

DOUGLAS J. CARPENTER B.S.

PRESENTATIONS (NON-PEER REVIEWED):

- Carpenter, D. J., "**Fire Protection in Antarctica**," presented to the Chesapeake Chapter of the Society of Fire Protection Engineers, **College Park, Maryland**, April 30, 1998; New England Chapter of the Society of Fire Protection Engineers, **Boston, MA**, February 7, 2000.
- Carpenter, D. J. and Hamer, A. J., "**The Modeling of Experimental Compartment Fires Using Computational Fluid Dynamics**," presented at the 1998 STAR-CD North America User's Conference, **Detroit, MI**, May 19-20, 1998.
- Carpenter, D. J., "**The Use of Quantitative Tools in Fire Investigation**," presented to the Vermont Chapter of the International Association of Arson Investigators, **Randolph Center, VT**, December 3, 1998; New Jersey Chapter of the International Association of Arson Investigators, **Morristown, NJ**, June 18, 1999.
- Carpenter, D. J., Beller, D., and Sapochetti, J., "**Using the "Scientific Method" in the Analysis of the Cause and Origin of the Fire at the Coconut Grove: Development of a New Hypothesis**", NFPA World Fire Safety Congress and Exposition, **Baltimore, MD**, May 16-20, 1999.
- Carpenter, D. J., and Roby, R. J., "**Advanced Investigation and Technology: Application and Presentation of Fire Modeling in Arson Investigations**," presented to the National Society of Professional Insurance Investigators 1999 Advanced Insurance Fraud Seminar, **Cincinnati, OH**, November 11, 1999.
- Watts, J. M., Jr., and Carpenter, D. J., "**Fire Dynamics and Fire Modeling & Human Behavior in Fire and Performance-Based Fire Safety Evaluation**", State of Vermont, Department of Labor, **Rutland, VT**, January 31st, 2000.
- West, L. E., Reiter, D. A., and Carpenter, D. J., "Forensic Fire Investigation", The 2000 Claims Conference, Professional Loss Research Bureau (PLRB), **Chicago, IL**, March 26 - 29, 2000.
Protection Engineering, 2001.

CONFERENCE POSTER SESSIONS (EDITORIALY REVIEWED):

- Carpenter, D. J., and DiNenno, P. J., "**Halon Alternative Selection Tool Software**", Proceedings of the Halon Alternatives Technical Working Conference, May 6-8, 1997, Albuquerque, NM.
- Carpenter, D. J., and Barnett, J. R., "**The Modeling of Fire Tests Conducted at the National Research Council of Canada Using the Fire Field Model JASMINE**," presented at the International Conference on Fire Research and Engineering, Orlando, FL, September 10-15, 1995.

CONFERENCE/SYMPOSIUM PAPERS (EDITORIALY REVIEWED):

- Carpenter, D. J., "**Development of a Waiver/Deviation Process for Determining Equivalent Fire Protection at United States Research Stations in Antarctica**," presented at the International

Conference on Performance-Based Fire Safety Codes and Design Methods, **Ottawa, Canada**, September 23-26, 1996.

- Zhang, W., Hamer, A. J., Klassen, M. S., Carpenter, D. J., and Roby, R. J., "**Verification of the Turbulence Statistics for Fire Dynamic Simulator in a Room Fire**", presented at 3rd Technical Symposium on Computer Applications in Fire Protection Engineering, Baltimore, MD, September 12-13, 2001.
- Sutula, J. A., Carpenter, D. J., and Roby, R. J., "**Use of the FDS Model to Analyze Two Competing Scenarios in an Alleged Arson Case**", presented at 3rd Technical Symposium on Computer Applications in Fire Protection Engineering, Baltimore, MD, September 12-13, 2001.
- Zhang, W., Hamer, A. J., Klassen, M. S., Carpenter, D. J., and Roby, R. J., "**Turbulence Statistics in a Fire Room Model By Large Eddy Simulation**," presented at 2nd Joint Meeting of the U.S. Sections of the Combustion Institute, Oakland, CA, March 2001.

JOURNAL PUBLICATIONS (PEER REVIEWED):

- Wade, C. A., and Carpenter, D. J., "**A Performance-Based Analysis of an Industrial Facility Containing Flammable Liquid Storage**", SFPE Journal of Fire Protection Engineering, Vol. 9, No. 2, 1998.
- Carpenter, D. J., and Wade, C. A., "**A Performance-Based Fire Hazard Analysis of an Industrial Process Using Pressurized Hydraulic Fluids**", in preparation for submission to the Journal of Fire Protection Engineering, 2001.

PUBLISHED REPORTS

- DiNenno, P. J., Verdonik, D. P., and Carpenter, D. J., "**U.S. Navy Halon 1211 Replacement Plan Part I - Development of Halon 1211 Alternatives**", Navy Research Laboratory (NRL), NRL/MR/6180-99-8410, November 1, 1999.
- Mawhinney, J. R., and Carpenter, D. J., "**A Review of Fire Hazards and Fire Suppression Options for the Halifax Class Frigates of the Canadian Navy**," Client Report A-4424.1, for Department of National Defence, National Research Council Canada, Ottawa, Canada, March 10, 1997.
- Amy, J., Carpenter, D. J., and Pucci, W. E., "**Alternative Combustible Loading: Conceptual Matrix Development and Implementation (U)**", WSRC-RP-93-1445, Westinghouse Savannah River Company, Savannah River Site, Aiken, SC, October 29, 1993.
- Carpenter, D. J., "**Alternative Combustible Loading: An Overview and Methodology Framework (U)**", WSRC-RP-93-1194, Westinghouse Savannah River Company, Savannah River Site, Aiken, SC, September 30, 1993.