years to improving system performance by building teams, analyzing processes and developing technology.

Jan has received 9 honors including an award from the Young Women's Christian Association, organized or chaired over 15 conference sessions, and authored / co-authored more than 90 papers. She is a member and past Section Chair of the American Institute of Chemical Engineers, and a member of the American Society of Heating, Refrigerating, and Air-Conditioning Engineers.

Panel Moderator: Mr. John Cuttica – Coordinator of Energy & Environmental Programs, University of Illinois at Chicago Energy Resources Center.

Mr. Cuttica has over twenty-five years of experience in the energy field. During his career, he has been directly responsible for many End Use Energy Technology Programs aimed at the development and commercial introduction of advanced electric and natural gas technologies and products. These products have both expanded major new market opportunities and significantly improved the efficient use of energy. As a former Vice President and General Manager at the Gas Research Institute for 18 years, Mr. Cuttica directed program activities that resulted in 43 new products reaching commercial reality, 112 patents issued, and 101 patents covered by 38 commercial licenses successfully negotiated and signed. These advanced technologies and products are presently being utilized in such market sectors as Commercial Cooling, Alternative Fueled Vehicles, Distributed Generation, and various Industrial Processes.

Prior to his work at the Gas Research Institute, Mr. Cuttica was responsible for the Consumers Product R&D Program at the US Department of Energy. He was responsible for the original Appliance Efficiency Labeling Program, and the early R&D work in energy efficient lighting, day lighting, appliances, and thermally activated heat pumps.

In June of 2000, Mr. Cuttica joined the University of Illinois at Chicago Energy Resources Center where he serves as the Coordinator of Energy and Environmental Programs. During his employment at the Center, Mr. Cuttica has been responsible for expanding the Center's strategic direction to include Distributed Generation and Indoor Air Quality. As part of these initiatives, the University was designated (in March 2001) by DOE, as the first Regional CHP Application Center, set up to provide technical assistance and education in the area of Combined Heat and Power (CHP) to targeted audiences in the eight state Midwest region. The CHP Application Center is serving as the model for six additional regional centers to be established by DOE over the next several years. Mr. Cuttica serves as the Director of the Midwest CHP Application Center.

Panelists:

Mr. Philip H. Larson – Director of Facilities Engineering, Beloit Memorial Hospital

Philip began his health care employment with the Veterans Administration in 1982. He served as the Chief of Operations Energy Management Section for the greater Cleveland Veterans Administration Medical Centers. In 1989, Philip was selected as the Assistant Director of Engineering for Mt. Sinai Medical Center, Cleveland Ohio, and in 1990 moved to Beloit Wisconsin as the Director of Facilities Engineering at the Beloit Memorial Hospital.

Philip has a B.S. in Management from Cardinal Strich University, is a member of NFPA, ASHE, and is the incoming President of the Wisconsin Healthcare Engineering Association Chapter Two.

Mr. John Wimberly – President, I.C. Thomasson Associates

ICT is a 140-person consulting engineering firm based in Nashville, Tennessee, with offices in Tampa, Florida, Knoxville, Tennessee and Brookhaven, Mississippi. ICT practices in four major areas – educational/institutional, health care, commercial, and industrial.

John graduated from the University of Tennessee in 1981 with a Bachelor's degree in Mechanical Engineering. After graduation, He spent three years as an Associate Engineer with Georgia Power Company. His responsibilities at Georgia Power included field work at various Georgia power plants under construction or start-up. In 1984, John joined I. C. Thomasson Associates. He has risen through the ranks from his entry position as a Project Manager to the position of President. Over the years he has served as Project Manager and Principal-in-Charge for various projects, in industrial, healthcare and commercial markets. While assuming his responsibilities as President of ICT, John remains continually active in the design process for numerous projects. A few of the most recent projects in which he has been involved:

- Maju Heart and Lung Hospital, Kuala Lumpur, Malaysia
- Nashville Symphony Concert Hall
- Various Cogeneration and Chilled Water Plant Projects at Vanderbilt University and Vanderbilt University Medical Center
- University of Alabama at Birmingham Central Chilled Water Plants
- Opryland Hotel Cogeneration Facility
- University of Tennessee Boiler Addition, Knoxville
- Various Department of Energy Demonstration Projects

His particular expertise is in development of cogen-based powerhouses for colleges, universities, industry, and institutions.

Mr. Joseph Sinclair – President, Ballard Engineering

Ballard Engineering is a registered professional engineering company that specializes in the design and development of cogeneration, combined heat and power systems.

Joe was educated in Scotland, and is a graduate of a 5 year engineering program with three years of college in electrical technology. He is a Charter Life Member of the Association of Energy Engineers (A.E.E.) and he is also a member of the American Society of Mechanical Engineers (A.S.M.E.).

Joe has received numerous awards from the American Society of Heating, Refrigeration and Air Conditioning Engineers Inc., (A.S.H.R.E.) for design and excellence in engineering and he has also authored various papers and articles on cogeneration and distributive generation.

Joe has been the principal in the design and installation of numerous combined heat and power (CHPs) plants in North America, Central America, Africa, and the Far East.

Mr. Mike Kuechenmeister – Director of Facilities at Drake Center

Mike Kuechenmeister (Koo Ken Meister) has been involved in healthcare for over 24 years. Mike is the Director of Facilities at Drake Center. Mike's responsibilities cover the day to day operations of maintenance, environmental services, clinical engineering and construction projects. Prior to arriving at Drake Center, Mike was the Assistant Vice President for Corporate Facilities for the Health Alliance and was stationed at Jewish Hospital.

Mike is a national board member for the American Society for Health Care Engineering which is part of the American Hospital Association. This includes the representation of the hospitals located in Region #5 which comprises the states of Ohio, Illinois, Michigan and Indiana.

Mike has the designation of Fellow within the American Society for Health Care Engineering and is a Certified Plant Engineer.