

**PRAVINRAY D. GANDHI, Ph.D.**

**EDUCATION**

1981 - 1984

University of Notre Dame, Notre Dame  
Ph.D. in Mechanical Engineering

1979 - 1981

University of South Carolina  
MS in Mechanical Engineering

1971 - 1976

Indian Institute of Technology, New Delhi, India  
B. Tech in Mechanical Engineering

**PROFESSIONAL WORK HISTORY**

1984 – Present            Underwriters Laboratories Inc.  
   Director, Corporate Research

- \* Developing research strategy and managing research teams
- \* Development of hazard assessment techniques and application to identify fire safety strategies
- \* Development of standardized test methods
- \* Development of test standards (NFPA, ASTM, ISO, IEC)

**PROFESSIONAL REGISTRATION AND ORGANIZATIONAL AFFILIATIONS**

Professional Engineer - Illinois  
American Society for Testing and Materials  
National Fire Protection Association

**PROFESSIONAL RECOGNITIONS**

Underwriters Laboratories William Henry Merrill Society Fellow

**PARTIAL LIST OF PUBLICATIONS**

T. Z. Fabian, P. D. Gandhi, P. E. Patty, J. T. Chapin, Characterization of Combustion Products under flaming and non-flaming conditions: Smoke Alarm Fire Test Room, 14th International Conference on Automatic Fire Detection, Universitat Duisberg-Essen, Duisburg, Germany (2009).

T.Z. Fabian, P.D. Gandhi and J.T. Chapin, Cable Material Component Effects on Large-Scale Fire Tests: Part 1, Underwriters Laboratories Incorporated, Northbrook, IL, 55th International Wire and Cable Symposium, (2006).

Pravinray D. Gandhi, Kerry Bell, Large-Scale Fire Testing, A Valuable Tool for Storage Facility Protection, PM Engineer, (2005).

Xiaomei Fang, Andrew Bushelman, Paul Neveaux, Rajgopala Subramanian, J. Thomas Chapin, Pravinray D. Gandhi, The Development of an Improved Reference Cable for the NFPA 262/UL 910 Plenum Fire Test, 50th International Wire and Cable Symposium, (2001).

David T. Sheppard, Pravinray D. Gandhi, Richard Lupetow, Understanding Sprinkler Sprays - Trajectory Analysis, 15th UJNR Conference, pp. 281-288, (2000).

David Dini, Pravinray Gandhi, Richard Wagner, Robert Backstrom, David Dubiel, Richard Berman, Burning Characteristics Of Natural And Artificial Christmas Trees In Room Fires, Underwriters Laboratories Inc. 333 Pfingsten Rd. Northbrook, IL 60062, (1999).

J. Thomas Chapin, Pravin D. Gandhi, The Development and Performance of a Calibration Cable for the NFPA 262/UL910 Plenum Cable Test, 48th International Wire and Cable Symposium, (1999).

Pravinray D. Gandhi, Comparison Of Cone Calorimeter Data With FM3972 For Communication Cables, Fire and Materials, (1998).

Pravinray D. Gandhi, Using PDPA In Evaluation Of Sprinklers, 14th UJNR Conference, Tsukuba, Japan (1998).

Pravinray D. Gandhi, Corrosion From Combustion Products - An Overview, 14th UJNR Conference, pp. 209-224, (1997).

J. Thomas Chapin, Loren M. Caudill, Pravin Gandhi, Robert Backstrom, Leakage Current Smoke Corrosivity Testing, Comparison of Cable and Material Data, International Wire and Cable Symposium, (1996).

Pravinray D. Gandhi, Loren Caudill, James Hoover, Tom Chapin, Determination Of Fire Exposure Heat Flux In Cable Fire Tests, Fifth International Symposium On Fire Safety Science (1996).

David T. Sheppard, P. D. Gandhi, Estimating Smoke Hazard From Steiner Tunnel Smoke Data, Fire Technology, pp. 65-75, (1996).

P. D. Gandhi, Temperature And Velocity Correlations In Room Fires For Estimating Sprinkler Actuation, Fire Technology, pp. 137-157, (1995).

Pravinray D. Gandhi, Validation Of A Zone Model For Predicting Smoke Obscuration In Rooms, Journal Of Fire Sciences, pp. 313-325, (1994).

P. D. Gandhi,, Modeling Gas Collection Systems For Corrosion Testing, Fire Safety Journal, pp. 47-68, (1993).

P. D. Gandhi, Using Calorimeter Data And A Zone Model To Predict Smoke Obscuration In Room Fire - A Parametric Study, Fire Safety Journal, pp. 115-134, (1993).

Pravinray D. Gandhi, Validation Of FAST For Room Corner Fire Tests, Interflam 93, (1993).  
Pravin D. Gandhi, Correlations Of Steel Column Fire Test Data, Fire Technology, pp. 20-32, (1988).

P. D. Gandhi, A. M. Kanury, Chemical Reactions In a Transient Natural Convective Boundary Layer, Progress In Astronautics And Aeronautics - Dynamics Of Reactive Systems Part I: Flames And Configurations, pp. 208-232, (1985).

P. D. Gandhi, A. Kanury, Criterion For Spontaneous Ignition Of Radiantly Heated Organic Solids, Joint Technical Meeting Of Central States Section Of The Combustion Institute (1985).