

HVIS 2017 – Correct as of April 13th, 2017, there may be late minute changes still to come

Each day is on a separate page. Locations may be updated nearer the event.

Arrival is on Sunday 23rd April, with a small reception. Departure is after lunch on Friday 28th April.

Details of how to access the University campus will be available via the web site

The list of which posters are in which poster session starts on page 7 of this document.

This schedule is correct at the time of going to press, any last minute changes will be notified at the meeting itself.

Sunday April 23rd: Arrival and registration, with small reception

Location: [Canterbury Cathedral Lodge](#)

Time: 4 pm – 8 pm, with a small reception from 6 – 8 pm.

Monday April 24th: Day 1 – on campus at the University of Kent, Canterbury.
Location Keynes College Lecture Theatre 1 (Registration can also take place all morning outside the lecture theatre)

Time	Abstract Number	Title	Authors (Speaker underlined)
0800 - 0840		Welcome/Opening Ceremony	
0840 - 0940		Distinguished speaker award	
Break (Teas and coffees) 0940 - 0950			
Topic 7 Hypervelocity phenomenology studies			
0950 - 1020	121	Comparison of Laser Ablation Effects to Hypervelocity Impact and Debris Darkening	<u>Gouri Radhakrishnan</u> , Paul M. Adams, Christopher J. Panetta, and Diana R. Alaam
1020 - 1050	114	Shape Effect Analysis Of Aluminum Projectile Impact On Whipple Shields	Maria J. Carrasquilla and <u>Joshua E. Miller</u>
1050 - 1120	169	Benchmarking Asteroid-Deflection Experiments	<u>T.P. Remington</u> , J.M. Owen, P.L. Miller
1120 - 1150	125	Hypervelocity Impacts In The Laboratory On Hot Rock Targets	Morris A.J.W. and <u>Burchell M.J.</u>
Lunch 1150 – 1300			
Topic 6 High velocity penetration mechanics and target response			
1300 – 1330	126	Stress-Wave Propagation And Damage Formation Associated With Hypervelocity Penetration Into Polycarbonate	<u>Nobuaki Kawai</u> , Yuma Kuroda, Mikio Nagano, Sunao Hasegawa, Eiichi Sato
1330 – 1400	143	Voronoi Model And Stress Wave Propagation Simulation Of Open Cell Aluminum Foam Honeycomb Under Hypervelocity Impact	<u>Xiaotian Zhang</u> , Ruiqing Wang, Q.M. Li
1400 – 1430	177	Time-Resolved Measurement Of Deformation Of Metal Plates Due To High-Velocity And Hypervelocity Impacts	<u>Phillip Jannotti</u> , Robert Doney, and Brian Schuster
1430 – 1500	185	Efforts In Modeling Ceramic Failure Due To Impact Loading	<u>Andrew L. Tonge</u> and Brian E. Schuster
Break (Teas and coffees) 1500 – 1510			
1510 - 1540	174	Modeling And Experimental Fragment Impact Testing Of The XM25	<u>Nausheen Al-Shehab</u> , Steven Doremus, Kevin Miers, Benjamin Wong, Jacek Foltynski, Arthur Daniels
1540 – 1610	176	Investigation On Magnetic Effect During Hypervelocity Impact At Different Impact Velocities And Angles	<u>Weidong Song</u>
1610 – 1640	181	Fragment Impact Modeling And Experimental Results For Insensitive Munitions Compliance Of A 120mm Warhead	<u>Kevin Miers</u> , Nausheen Al-Shehab, Daniel Prillaman, David Hunter
1640 – 1710	300	Improvements In Launching Techniques Of An Electric Gun For Hypervelocity Impact Tests	<u>Zhenfei Song</u> , Fuli Tan, Jianheng Zhao
Dinner 1800hrs, location on campus to be confirmed.....			

Tuesday April 25th: Day 2 – on campus at the University of Kent, Canterbury.

