

**Speakers' Biographies**  
**Seminar C-31**  
**Have You Joined the Hydronics Heating Generation?**

**Elizabeth A. Gibb, AIA**

Elizabeth A. Gibb is a practicing architect, principal in her own firm (Elizabeth A. Gibb, Architect), and an assistant professor of architecture at Wentworth Institute of Technology. She graduated from the University of Michigan in 1981 with a BA in Biology and in 1982 with an MS in Microbiology/Immunology. She received her MArch degree from SCI-Arc in 1989. Her firm's work includes a design-build residence. She has taught courses covering the design of the construction detail, integrated building systems, and methods of structural and envelope design. Before establishing her own firm in 2000, Elizabeth practiced with Machado and Silvetti Associates. She oversaw the construction of residential, academic, and institutional buildings, many of which received national recognition, including an AIA Honor Award. She has taught at the Southern California Institute of Architecture, the Rhode Island School of Design, Northeastern University, and the Boston Architectural Center.

**Bruce Marshall – Emerson Swan**

Bruce Marshall began his career in the heating industry in 1968 as an oil truck driver in South Boston. From there he went on to become a heating service technician, independent heating contractor, and oil company owner. He began teaching oil burner technology at New England Fuel Institute in 1987. In 1990, Bruce's career took a different path as he went to work as boiler company representative in Eastern Massachusetts. During that period he gained reputation as a "hands-on" instructor. In 1998, he went to work for a pump manufacturer covering all of New England and New York. He developed a training program to teach technicians pump technology.

Today, Bruce's responsibilities for Emerson Swan include training and the sharing of his experiences with installers, wholesalers, and other individuals involved in our industry.

**John J. Perry Jr. – Advance Comfort Systems Inc.**

John J. Perry Jr. is an installing contractor, principal in his own firm (Advanced Comfort Systems, Inc.). He founded the company with his father in 1996 specializing in Radiant Heat and Snow-Melt Systems. He designs the systems his company installs and works closely with architects in the early stages of planning.

**Bob Chew – President and Founder of SolarWrights**

Bob has been a solar designer/contractor since 1977 and is president of SolarWrights, a renewable energy company that designs, sells, installs and services solar energy equipment including photovoltaics, solar hot water systems, solar space heating systems and solar pool heating systems. Bob is a Rhode Island licensed Master Pipefitter, a Connecticut licensed Solar Thermal Contractor and a NABCEP Certified Solar Thermal Installer. Bob is a member of *REMODELING* Magazine's "BIG 50". SolarWrights corporate headquarters is in Bristol, RI and they have offices in MA, CT, NY and VT.

**Pat Murphy – Vice President, Certifications for North American Technician Excellence (NATE)**, - a non-profit organization that works to raise the standard of technician excellence in the heating, ventilation, air conditioning/refrigeration (HVAC/R) industry through certification testing. Since 1997, NATE has certified more than 22,000 technicians.

Prior to joining NATE, Murphy was an instructor of heating, ventilation, air conditioning and refrigeration for seven years with the Union County Vocational-Technical Schools in Scotch Plains, N.J. During that time, Murphy also was part of the Teacher Assessment Development Team with the National Board for Professional Teaching Standards. Murphy also served as a representative for the Air Conditioning and Refrigeration Institute and was responsible for reviewing nationally published textbooks.

Murphy received his Bachelor of Arts degree in accounting and financial management in 1975 from Pace University in New York, N.Y. Murphy also holds several certifications. As a result of his continued commitment to his profession, Murphy belongs to several professional organizations. Murphy served as president of the Council of Air Conditioning and Refrigeration Educators, is a member of the American Society of Heating, Refrigeration Air Conditioning Engineers, The Refrigeration Service Engineers Society, The Industry Competency Exam (ICE) Construction Committee and The Pennsylvania College of Technology's Advisory Board.