



LARRY W. BUTZ, P.E.

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Summary

Highly respected technical expert on global environmental issues and technologies of the HVAC, energy and building industries. Invited speaker to executive management of major multi-national corporations, industry groups, governments and scientific organizations throughout the world. Demonstrated success in multi-cultural projects with thorough understanding of different cultures, value systems, economic conditions, environmental parameters and constraints of different regions of the world.



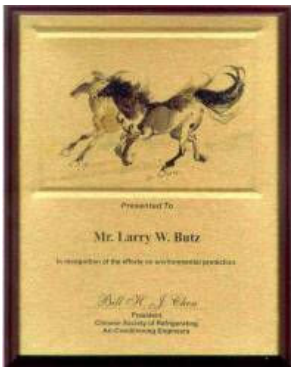
Education

B.S.M.E. and M.S.M.E. from University of Wisconsin - Madison. Masters thesis - *Solar Heating and Cooling for Residences*. Designed first solar heated and cooled home in U.S. Twenty plus credits of graduate level Business Administration and International Management courses.

Registered Professional Engineer in the State of Wisconsin. Member of ASHRAE. LEED AP.

Recent Awards

Distinguished speaker awards from Taiwan ASHRAE and ITRI, China CRAA, Singapore ASHRAE and Institute of Engineers, Vietnam's Ozone Protection Office, India's ACREX and ASHRAE, Australia's ACR and RRA, and others.



Languages

Fluent in French. Capable in Spanish. Limited speaking capabilities in more than a dozen languages.

Professional Experience

Engineering Consultant (July 2002 to present). Founder and president of Global Engineering Associates, a 25 engineer consulting group with offices in Australia, Europe, China and the United States. (www.gea-consulting.com)

Trane Air Conditioning Company – International division 1982-2002

Director Environmental Technologies (1997-2002)

Corporate spokesman and technical expert on environmental sciences, energy and air conditioning technologies. Effective communicator using multiple channels (presentations, lectures, technical papers, e-newsletters, Internet, meetings, television and video). Created and distributed highly regarded *Environmental Update* e-newsletter (by request) to government organizations, scientific bodies, major corporations, and global network of corporate environmental champions. Invited presenter to executive management for *Future Outlook* presentations at Sony, FujiFilm, SGS Thomson, Panasonic, Epson, Aggreko, Matsushita, Daikin,





Fujitsu and scientific, industry and government organizations (China SEPA and CRAA, Japan METI and JRAIA, Australia AFC, CSIRO and RRA, Singapore ASHRAE and IES, Taiwan ITRI and TSHRAE, etc.). Environmental sciences teacher for student training class (graduate engineers training for field assignments).

Technology Director, International Division (1992-1996)

Responsible for Technology and Product Development outside of North America. Environmental and technical spokesman for Trane International. Headed International Service organization for a year. Guest lecturer for two-week lecture tour to ASEAN countries teaching environmental sciences and how to make effective decisions on building energy systems.

Successfully completed technology transfer, training and factory startup of large chiller manufacturing plant in China.

Director Technology Exchange (1990-1992)

Responsible for technology exchange between North America and Europe/Middle East/Africa.

Formed global team to redesign European built chillers. Created and implemented engineer exchange program.

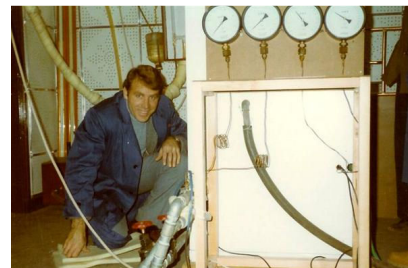
Engineering Manager, Trane Europe/MiddleEast/Africa (1985-1990)

Headed Engineering Division of 77 people located in European HQ in Epinal France. Responsible for product development, engineering, design department, materials and equipment test laboratories.

Successfully taught American based management techniques and motivational principles based on meeting people's needs.

Engineering Team Leader for China Project I (1982-1984)

Successfully completed technology transfer, training and factory start-up of two China factories to build compressors and residential air conditioners. Headed twenty-person engineering/drafting team that designed optimized products for China market and manufacturing capabilities. Principal instructor on heat pump theory and practice.



Partial List of Papers

Taking The Fear Out of R-22 May 2001, Trane Global Publication

Total Environmental Impact of Air Conditioning Equipment June 1998; **HVAC Philippines '98**

Total Environmental Impact of HVAC Equipment Nov 1997 KL, Malaysia; **ASHRAE**

An Effective Transition to CFC Alternatives Oct 1997, Brazil; **SMACNA**

R-22 and its Alternatives Oct 1997 Hong Kong; **Buildings, Energy & Environment**

R-22 Substitution - Trends in the US Sept 1997, Essen Germany, **ASERCOM**

Environmental Responsibility: The Role of HCFCs Mar 1995 New Delhi India; **ACREX**

The Search for Chiller Efficiency June 1995 Singapore; **Built Environment**

New Products and Technologies To Comply with the Montreal Protocol Sep 1993 Paris, **INTELEC**

An Orderly Evolution to non CFC Alternatives Nov 1992, Dammam Saudi; **CFC Symposium**

Seminar Presentations

Creating the Lean Enterprise, June 2005 Winona, MN

Pitfalls of Overseas Manufacturing, September 2004, LaCrosse, WI

China Manufacturing May 2003, EauClaire, WI

The Environment: Future Outlook, June 2002, Houston, TX

Refrigerants and the Environment: A Global Outlook, May 2002, Taipei, Taiwan

Total Environmental Impact, Earth Day-April 22, 2002, Bangkok, Thailand

The Environment: Shaping Our Industry, April 2002, Tokyo, Japan

One Environment: Global Issue, Unique Regional Responses, January 2002, Shenzhen, China

Minimizing the Total Environmental Impact of Air-Conditioning Systems, November 2001, Singapore

Positive Responses By Business September 2001, Interfaith Response to Global Warming Conference, LaCrosse, WI

Energy and the Environment Shanghai, China, August 2001 and LaCrosse, WI, Nov 2001

The Environment: Shaping Our Industry August 2001, Fuzhou, China

Future Outlook for the HVAC Industry, August 2001, Honolulu, Hawaii

The Refrigerant Story May 2000 Bangkok, Thailand and Singapore

Minimizing the Total Environmental Impact of Air Conditioning Systems, November 1999, Beijing, China