Location Keynes College Lecture Theatre 1

Time	Abstract Number	Title	Authors (Speaker underlined)
0800 - 0830	-	Plenary Speaker 1: Mini-RF radar observations of lunar craters: examining ejecta properties and the search for coherent water ice	<u>Angela Stickle</u>
Topic 1 Analytic and Numerical Methodologies			
0840 – 0910	113	A Thermally Dependent Hydrocode Model For An Ultra-High Molecular Weight Polyethylene Laminate Under High And Hypervelocity Impact	S. Austin, A. D. Brown, J. P. Escobedo, H. Wang, <u>P. J. Hazell</u>
0910 – 0940	157	An Improved Contact Algorithm For Multi-Material Arbitrary Lagrangian-Eulerian Hydrocodes In Three-Dimensions	<u>Kenneth C. Walls</u> and David L. Littlefield
0940 – 1010	140	Simulating Hypervelocity Impact Phenomena With Discrete Elements	<u>Erkai Watson</u> and Martin Oliver Steinhauser
1010 – 1040	116	Effect Of Honeycomb Core Under Hypervelocity Impact: Numerical Simulation And Engineering Model	<u>Hong Chen</u> , Alessandro Francesconi, Sen Liu, Shengwei Lan
Break (Teas and coffees) 1040 - 1050			
Poster Session 1			
1050 – 1150		Topics 1, 6, 7, and 8 to be defended	
Lunch 1150 - 1300			
Topic 8 Materials response including EOS			
1300 – 1330	104	Eulerian Hydrocode Predictions Of Richtmyer-Meshkov Instability And Growth	<u>S.P. Rojas</u> and E.N. Harstad
1330 – 1400	168	Linking The Equation Of State For Fiber-Reinforced Composites To Those Of The Individual Fiber And Matrix Constituents	<u>Alexander J. Carpenter</u> , Sidney Chocron, and Charles E. Anderson, Jr.
1400 – 1430	160	A Mesoscale-Based Homogenization Study Of Sand Using The Discrete Element Method	<u>Gerald Pekmezi</u> and David L. Littlefield
1430 – 1500	130	Correlation Between Hot Spots And 3-D Defect Structure In Single And Polycrystalline High-Explosive Materials	<u>Cameron Hawkins</u> , Oliver Tschauner, Zachary Fussell, and Jesse Smith
Break (Teas and coffees) 1500 - 1510			
1510 - 1540	105	Zero To 1,100 M/S In 40 Microns: Sensitive Pulse Shaping For Materials Characterization On Z	<u>Andrew J. Porwitzky</u> , Christopher T. Seagle, and Brian Jensen
1540 – 1610	128	Characterizing In Flight Temperature Of Shaped Charge Penetrators In CTH	<u>P. Sable</u> , N. S. Helminiak, A. Gullerud, E. Harstad, J. Hollenshead, and E. S. Hertel
1610 – 1640	134	Hypervelocity Impact Testing Of Materials For Additive Construction: Applications On Earth, The Moon, And Mars	Erick Ordonez, Jennifer Edmunson, Michael Fiske, Eric Christiansen, <u>Josh Miller</u> , Bruce (Alan) Davis, Jon Read, Mallory Johnston, and John Fikes
1640 – 1710	186	High Pressure Shock Propagation Using A Two Stage Light Gas Gun	<u>T. J. Ringrose</u> , H.W. Doyle, P.S. Foster, M. Betney, J. W. Skidmore, T. Edwards, B. Tully, J.Parkin and N. Hawker
No dinner provided this evening, delegates are free to explore Canterbury			

Wednesday April 26th: Day 3 – in the morning on campus at the University of Kent, Canterbury. Location Keynes College Lecture Theatre 1

