

SUMMARY VITA – Prakash R. Dhamshala, Ph.D., P.E.

Professor

Years on Faculty: 28 (original appointment 08/01/81)

Degrees:

B.E Mechanical Engineering, Sri Venkateswara University (India), 1970

M.S. Mechanical Engineering, University of Miami (Florida), 1972

Ph.D. Mechanical Engineering, Georgia Institute of Technology, 1978

Other Related Experience:

States in which Registered (Inactive): Tennessee, Ohio.

Principal Publications in the Last Five Years:

1. “Thermoeconomic Analysis of PV/Wind Hybrid Systems” Prakash Dhamshala, Bhavin Madhu, M.S thesis to be completed by December 2009.
2. “Thermoeconomic Analysis of Biomass for Power Production” Prakash Dhamshala, Madan Nellore, M.S thesis to be completed by December 2009.
3. “Economic Benefits of Advanced CHP Systems” by Prakash Dhamshala, Proceedings of CLIMA 2005 Congress” in Laussane, Switzerland, October, 2005.
4. “Thermoeconomic Analysis of Cogeneration System for HVAC Applications in Commercial and Industrial Building” by Prakash R. Damshala and James Nathan Pugh, M.S thesis completed in May 2004.
5. “Energy Cost Savings with Use of DOAS Systems in Various Cities in U.S” Proceedings of ASME World Congress, Washington D.C, Nov 2003.
6. “Energy Cost Savings due to Use of Energy Recovery System with Dedicated Outside Air Systems (DOAS),” Seminar presented ASHRAE Annual Meeting in Kansas City, MO June 2003.
7. “A Multi-Purpose Thermal Design Project that Works” by Prakash R. Damshala and Robert Bailey, published in The International Journal of Mechanical Engineering Education, Volume 30, Number 2, April 2002.
8. “A Computer Design Project for an Energy Recovery System” by Prakash R. Dhamshala, a paper presented at ASEE southeastern conference held at Charleston, SC in April 2001
9. “Numerical Analysis of Solar Storage (Trombe) Wall for Identifying Optimal Energy Recovery Conditions” by Prakash R. Damshala and Robert Bailey, a paper presented at ASEE southeastern conference, April 2000 at Blacksburg, Virginia.
10. “Electronic ASHRAE Handbook” presented at the monthly meeting of ASHRAE regional chapter meeting for professional development credits, February 2001.
11. “Thermoeconomic Analysis of a CHP System by Iterative Numerical Techniques” by Prakash R. Damshala, Transactions of ASHRAE February 2000, Vol. 106, Part 1.

Text Books

“Thermal Science Laboratory Manual” by Prakash R. Damshala.

“Design and Analysis of Thermal Components and Systems” by Prakash R. Damshala, Document Center, The University of Tennessee, Chattanooga, January 2003

“A Modern Approach to Design of Air Conditioning and Refrigeration Systems” by Prakash R. Damshala and P.V. Kadaba, Part of the manuscripts is under completion.

“Co-Authored the Chapter “Air-to-Air Energy Recovery”, ASHRAE Handbook of Systems and Equipment, 2004.

Software Development

“Heat” software developed by Prakash R. Damshala to accompany the Thermal Science Lab Manual. It is also designed to be used in other thermal science Courses, 1991.

Transient Analysis of Building Loads and Energy Technologies (TABLET), A Research Tool to Perform Transient Thermal and Economic Analysis of Building Energy Costs using hourly weather data, 1998.

A software to perform Thermo-economic Analysis of CHP (Combined Heat and Power) Systems, 1999.
“TERSA, Transient Energy Recovery Systems Analysis”.

Scientific and Professional Society Memberships:

Member of ASME

Member and Faculty Advisor of ASHRAE Student Chapter

Honors and Awards:

Nominated for the University Distinguished Professor Award by the Dean of Engineering at YSU.

Received special award for scoring the highest grade in the P. E. examination for the state of Ohio.

Listed in Who’s Who Among America’s Teachers in 2000, 6th Ed, Volume 2.

Institutional Service in the Last Five Years:

Served as a Chairman of school’s graduate curriculum committee, as Chair of school’s rank and tenure committee.

Professional Service in the Last Five Years:

Serving as a member of handbook committee of ASHRAE

Vice-Chair of ASHRAE T.C 5.5 Committee

Faculty Advisor to UTC ASHRAE Chapter.

Board member of Tennessee Valley Chapter of ASHRAE for the last five years

Offered F.E refresher courses.

Professional Development Activities in the Last Five Years:

Attended ASHRAE’s winter annual and annual meetings for the last 10 years.

Attended regularly the monthly local ASHRAE chapter meetings and other workshops.