TUESDAY, AUGUST 12

7 – 7:45 a.m. Continental Breakfast in Exhibit Hall

7 a.m. – 5 p.m. Exhibit Hall Open

7 a.m. – 5 p.m. Registration Open

8 – 9:45 a.m. Opening General Session – Indian Wells Ballroom
Mr. Thierry Chiapello, Chief of Staff, DDESB
Mr. Curtis Bowling, Chairman, DDESB
Mr. Alex Beehler, Assistant Deputy Under Secretary of Defense (Environment, Safety, and Occupational Health)
Mr. Dan McFerrin, Program Director Iraq, Air Force Center for Engineering and the Environment, ECCI International

	A – Agave	B – Date Palm	C – El Dorado
	9:45 – 10:20 a.m. Break in Exhibit Hall		
10:20 a.m. – Noon	1. Explosives Safety Siting I – *Mr. David Shatzer* ♦ Explosive Safety Siting (ESS) Software for Army Garrisons in Installations – *Tommy Hunt* ♦ Automated Explosives Safety Siting in the DoD – *Phillip Wager* ♦ Demonstration of the Explosives Safety Siting (ESS) Software – *Phillip Wager* ♦ Explosives Hazard Reduction (EHR) Study at Osan AB, Korea – *James Wassenberg* ♦ Protection from Blast Walls and Assessment of a Fire Suppression System – *L. Javier Malvar*	2. International Standardization and Cooperation – *Mr. Jim McLay* ♦ Best Practice and Regulations – Do We Need More Manuals or Less? – *Bengt Vretblad* ♦ Standard Test Methods and Data Presentation in Vertical and Horizontal Processes – *Stephen Tanner* ♦ Program to Prevent Weapons and Ammunition from becoming a Risk to the General Public – *Hans Øiom* ♦ DoD Explosives Safety Board Hazard Classification Procedures (TB 700-2) – *Josephine Covino*	3. Structures – Protective Construction – *Dr. Firooz Allahdadi* ♦ Update of Army Technical Manual 5-1300/NAVFAC P-397/AF 88-22 – *William Zehrt Jr.* ♦ Structural Design Considerations for Masonry Walls Strengthened with FRP – *Matthew Edel* ♦ Design of Modular Blast-Resistant Steel-Framed Buildings – *Paul Summers* ♦ Substantial Dividing Walls in Protective Construction – *Patrick Acosta* ♦ Performance of Blast-Damaged Steel Connections in Progressive Collapse Analysis – *John Puryear*
	Noon – 1:30 p.m. Lunch Program Army Safety Program and Initiatives – *Mr. J.C. King, Office of Deputy Assistant of Army for Environment, Safety and Occupational Health* Overview of the US Army Defense Ammunition Center – *Mr. Gary B. Carney, Director, US Army Defense Ammunition Center* US Army Technical Center for Explosives Safety and SWA Initiatives – *Mr. Ken Williams, Associate Director of the US Army Technical Center for Explosives Safety* Operational Safety Initiatives – *Mr. Larry Baker, Ammunition, Explosives, Ranges Safety Manager, US Army Forces Command (FORSCOM)*		
1:30 – 3:10 p.m.	4. Explosives Safety Siting II – *Captain David Lepard* ♦ Comparative Analysis of Existing Automated Explosive Safety Site Planning Tools – *Johnathan Stacy* ♦ Applying Web Technology for Explosives Safety Siting – *Larry Becker* ♦ A Simple Spreadsheet Quantity-Distance Calculator for Most Siting Applications – *Mark Peterson* ♦ Explosive Siting Center of Excellence: Team Approach to Explosive Site Planning – *Albert Webb* ♦ Blast Resistant Portable Buildings in Explosive Operating Areas – *Ben Harrison IV*	5. Explosives Safety Program Management – *Mr. Gary Carney* ♦ Transforming the DoD Explosives Safety Board August 2005 Through Present and Future – *Thierry Chiapello* ♦ DND/CFs New Regulatory Framework for Ammunition and Explosives – *Andre Pelchat* ♦ Improving the Management of Explosives Safety Data through Electronic Tools – *James Elligson* ♦ A Model for Weapon Systems Ordnance Assessment – *Bruce Thomas* ♦ Protection and Survivability of Compounds – *Jolanda van Deursen*	6. Structural Design and Response Models I – *Mr. Peter Kummer* ♦ Importance of Inertia Effects in Progressive Collapse Simulation of Steel Frame Buildings – *Stefan Szyniszewski* ♦ Building Damage Database and Structural Component Library – *Mehmet Ozbey* ♦ Fike® Corporation's Explosion Mitigation for Ultra-High Speed Munitions Fires – *John Hawk* ♦ High Strain-Rate Testing of Mechanical Couplers – *Stephen Rowell*
	3:10 – 3:30 p.m. Break in Exhibit Hall		
3:30 – 4:50 p.m.	7. Barricades / Mitigations – *Mr. Frank Johnson* ♦ A Comparison of Water and Sand Filled Modular Protection Barriers – *Malcolm Thomson* ♦ Experiments to Support Unitization of Risk in Explosives Laboratories – *Helen Flower* ♦ Use of Sandbags for Mitigation of Fragmentation and Blast Effects due to Intentional Detonation of Munitions – *Susan Hamilton* ♦ Barricade Testing in the SciPan Test Series – *Michael Swisdak* ♦ New Detonation System DAVINCH for Chemical Weapons in Belgium – *Joseph Asahina*	8. Explosives Safety Policy – *Captain Jacqui King* ♦ Developments in Explosives Competence, Training and Education in the UK – *Ian Wallace* ♦ The UK MOD Approach to Sustain and Assure Competence in WOME – *Rob Parry* ♦ Euexert II – Certifying Experience in the European Explosives Sector – *Erik Nilsson* ♦ Measuring Competence in the UK Explosives Industry – *Denise Clarke* ♦ Enforcement in MOD Explosives Sector – *Stuart Hooper*	9. Structural Design and Response Models II – *Mr. Jeff Coulston* ♦ Fast Running Model for the Residual Capacity of Bomb-Damaged Steel Columns – *George Lloyd* ♦ Finite Element Models for the Analysis and Design of CMU Walls to Blast Loads – *Joseph Magallanes* ♦ Blast Solver Validation – *Andreas Dörr* ♦ Validating Blast Effect of Concrete Against Underwater Explosion using DYSMAS – *Michael Dunn*
	6 – 8 p.m. Opening Reception in Exhibit Hall		