Time	Abstract Number	Title	Authors (Speaker underlined)
0800 - 0830	-	Plenary Speaker 2: How Laboratory Hypervelocity Impact Experiments Have Helped Us To Understand Comet Dust Samples	<u>Anton Kearsley</u>
Topic 11 Spacecraft meteoroid debris shielding and failure analysis			
0840 – 0910	132	Introducing Manufacturing Features Into Numerical Modeling Of Hypervelocity Impact Damage Of Composite Pressure Vessels	<u>Aleksandr Cherniaev</u> and Igor Telichev
0910 – 0940	173	Development Of A Numerical Model Of A Hypervelocity Impact Into A Pressurized Composite Overwrapped Pressure Vessel	<u>Garcia, M. A.</u> , Davis, B. A., Miller, J. E.
0940 – 1010	139	Hypervelocity Impact In Low Earth Orbit: Finding Subtle Impactor Signatures On The Hubble Space Telescope	<u>A T Kearsley</u> , J L Colaux, D K Ross, P J Wozniakiewicz, L Gerlach, P Anz-Meador, T Griffin, B Reed, J Opiela, V V Palitsin, G W Grime, R P Webb, C Jeynes, J Spratt, T Salge, M J Cole, M C
1010 – 1040	147	Orion Exploration Flight Test One Post-Flight Inspection And Analysis	<u>Miller, J. E.</u> , Berger, E. L., Bohl, W. E., Christiansen, E. L., Davis, B. A., Deighton, K. D., Enriquez, P. A., Garcia, M. A., Hyde, J. L., and Oliveras, O. M.
Break (Teas and coffees) 1040 - 1050			
1050 - 1120	102	Quantifying Orbital Debris Momentum Transfer Into Satellite Shields Following Hypervelocity Impact, And Its Potential Use In Orbital Debris Flux Prediction	<u>Joel E. Williamsen</u> and Steven W. Evans
1120 - 1150	120	Primary Study On Shielding Performance Of Aerogel/Fiberglass Composite Stuffed In Thermal Insulation Shield	Li Jing, Jiang Lin, Wen Xuezhong, Huang Jie, Luo Qing, Huang Xuegang, <u>Liu Sen</u>
1150 – 1220	188	Advance Orbital Debris Shielding Structure With Impedance-Graded Materials	<u>Zhang Pinliang</u> , Xu Kunbo, Gong Zizheng, Cao Yan, Mu Yongqiang, Wu Qiang
1220 - 1250	180	Considering The Gap Effect And Shape Detail For A Wire Probe Antenna Subjected To Hyper-Velocity Impacts	<u>Kumi Nitta</u> , Masumi Higashide, Atsuh Takeba, and Masahide Katayama
No hunch is provided today – delegates are free to explore the city or local area			
Free time 1250 - 1800			
Dinner 1800hrs, location Leeds Castle (travel details will be provided).			

Thursday April 27th: Day 4 – on campus at the University of Kent, Canterbury.

Location Keynes College Lecture Theatre 1

Time	Abstract Number	Title	Authors (Speaker underlined)
0800 - 0830	-	Plenary Speaker 3: Numerical Modelling of the Chicxulub impact	<u>Dr. Gareth Collins</u>
Topic 10 Solar system Impacts			
0840 – 0910	156	Probing Shock State Distributions In Shock-Compressed Chondrite Precursor Simulants	<u>Michael E. Rutherford</u> and David J. Chapman and James G. Derrick, Jack R.W. Patten, Phil A. Bland, Alexander Rack, Gareth S. Collins and Daniel E. Eakins
0910 – 0940	183	Raman Identification Of Olivine Grains In Fine Grained Mineral Assemblages Fired Into Aerogel	<u>J. E. Wickham-Eade</u> , M. J. Burchell, M. C. Price, L. J. Hicks, J. L. MacArthur and J. C. Bridges
0940 – 1010	179	Impact-Induced Compaction Of Primitive Solar System Solids: The Need For Mesoscale Modelling	<u>T.M. Davison</u> , G.S. Collins and P.A. Bland
1010 – 1040	159	Earth's Hypervelocity Impact Record: Past, Present And Future	<u>John G. Spray</u>
Break (Teas and coffees) 1040 – 1050			
Poster Session 2			
1050 – 1150		Topics 2, 3, 4, 5, 9, 10, 11 and 12 to be defended	
Lunch 1150 – 1300			
Topic 3 Asteroid Impact and Planetary Defence			
1300 – 1330	166	Hypervelocity Impact On Pumice: Scale Effects On Experiments And CTH Simulations	<u>Sidney Chocron</u> , James D. Walker, Alexander J. Carpenter, Don G. Grosch and Daniel D. Durda, Kevin R. Housen
1330 – 1400	167	Momentum Enhancement Due To Hypervelocity Impacts Into Pumice	<u>James D. Walker</u> , Sidney Chocron, Donald J. Grosch, Daniel D. Durda, Kevin R. Housen
1400 – 1430	110	Hypervelocity Impact Of Chondritic Meteorites: Implications For Asteroid Recoil And Disruption	<u>G. J. Flynn</u> , D. D. Durda, E. B. Patmore, S. J. Jack, M. J. Molesky, M. M. Strait and R. J. Macke
1430 – 1500	192	Effects On Irregular Shapes And Rotation Of Asteroid On Asteroid Defense With Space Laser Technology	<u>Wulin Yang</u> , Qiang Wu, Kunbo Xu, Pingliang Zhang
Break (Teas and coffees) 1500 - 1510			
1510 - 1540	194	Modeling Impact Outcomes For The Double Asteroid Redirection Test (Dart) Mission	<u>A.M. Stickle</u> , E.S.G. Rainey, M. Bruck-Syal, J.M. Owen, O.S. Barnouin, C.M Ernst and the AIDA Impact Simulation Working Group
Topic 2 Armour, anti-armour and ballistic technology			
1540 – 1610	131	Behind Armor Effects Of Extending Rod Technology	<u>Brett R. Sorensen</u>
Topic 9 Other			
1610 – 1640	123	Ultra-Fast Rotor For Experiments In Impact Chemistry Of Molecules And Sub-Micron Particles	<u>Daniel E. Austin</u> , Sandra Osburn, Anupriya, Brandon Turner, Dimitri Desarranno, Bob Kline-Schoder
1640 – 1710	189	Investigation On Solar Array Damage Characteristic Under Millimeter Size Orbital Debris Hypervelocity Impact	<u>Xu Kunbo</u> , Zheng JianDong, Gong Zizheng, Cao Yan, Zhang Pinliang, Mu Yongqiang
No dinner provided this evening, delegates are free to explore Canterbury			

