

**STEPHEN M. OLENICK, MSFPE, CFEI, P.E.**

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**SELECTED PUBLICATIONS**

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- Milarcek, B.L, Olenick, S.M., and Roby, R.J., "A Relative Time Analysis of the Performance of Residential Smoke Detection Technologies" *Fire Technology*, (accepted and available online).
- Olenick, S.M., Roby, R.J., Carpenter, D.J., and Goodman, A., "Evaluation of the NFPA 72 Spacing Requirements for Waffle Ceilings", Proceedings of the National Fire Protection Research Foundation Suppression and Detection Research and Applications Conference (SUPDET 2008), 2008.
- Zhang, W., Olenick, S.M., Klassen, M.S., Carpenter, D.J., Roby, R.J., and Torero, J.L., "A Smoke Detector Activation Algorithm for Large Eddy Simulation Fire Modeling," *Fire Safety Journal*, v.43, n.2, 2008.
- Roby, R.J., Olenick, S.M., Zhang, W., Carpenter, D.J., Klassen, M.S., and Torero, J.L. A Smoke Detector Algorithm for Large Eddy Simulation Modeling. NIST GCR 07-911, July, 2007.
- Milarcek, B.L, Olenick, S.M., and Roby, R.J., "An Analysis of the Performance of Residential Smoke Detection Technologies Utilizing the Concept of Relative Time," *Proceedings of the National Fire Protection Research Foundation Suppression and Detection Research and Applications Symposium (SUPDET)*, 2007. (2007 Carey award)
- Olenick, S.M., Roby, R.J., Klassen, M.S., Zhang, W., Sutula, J.A., Worrell, C., Wu, D., D'Souza, V., Ashley, A., Dubois, J., Torero, J.L., and Streit, L., "The Role of Smoke Detectors in Forensic Fire Investigation and Reconstruction," Proceedings of the International Symposium on Fire Investigation Science and Technology (ISFI), 2006.
- Spearpoint, M., Olenick, S. M., Torero, J. L., and Steinhaus, T., "Ignition Performance of New and Used Motor Vehicle Upholstery Fabrics", *Fire and Materials*, v. 29, n. 5, 2005.
- Ma, T., Olenick, S. M., Klassen, M. S., Roby, R. J., and Torero, J. L., "Burning Rate of Liquid Fuel on Carpet (Porous Media)", *Fire Technology*, 40, 2004. (2005 Bigglestone Award)
- Roby, R.J., W. Zhang, G.C. Gaines, S.M. Olenick, M.S. Klassen, and J.L. Torero, "The Integration of a Smoke Detector Model with Large Eddy Simulation Fire Modeling for Predicting Smoke Detector Activation in Microgravity," Proceedings of Strategic Research to Enable NASA's Exploration Missions Conference and Workshop Poster Session, June, 2004.
- J.L. Torero, S.M. Olenick, J.P. Garo and J.P. Vantelon, "Determination of the Burning Characteristics of a Slick of Oil on Water", *Spill Science and Technology Bulletin*, v.8, 4, 2003.
- Stephen M Olenick and Douglas J. Carpenter, "An Updated International Survey of Computer Models for Fire and Smoke," *SFPE Journal of Fire Protection Engineering*, v. 13, n. 2, 2003.
- Vijay T. D'Souza, Jason A. Sutula, Stephen M. Olenick, Wei Zhang, and Richard J. Roby, "Predicting Smoke Detector Activation using the Fire Dynamics Simulator," *Proceedings of the IAFSS 7<sup>th</sup> International Symposium on Fire Safety Science*, 2002.
- Maclain M. Holton, Stephen M. Olenick, Michael S. Klassen, and Richard J. Roby, "A Study of the Effectiveness of Passive Infrared Burglar Alarms to Detect Fires and Smoke," *Proceedings of The Fire Protection Research Foundation: The Fire Suppression and Detection Research Application Symposium*, Tampa, FL, January, 2002.

- Vijay T. D'Souza, Jason A. Sutula, Stephen M. Olenick, Wei Zhang, and Richard J. Roby, "Use of the Fire Dynamics Simulator to Predict Smoke Detector Activation," *Proceedings of the Fall Technical Meeting of the Eastern States Section of the Combustion Institute*, December, 2001.
- M. Roslon, S. Olenick, Y. Y. Zhou, D. C. Walther, J.L. Torero, A.C. Fernandez-Pello and H. D. Ross, "Micro-Gravity Ignition Delay of Solid Fuels in Low Velocity Flows," *AIAA-Journal*, v. 39, n. 12, December, 2001.
- Stephen M. Olenick, Michael S. Klassen, and Richard J. Roby, "Validation Study of FDS for a High-Rack Storage Fire Involving Pool Chemicals," *Final Proceedings, SFPE 3<sup>rd</sup> Technical Symposium on Computer Applications in Fire Protection Engineering*, September, 2001.
- N. Wu, T. Mosman, S. M. Olenick and J. L. Torero, "The Effect of Weathering on Piloted Ignition and Flash Point of a Slick of Oil," *Spill Science and Technology Bulletin*, (submitted).
- M. Roslon, S. Olenick, D. Walther, J.L. Torero, A.C. Fernandez-Pello and H. Ross "Microgravity Ignition Delay of Solid Fuels in Low Velocity Flows," *Proceedings of the Spring Meeting of the Western States Sections*, The Combustion Institute, Boulder, Colorado, March 2000.
- M. Roslon, S. Olenick, D. C. Walther, J. L. Torero, A. C. Fernandez-Pello and H. D. Ross, "Flow Effects on the Micro-Gravity Ignition Delay of Solid Fuels," *38<sup>th</sup> AIAA Aerospace Science Meeting*, Reno, Nevada, January, 2000.
- S. Olenick, M. Roslon, D. Walther, J. L. Torero, A.C. Fernandez-Pello and H. Ross, "Flow Effects on the Microgravity Piloted Ignition Delay of Solid Fuels" *Proceedings of the International Seminar on Microgravity Combustion*, Institute of Fluid Science, Tohoku University, Sendai, Japan, August, pp 172-181, 1999.
- T. Steinhaus, S. M. Olenick, A. Sifuentes, R. T. Long and J. L. Torero, "A Method for Assessing Material Flammability for Micro-Gravity Environments," *Proceedings of the Joint Meeting of the United States Sections*, The Combustion Institute, Washington, D.C., March 1999.
- N. Wu, T. Mosman, S. M. Olenick and J. L. Torero, "Piloted Ignition of a Slick of Oil on a Water Sublayer: The Effect of Weathering and Flash Point," *21<sup>st</sup> Arctic and Marine Oil Spill Program (AMOP) Technical Seminar*, Edmonton, Canada, vol.2, June 1998.