Marquette University

- 1. Christopher R. Johnson; John P. Borg; C. Scott Alexander; Jeff W. LaJeunesse; Nathaniel S. Helminiak; Paul E. Specht "Flow Strength Measurements of Wrought and AM SS304L via Pressure Shear Plate Impact Experiments" Dynamic Behavior of Materials (under review)
- Sable, P., Neel, C.H. and Borg, J.P. High Strain-rate Shear and Friction Characterization of Fully-Dense Polyurethane and Epoxy, https://doi.org/10.1016/j.ijimpeng.2019.103472
- Johnson, CR, [MUG] Sable, PA, [MUG] LaJeunesse, J, [MUG] Dawson, A., [MUUG] Hatzenbihler, A. [MUUG] and Borg, JP Photon Doppler Velocimetry Measurements of Transverse Surface Velocities , 89, 063106 (2018); https://doi.org/10.1063/1.5006178
- 4. N. S. Helminiak [MUG], D. S. Helminiak [MUG], V. Cariapa [MU-MEEN] and J. P. Borg, Resolving Two Dimensional Angular Velocity within a Rotary Tumbler, https://doi.org/10.1007/s12650-018-0495-1

- 21. Borg, J., Bartyczak, S. [Navy], Swanson, N., [Navy] and Cogar, J. [Navy] Impact and Dispersion of Liquid Filled Cylinders, Vol. 128, No. 6, pg. 1295-1307, 2006 22. Borg, J., Downs, T. [MUG] and Lloyd, A. [MUG] *High Strain Rate Fragmentation of Liquid Systems at Atmospheric*
- 33, pg. 119ì 125, 2006 Pressure,
- 23. Borg, J.P., Chapman, D., [Cambridge Univ.] Tsembelis, K., [Cambridge Univ.] Proud, W. G. [Cambridge Univ.], and Cogar, J.R. [Navy] Dynamic Compaction of Porous Silica Power, vol. 98

- 21. LaJeunesse, J. [MUG], Stewart, S. Kennedy, G., Thadhani and Borg, J. Investigating Velocity Spectra at the Hugoniot State of Shock Loaded Materials
  - 60(8), 2015, Tampa Fl
- 22. Borg, J and Sable, P. [MUG] In situ Characterization of Projectile Penetration into Sand Targets

60(8), 2015, Tampa Ĕl

23. Schumaker, M. [MUG] Stewart, S., Borg, J. Stress and Temperature Distributions of Individual Particles in a Shock

40.	Fraser [MUG] and Borg. The Effect of Nano-Particles on the One-Dimensional Shock Compaction of Al-MnO <sub>2</sub> - Epoxy Mixtures, , Nashville TN
41.	Ward [MUG], Borg, Nance and Cogar. Numerical Investigations of the Sensitivity of Debris Cloud Thermodynamic State to Equation of State,
42.	Nashville TN July 2009, pg. 867-870 Fraser A., [MUG] Borg, JP, Jordan, JL and Sutherland G., Exploring the micro-mechanica8 Ee havitad Eff Alg Mocoo Au0 612 792 5 ure T
10	Albuquerque, NM USA June 2009
43.	wave forms through Ottawa sand, Society of Experimental Mechanics
44.	, Albuquerque, NM USA June 2009 Borg JP and Vogler TJ. An Experimental Investigation of the a High Velocity Projectile Penetrating Sand,
	. Orlando FL
4 -	June 2-5, pg. 348-353
45.	Borg, JP and Vogier, TJ <i>Wesoscale Calculations of Shock Loaded Granular Ceramics.</i>
	, proceedings from Edited by M. Elert. MD. Eurnish. R. Chau, N. Holes and J. Nouven, ng. 227-230
46.	Vogler, TJ and Borg, JP Mesoscale and Continuum Calculations of Wave Profiles for Shock-Loaded Granular Ceramics.
	, proceedings from
	, Edited by M. Elert, MD Furnish, R Chau, N. Holes and J. Nguyen, pg. 291-
	294.
47.	Proud, Chapman, Williamson, Tsembelis, Bragov, Lomunov, Cullis, Church, Gould, Porter, Cogar, and Borg, <i>The Dynamic Compaction of Sand And Related Porous Systems.</i>
	, proceedings from , Edited
	by M. Elert, MD Furnish, R Chau, N. Holes and J. Nguyen, pg. 1403-1408
48.	Tsembelis <sup>,</sup> K., Ramsden, B., Proud WG, and Borg JP, Cav_Ko: A Simple 1-D Langrangian Hydrocode For Ms-
	, proceedings from , Edited
	by M. Elert, MD Furnish, R Chau, N. Holes and J. Nguyen, pg. 283- <b>286</b> re
49.	Zitomer, D., Olson, L., and Borg, J.P., Catholic Ideals in Engineering Education: International Service Learning at
	Marquette University, , Dayton OH, Sept. 22-24, 2005 (10
FO	Pages) D.L.A. Cross, D.L.Chanman, J.D.Borg, J.D. Cogar, J.C. Cullis, K. Tsamholis, and W.C. Droud, <i>Experimental Liveniat</i>
50.	Data of Porous Silica.

- Conference on Shock Compression of Condensed Matter, Baltimore MD, AIP Press., July 31-Aug. 5, pg 61-64, 2005
  51. Borg, J., Downs, T. [MUG] and Lloyd, A. [MUG] Liquid breakup under one-dimensional strain,

- 58. Borg, J.P. *SM-3 Intercepts of Tactical Ballistic Missiles with Bulk Chemical Payloads(U)* AIAA 2<sup>nd</sup> Biennial National Forum on Weapons System Effectiveness John Hopkins University, Applied Physics Laboratory, Laurel Maryland, March 27-29 2001. Classified: Secret
- 59. Borg, J.P., Cogar, J.R. and Ference, S.L., *Dimensionless Analysis of Fluid Dispersion from a Thin Walled Container Impacted by a Spherical Projectile*, ASME Pressure Vessel and Piping Conference, Seattle, WA July 2000. published in

- 13. Borg, J.P. and Cogar, J.R. Standard Missile-3 Third Stage Rocket Motor Barrier Deployment: Computational Results, , pg. 1-15, December 1998
- 14. Ference, S.L., Borg, J.P. and Cogar, J.R. *Test & Analysis Plan for Source Term Investigation of TBM Bulk Chemical Target Intercepts*, , Dahlgren Virginia, pg. 1-23, June 1998
- 1. LaJeunesse, J. and Borg, J. Dynamic Behavior of Earth Materials Subjected to Pressure-Shear Loading \_\_\_\_\_\_\_, 2-7 October 2016, Toledo, Spain
- 2. LaJeunesse, J. and Borg, J. Dynamic Construction and Characterization of a Single Stage Dual Diaphragm Gun \_\_\_\_\_\_, 2-7 October 2016, Toledo, Spain
- 3. Borg, J.P. and Vogler, T.J. Annual Meeting and Exhibition,

TMS

SCCM Conference - Ballistics studies	Projectile Penetration into Sand Targets	St. Louis, MS	7/12/17

•