Friday April 28th: Day 5 – on campus at the University of Kent, Canterbury.

Location Keynes College Lecture Theatre 1

Time	Abstract Number	Title	Authors (Speaker underlined)
Topic 4 Fracture and Fragmentation			
0800 – 0830	142	A Study Of The Effect Of Aspect Ratio On Fragmentation Of Explosively Driven Cylinders	<u>Tom De Vuyst</u> , Rade Vignjevic, James C. Campbell, Andreas Klavzar, and Marina Seidl
0830 – 0900	113	A Closed Form, Energy Based Theory Of Dynamic Fragmentation	<u>Justin C. Sweitzer</u>
0900 – 0930	127	Characterizing In Flight Temperature Of Explosively Formed Projectiles In CTH	P. Sable, <u>N. S. Helminiak</u> , E. Harstad, A. Gullerud, J. Hollenshead, and E. S. Hertel
0930 – 1000	141	Fragment Tracking In Hypervelocity Impact Experiments	<u>Erkai Watson</u>
Break (Teas and coffees) 1000 – 1010			
1010 – 1040	164	Examination Of Statistical Strength Measurements In Computational Fracture Calculations For High Speed Impacts	<u>Michael Hopson</u> , Susan Bartyczak and Christine Scott
Topic 5 High velocity launchers and diagnostics			
1040 – 1110	171	Using Laser Driven Micro-Flyers To Study Deformation Mechanisms	<u>Dejoy Mallick</u> , Matthew Shaeffer, and KT Ramesh
1110 – 1140	193	The Hypervelocity Impact Facility At The University Of Kent: Recent Upgrades And Specialised Capabilities	<u>R. Hibbert</u> , M. J. Cole, M. C. Price and M. J. Burchell
Society Open Meeting 1140 - 1230			
Lunch (bagged lunch) 1230 in Foyer outside lecture theatre			
Meeting ends			

HVIS 2017.

This is the summary of posters, stating which session in which each will occur.

There are two poster sessions: Tuesday and Thursday.

All posters will be displayed all week, and can be put up on the Monday. Those who are named in the Tuesday Session should be attend their poster that day to defend it. Those who are named in the Thursday Session should be attend their poster that day to defend it. This way, even those defending posters will be free for one session to go round the other posters.

Tuesday: Poster Session 1

Posters to be defended are from topics: 1, 6, 7 and 8

Topic 1: Analytic and Numerical Methodologies

Id	Authors	Title
151	Witzig, Tillman and Wilbeck	A Modified Meshless Finite-Mass Method With Material Strength
117	Sergey K. Buruchenko, Christoph M. Schaefer and Thomas I. Maindl	Smooth Particle Hydrodynamics GPU-Acceleration Tool For Asteroid Fragmentation Simulation
170	Shannon L Lisenbee and David L Littlefield	Development Of A Multi-Reaction Material Model For Aluminized Explosives
197	V. Kartuzov, I. Kartuzov, O. Mikhaylov	Computer Modeling Of Process Of Projectile's Penetration Into Discrete - Element Armor Panel