WEDNESDAY, AUGUST 13

7 – 8 a.m. Continental Breakfast in Exhibit Hall

7 a.m. – 5 p.m. Exhibit Hall Open

8 a.m. – 5 p.m. Registration Open

	A – Agave	B – Date Palm	C – El Dorado
8:10 – 10 a.m.	10. Debris / Fragments I – *Mr. Lim Chee Hiong* ♦ Development of a Novel Debris Lethality Model and Related Testing – *Peter Kummer* ♦ Roof Deck Response to the Dynamic Loads from a Fireworks Launch – *Ettore Contestabile* ♦ Numerical Approach for Modeling Break-up of Reinforced Concrete Structures – *Heng Soon Lim* ♦ ISO-2: Program Description and Data Summary – *Michael Swisdak* ♦ ISO-2: Debris Catalogue Organization and Visualization – *John Tatom*	11. Explosives Safety in Contingency and Combat Operations I – *Mr. Andre Pelchat* ♦ Storage Method for Small Amounts of Linked 40mm Grenades (Drum Magazine) – *Michelle Crull* ♦ Handbook for the Physical Protection for Ammunition Storage in Operations – *Michael Steyerer* ♦ Tests and Products for "Handbook for the Physical Protection Ammunition Storage in Operations" – *Torsten Lindner* ♦ Design Options for Ammunition Storage Structures in an Operational Environment – *Andreas Heckersbruch*	12. Risk Assessments, Management and Communication – *Dr. Bengt Vretblad* ♦ Calculation and Communication of Explosive Risk Considering Uncertainty and Bias – *Jon Collins* ♦ Quantitative Comparative Risk Assessment Method – *William LeBoeuf* ♦ DoD Quantitative Probabilistic Risk Analysis – *Arthur Barondes* ♦ Strike-QRA: A Quantitative Risk-Based Assessment Tool for Lightning Protection – *Josephine Covino* ♦ Looking Back on 2,500 Years of Risk Management – *Kenneth Proper*
	10 - 10:20 a.m. Break in Exhibit Hall		
10:20 a.m. – Noon	13. Debris / Fragments II – *Mr. Owen Greulich* ♦ Methodologies for Calculating Primary Fragment Characteristics – *Michelle Crull* ♦ Analysis of the Kasun II – Break Up Tests with Small "Ammunition Houses" – *Heng Soon Lim* ♦ The Klotz Group Engineering Tool Software for Debris Throw Predictions (KG-ET) – *Andreas Dörr* ♦ Strength of Structural Silicone Glazing Joints Under Blast Loading – *Paul Hooper* ♦ Estimating the Risk Rates of the Brazilian War Materiel Industry – *Demetrio Bastos-Netto*	14. Explosives Safety in Contingency and Combat Operations II – *Lieutenant Colonel Andreas Heckersbruch* ♦ Canadian Ammunition Support Challenges in Afghanistan – *Jean-Francois Lemoyne* ♦ Removing IED Threat Material in Iraq and the Safety Issues Involved – *William Sargent* ♦ NLD Protective Structures in the Field – *Marnix Rhijnsburger* ♦ Nitrous Oxide Explosive Hazards – *Claude Merrill* ♦ Assessment of Explosives Limits for Ports – *Stuart Hooper*	15. Risk Analysis Methods – *Mr. Kenyon Williams* ♦ DoD Risk-Based Explosives Safety Criteria Team – Report on Progress and Future Priorities – *Jerry Ward* ♦ The Status of Risk Assessment in the Commercial Explosives Community – *John Tatom* ♦ A Comparison of Safety Levels Provided by Published Numerical Risk Criteria – *Tom Pfitzer* ♦ Applying System Safety to COTS within the DoD – *Kevin Carr* ♦ Risk Assessment Methodology for Siting Explosives – *Arthur Barondes*
	Noon – 1:30 p.m. Lunch Program Manning and Training for Explosives Safety in the Air Force; Status of Site Planning and Automation; Conventional Weapons Design Safety *Mr. Al Webb, Headquarters Air Force Safety Center*		

Thank you Abstract Selection Committee, Presenters, Moderators, and Exhibitors!

