

Published papers

- 1989 **Infrared thermography as quality control for foamed-in-place insulation**
Co-author - Presented at: Thermosense XI, International Symposium on Aerospace/Defense (SPIE)
As Printed in SPIE Vol. 1094 Thermosense XI (1989)
- 1998 **Ice dam Remediation for Northeast Ski-Area Condominiums**
Presented at: Thermal Performance of the Exterior Envelopes of Buildings VII
Orlando, FL
- 1998 **Northeast Electric Bus Demonstration Project: Cabin Thermal Management**
Presented at SAE International Truck and Bus Meeting and Exposition
Indianapolis, Indiana
- 1999 **Thermographic Inspection and Quality Assurance of Energy Conservation Procedures for Electric Vehicles**
Presented at: Thermosense XX
- 2002 **The Use of Polyurethane Foam Technology in Historic Renovation & Remediation Work**
Presented at: Materials & Media 1 - Restoration and Renovation Conference
(National Trust for Historic Preservation, AIA/CES)

Articles

- 2003 **Spray Foam Insulation**
Journal of Light Construction
- 2005 **Setting Air Leakage Standards for Buildings**
ASHRAE Journal, September 2005
- 2007 **Low-Cost High-Performance Buildings**
Energy Design Update
- 2008 **Finding Leaks With a Theatrical Fog Machine**
Energy Design Update
- 2012 **Quality Spray Foam for Builders; Avoiding Problems with Spray Foam**
Journal of Light Construction; 2012

White Papers

- 2001 **Remote Temperature and Humidity Monitoring - Attics**
- 2001 **Snow, Frost and Dew Pattern Testing and Documentation**
- 2001 **What is a pressurized fog test?**
- 2002 **Attic and Closed Roof Slope Ventilation Design**
- 2003 **Thermal/Fire Barriers**
- 2003 **R-value Drift and Thermal Performance Standards**
- 2004 **Thermal Envelope Performance Design Review Process for New Construction**
- 2005 **Designing an Air Barrier Specification**
- 2006 **Air quality management plan for hazardous work areas which may influence occupied spaces**
- 2007 **Polyurethane foam thermal envelope system applicable to an "inside-out" brick cavity wall remediation project**

- 2007 **Polyurethanes - Types & Installation Considerations**
- 2008 **Noise Reducing Barriers**
- 2009 **Foam installations for mass-masonry or masonry-clad structures**
- 2011 **Proprietary vs. performance specifications**
- 2012 **Commentary for the EPA on spray foam personal and site protection, quality control**

Conference Posters

- 1977 ASHRAE Conference
- 2011 **Autonomous Polar Observing Systems Workshop (National Institute of Aerospace)**
William F. Bolger Center, Potomac, MD
The ARRO 2 Project Enclosure System
(Net-zero energy project in Antarctica - Poster presentation)

Publications - Henri C. Fennell, CSI/CDT

Standards development:

- 1998 **Models and standards for the Northeast Advanced Vehicle Consortium (NAVC) and Defense Advanced Research Projects Agency (DARPA) funded Electric and Hybrid-Electric Vehicle Program related to the development of the Cold-Weather Specifications for electric vehicles.**
- 2003 **Author: ASTM Standard - Standard Test Method for Identifying Air Leakage Locations by Fan Pressurization and the Introduction of Theatrical Fog.**
- 1973 to 2012 **Numerous peer reviews for ANSI and ASTM standards and work requirement documents for the industry.**
USGBC NRE SPF.CSG BPI ASTM

Intellectual property:

- 1973 **U.S. Government Patent No. 3,789,562, Structural Space-grid Building System with Insulated In-fill Panels**
DeChicchis, Fennell, and Schwartz. Modular energy-efficient building system.
- 2005 **U.S. Government Patent Serial No. - 10/961,702, Canadian Patent No. - 2,484,409, Construction Bracket, (2005) Fennell**
- 2005 **U.S. Government Patent Serial No. - 10/961,702, Canadian Patent No. - 2,484,409, Roof Venting Method, (2005) Fennell**
- 2006 **U.S. Government/Canadian Patents applied for, Liquid-Applied Membrane (LAM) expanding air and vapor barrier system**
- 2007 **U.S. Government Patent, Reusable Modular Components for High-performance Building Construction, (2007), Fennell.**