Topic 6: High velocity penetration mechanics and target response

Id	Authors	Title
138	Masahiro Nishida, Fumiya Kodama, Koichi Hayashi, Yasuhiro Akahoshi, Kazuyuki Hokamoto, Tsuyoshi Mayama, Michiaki Yamasaki, Yoshihito Kawamura	Ejecta From LPSO-Type Magnesium Alloy Targets In Hypervelocity Impact Experiments
103	Alexander V. Gerasimov and Sergey V. Pashkov	The Interaction Of High-Velocity Projectiles With Groups Of Rods And Plates
148	W. Casey Uhlig and Matthew J. Coppinger	Hydrocode Simulations Of Liquid Filled Channels For Understanding Erosion In Shaped Charge Jet Penetration.
149	Miller, J. E., Lyons, F., Christiansen, E. L. and Lear, D. M.	Failure Mechanisms Of Ni-H2 And Li-Ion Batteries Under Hypervelocity Impacts
301	Jianheng Zhao, Zhenfei Song, Fuli Tan	Ballistic Limiting Curves Of A Whipple Under An Impact Of A Flyer Film

Topic 7: Hypervelocity phenomenology studies

Id	Authors	Title
162	Yanwei Li, Anna Mocker, Sebastian Bugiel and Ralf Srama	Comparison Of Impact Charge Signal And Crater Morphology Created By Micron Sized Grains With Oblique Incident Angles
119	Lan Sheng-wei, Liu Sen, Qin Jingui, Ren Leisheng, Huang Jie	Comparison Of Crater Behavior Of Water Ice By Low And High Density Projectiles Under Hypervelocity Impact
124	Shogo TAGAMI , Mariela Rojas Quesada , Takao KOURA and Yasuhiro AKAHOSHI	Discharge On Solar Array Coupon By Debris Impact

Topic 8: Materials response including EOS

Id	Authors	Title
144	David Wood, Gareth Appleby-Thomas, Brianna Fitzmaurice, Andrew Roberts and Amer Hameed.	Comparison Of Synthetic Bone Simulant With Real Bone With Respect To Shock Loading Poster withdrawn
150	Gareth J. Appleby-Thomas, Nick Jasper, D. Day, David C. Wood, Andrew Roberts and Jonathan Painter.	On The Dynamic Response Of Two Armour-Relevant Grades Of Aluminium (Al 5083 And Al 7010) Poster withdrawn
172	Konstantin V. Khishchenko	Equation Of State For Water At High Dynamic Pressures
118	Liu Hai, Huang Jie, Zhou Zhi-xuan, Ma Zhao-xia	Atomistic Simulations Of Elastic-Plastic Transformation In Nickel Single Crystals Under Shock Loading
122	Zachary Fussell, Oliver Tschauner, Cameron Hawkins, Chi Ma, and Jesse Smith	Shock Recovery Of The High Pressure Phase Bismuth Iii
173	Garcia, M. A., Davis, B. A., Miller, J. E.	Development Of A Numerical Model Of A Hypervelocity Impact Into A Pressurized Composite Overwrapped Pressure Vessel
184	Sikhanda Satapathy, Cyril Williams and Naresh Thadani	Shock Experiments To Evaluate Multi-Axial Stress Response Of Tib2
196	B.A. Galanov, S.M. Ivanov, V.V. Kartuzov*, I.V. Kartuzov, A.A. Pryadko	Comparative analysis of response to high velocity impact of new ceramic materials based on high-boron compounds developed at IPMS NASc of Ukraine

Thursday: Poster Session 2

Posters to be defended are from topics: 2, 3, 4, 5, 9, 10, 11 and 12.

Topic 2: Armour, anti-armour and ballistic technology

Id	Authors	Title
136	Latif Kesemen and Altan Kayran	High Strain Rate Material Characterization Of Al 7075-T651 By Modified Taylor Impact Test And Velocity Interferometry: Poster withdrawn
152	Andrew Roberts, Gareth Appleby-Thomas, David Wood, Amer Hameed	On The Optimization Of Small Arms Defeat Via Jacket Removal. Poster withdrawn
197	Minhyung Lee, Seunghwan Lee, Sangwon Park, Ilguk Jo and Sangkwan Lee	Analysis Of Metal Matrix Composite(Mmc) Applied Layered Armour System