WEDNESDAY, AUGUST 13, continued			
	A – Agave	B – Date Palm	C – El Dorado
1:30 – 3:10 p.m.	16. Explosion Effects Testing I – *Mr. Don Porada* ♦ Mitigation Research for Explosives Ordnance Disposal Operations – *Brian Young* ♦ Liquid Propellant Air Blast Yields for Intact Impacts of Large Launch Vehicles – *Ron Lambert* ♦ Project Eskimore – The DDESB Long-Term Testing Initiative – *Michael Swisdak* ♦ Blast-Resistant Highway Bridges: Design and Detailing Guidelines – *Carrie Holland* ♦ Results of the Norwegian – Swedish Field Storage Validation Trial – *Geir Arne Gronsten*	17. Lightning Protection – *Dr. John Tobias* ♦ 21st Century Lighting Safety for Environments Containing Sensitive Electronics, Explosives and Volatile Substances – *Richard Kithil* ♦ Grounding System Design and Measurement for Critical Installations – *Mitchell Guthrie* ♦ Lightning Protection for Critical Explosives Operations – *Mitchell Guthrie* ♦ Reducing the Risk of Flashovers in the Design of Underground Ammo Storage – *Ho See Fong* ♦ The Effectiveness of Lightning Protection for UK Military Explosives Facilities – *Paul McClements*	18. Risk Management Applications I – *Mr. Hans Øiom* ♦ Risk Assessment and Its Use in Explosives Licensing – *Jon Henderson* ♦ The Port of Poti: A Case Study in Risk Assessment of a Commercial Port – *Thomas Taylor* ♦ Risk Analysis for Forward Operation Bases Rocket Artillery Mortar (RAFOB-RAM) – *Martin Voss* ♦ Risks of Aircrafts Armed with Live Ammunition on Airfields in Peace Time – *Andreas Bienz* ♦ Analysis of the Safety of Personnel using Bayesian Belief Networks (BBN) – *Martijn van der Voort*
3:10 – 3:30 p.m. Break in Exhibit Hall			
3:30 – 4:50 p.m.	19. Explosion Effects Testing II – *Mr. Bruce Elliott* ♦ Curtainwall Test Facility – *Jason Metzger* ♦ Urban Environment Test Facility - *Michael Stanley* ♦ Blast Effects Testing With Fuel-Air Shock Tube – *Jerome Lattery* ♦ FLEX FE Models and Full Scale Tests of Blast Loaded Reinforced Concrete Columns – *Darell Lawver* ♦ Empirically Based Explosion Damage Assessment Models for Modern Structure Types – *Jon Henderson*	20. Explosion Hazard Assessment Models – *Mr. Andreas Dörr* ♦ Prediction and Reduction of Injuries Due to Window Failure – *Jaap Weerheijm* ♦ Debris Throw Hazard from Vehicles Transporting Explosives – *Peter Nussbaumer* ♦ The Science of SAFER 3.03 – *John Tatom* ♦ Comparison of Debris Throw Modeling with KG-ET Software, SAFER and RiskWing – *Jaap Weerheijm*	21. Risk Management Applications II – *Mr. Patrick Lamy* ♦ A Risk Management Concept Combining the Disciplines of System Safety, Range Safe – *Tom Pfitzer* ♦ Catastrophe Risk Management and Evaluation of Maximum Probable Loss for Explosions – *Paul Wilde* ♦ Risk-Based Explosives Siting Study for a Delta II Missile at Cape Canaveral – *Jon Chrostowski* ♦ Expert Prediction of UXO Explosion Probability – *Jacqueline MacDonald* ♦ The Application of Debris and Fragment Throw Models in Risk Assessment Methods – *Martijn van der Voort*