Topic 3: Asteroid Impact and Planetary Defence

Id	Authors	Title
115	Masaya IKEDA, Masashi TANAKA, Daisuke YOKOO, Takao KOURA, and Yasuhiro AKAHOSHI	Study Of The Effects Of Projectile Shape In The Asteroid Orbit Change By Spacecraft Impact
129	Tamra Heberling, Galen Gisler, Cathy Plesko, Bob Weaver	Calculating The Momentum Enhancement Factor For Asteroid Deflection Studies
153	Brianna Fitzmaurice, Gareth Appleby-Thomas, Jonathan Painter, David Wood and Rachael Hazael	One-Dimensional Dynamic Loading And Temperature Control Of Model Micro-Organisms Poster withdrawn

Topic 4: Fracture and Fragmentation

Id	Authors	Title
191	Arne Gullerud and Jeromy Hollenshead	Coupled Euler-Lagrange Simulation Of Metal Fragmentation In Pipe Bomb Configurations: Oral Presentation
175	Christopher S. Meredith, Brian Leavy and Todd W. Bjerke	Mode I Failure Of Armor Ceramics: Experiments And Modeling
145	Caitlin Gilroy, Jonathan Painter and Amer Hameed.	The Effect Of Different Energetic Materials On The Fragmentation And Microstructure Of Steel Pipe Bombs Poster withdrawn

Topic 5: High velocity launchers and diagnostics

Id	Authors	Title
163	Camille Chauvin, Frédéric Zucchini, Frédéric Sinatti and Philippe Combes	Shock-Induced Phase Transition Of Tin: Limit Of Common Diagnostics And Towards X-Ray Diffraction
161	Anna Mocker, Sebastian Bugiel, Yan-Wei Li, Jonathan Hillier, Klaus Hornung, Jonas Simolka, Heiko Strack and Ralf Srama	Hypervelocity Impact Experiments With A Small 100kv Electrostatic Accelerator

Topic 9: Other: There are no posters for this topic.

Topic 10: Solar System Impacts

Id	Authors	Title
165	Hannah C.M. Susorney, Olivier S. Barnouin, Carolyn M. Ernst, David A. Crawford, and Mark J. Cintala	The Role Of Target Heterogeneity In Impact Crater Formation: Numerical Results
178	James G. Derrick, Michael E. Rutherford, Thomas M. Davison, David J. Chapman, Daniel E. Eakins and Gareth S. Collins	Interrogating Heterogeneous Compaction Of Meteoritic Material At The Mesoscale Using Analog Experiments And Numerical Models
187	Patrick M. Gislser	Evidence For Ultra Hypervelocity Impacts In The Solar System
195	L.S.Alesbrook, M.C.Price, P.J.Wozniakiewicz, M.J.Cole, C.Avdellidou , M.J.Burchell	Atmospheric alteration to millimeter size projectiles using the Kent Light Gas Gun

Topic 11: Spacecraft meteoroid debris shielding and failure analysis

Id	Authors	Title
190	Qiang Wu, Qingming Zhang, Zizheng Gong, Wulin Yang, Pinliang Zhang and Kunbo Xu	Shielding Properties Investigation Of Impact-Initiated Energetic Materials Under Hypervelocity Impact
137	Takayuki Hirai, Masumi Higashide, Hirohisa Kurosaki, Shirou Kawakita, Yuki Mando, Shota Yamaguchi, and Koji Tanaka	Re-Examination Of Electrical Failure Risk On Satellite's Power Harnesses Caused By Space Debris Impacts: Simultaneous Measurements Of Sustained Discharge And Plasma Density
154	P. Deconinck, J. Mespoulet, P-L Héreil, H. ABDULHAMID and C. Puillet	Experimental And Numerical Study Of Submillimetric Hypervelocity Impacts On Honeycomb Sandwich Structures
101	William P. Schonberg J. Martin Ratliff	Ballistic Limit Equations For Non-Aluminum Projectiles Impacting Dual-Wall Spacecraft Systems
135	James Chinn and Martin Ratliff	Challenges Of Debris-Impact Risk Assessment For Robotic Spacecraft
155	J. Mespoulet, P-L Héreil, P. Deconinck, H. ABDULHAMID and C. Puillet	Experimental Study Of Hypervelocity Impacts On Space Shields Above 8 Km/S

Topic 12: Theoretical Applied Mechanics:

182	Robert J. Dorgan, Joseph T. Maestas, Richard J. Lee, Eric J. Welle	The Capability Of Reactive Burn Model Parameterizations To Predict Ignition Response To Shaped Charge Jets Withdrawn
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Notes