THURSDAY, AUGUST 14			
7 – 8 a.m. Continental Breakfast in Exhibit Hall			
7 a.m. – 5 p.m. Exhibit Hall Open			
8 a.m. – 5 p.m. Registration Open			
	A – Agave	B – Date Palm	C – El Dorado
8:10 – 10 a.m.	22. Hazard Classification I – *Mr. G. Edward Walseman* ♦ Comments and Position Regarding the Proposed TB 700-2 Rewrite Dated June 2007 – *Daniel Schwartz* ♦ Hazard Classification of 76mm Naval Gun Ammunition following UN Test Series 6 – *Audrey Lao Linmei* ♦ External Means of Initiation for the Hazard Classification of Rocket Motors – *Kevin Carr* ♦ Interactive Database for Comparing Pin Data from Solid Propellant Testing – *Eric Atchley* ♦ Characterization of Event Yields with a Discussion of Possible Causes for the Observed Output (or Where Has All the Output Gone?) – *Michael Swisdak*	23. Accidents – *Mr. Roger Swanson* ♦ Status of the Joint Services Accident Evaluation Working Group – *Kristene Bigej* ♦ An Evaluation of Recent Explosive Mishaps at Naval Surface Warfare Center Indian Head Division – *Paul Wallman* ♦ Review of an Interesting Accident at an Ammunition Production Facility – *Lyn Little* ♦ Hazards to Wood Trailers in HE Process Areas – *Mark Whitney* ♦ F-18 Parachute Deployment Rocket Motor Incident – *Craig Wheeler*	24. Munitions Response I – *Mr. J. C. King* ♦ Managing Munitions Debris and Range-Related Debris – *Timothy Alexander* ♦ UXO Options Analysis, CFAD Bedford, Halifax, Nova Scotia - *Al Larkins* ♦ Surf City and Ship Bottom NJ TCRA, a Partnership in Safe MEC Removal – *George Follett* ♦ Dredging in Sediment Containing MEC – *George Follett* ♦ General Data Trends Found From Final Site Reports Inspection – *James Manthey*
10 – 10:20 a.m. Break in Exhibit Hall			
10:20 a.m. – Noon	25. Hazard Classification II – *Mr. Mark Skogman* ♦ Combined Fast Cook-Off / Fuel Fire Test on a 50 Inch Diameter Solid Rocket Motor – *Bryan Hursman* ♦ Sub-Scale Fast Cook-Off Testing Results – *Kevin Ford* ♦ Friability Studies of Solid Energetic Materials – *Alice Atwood* ♦ Bullet Attack Tests on Lightly Confined HMX-Based Explosives – *Andrew Jones*	26. Personnel Protection and Hazards Analysis – *Colonel Barry Olson* ♦ Injury Assessment for Blast Induced Whole Body Displacement – *Marike van der Horst* ♦ Wrap-Around Pressure Mitigation in High Explosive Processing Facilities – *Benjamin Yeamans* ♦ Ammunition Peculiar Equipment, Equipment and Systems Safety – *Barry McCall* ♦ Polycarbonate Glazing System Testing – *Darrell Barker* ♦ TSWG Terrorist Bomb Hazard Reference Cards Revision – *Patricia Bowles*	27. Munitions Response II – *Mr. Tom Swierk* ♦ Former Fort Ord Early Transfer and Military Munitions Response Privatization – *Aimee Houghton* ♦ MRSPP Trends Found from Final Site Inspection Reports – *James Manthey* ♦ Nitrocellulose Drums: An Interagency Demilitarization Success – *Paul Greene* ♦ Explosive Safety Principles Applied to Decontamination / Demolition of Facilities – *Robert Ford*
Noon – 1:30 p.m. Lunch Program *Captain Bob Fowler, Mr. Richard Adams, Mr. John Dow* *Naval Ordnance Safety and Security Activity (NOSSA)*			
1:30 – 3:10 p.m.	28. Insensitive Munitions – *Mr. Mathew Beyard* ♦ MSIAC - Supporting Member Nations Across the Life Cycle of Munitions – *Tom Taylor* ♦ Subscale Screening of Solid Propellants to Support the Army IM Program – *William Chew* ♦ Explosive Train Scale IM Testing of New Energetic Materials – *T. T. Griffiths* ♦ Test Once for Hazard Division Classification and Insensitive Munition Assessment – *Peter Barnes* ♦ Enhanced Qualification Testing of Energetic Materials – *Peter Barnes*	29. Explosives Safety Applications – *Mr. Lon Santis* ♦ Nitrogen Inertisation System for Ammo Storage – *Rick Tan Y.K.* ♦ Using Thermal Convection to Neutralize Explosives from Equipment / Facilities – *William Ingold* ♦ Polymeric Materials for Structural Protection: Beyond Research into Actual Use – *David Palermo* ♦ Premature Explosion of an Oil Well Simulation Test – *Carl James Dahn* ♦ Assessment of Personal Protective Clothing for Protection Against Fire Hazards – *Rebecca Baghurst*	30. Demilitarization and Disposal – *Mr. John Knight* ♦ Explosives Ordnance Disposal Operations and Mitigation Advice – *Steve Bowen* ♦ Ammunition Demil Scrap "How Clean is Safe" – *Tyrone Nordquist* ♦ Recent Experience of Explosives Facilities Decommissioning – A UK perspective – *Stuart Drennan* ♦ Integration of Demil and Recycling Contractors for Improved Process Safety – *Paul Miller* ♦ Spartan First Stage Rocket Motor Demilitarization – *Jeff Lee*
3:10 – 3:30 p.m. Break in Exhibit Hall			
3:30 – 4:50 p.m.	31. Thermal Effects and Hazards Assessments – *Mr. Thom Boggs* ♦ The Burn to Violent Reaction (BVR) Test – *William Thomas* ♦ Human Exposure Considerations for Siting of HD 1.3 – *Owen Greulich* ♦ Ignition of Energetic Materials from Heat Fluxes Found in Hazard Situations – *Ephraim Washburn* ♦ Uncertainty in Propellant Fire Heat Flux – An Experimental and Modeling Approach – *Sheldon Tieszen* ♦ Two Methods for Testing Solid Propellant Ignition Behavior at Lower Heat Flux Levels – *Travis Laker*	32. Air Blast Studies and Models – *Mr. Gerald Meyers* ♦ Accuracy of Blast Prediction – *Rolf van Wees* ♦ The Escape of Blast from Fragmenting Munitions Casings – *Michael Hutchinson* ♦ Improving the Accuracy of Blast Parameters Using a New Friedlander Curvature α – *Jody Borgers* ♦ ENPACT Sound Propagation Model – *Robert Abernathy*	33. Explosives Containment Testing – *Ms. Linda James* ♦ Proof Testing of the D-100 Contained Detonation Chamber – *Johnny Waclawczyk* ♦ TNT Equivalence Inside Blast Containment Chambers – *Kim King* ♦ Controlled Detonation Chamber and Transportable Detonation Chamber Technology Up – *Cliff Doyle* ♦ Preliminary Design for a 100-kg Blast Containment Chamber – *Johnny Waclawczyk* ♦ Using Arrhenius Equations to Predict Thermal Destruction of Energetic Materials – *Harley Heaton*