The (US) National Exercise Simulation Center (NESC) is making exercises more useful and relevant through a prototype solution that addresses modeling and simulation interoperability and scalability will be showcased. Increasingly, modeling and simulation technologies are proving to be a cost-effective method of improving preparedness and capacity to mitigate acute contingencies. CRISMART’s research is headed by the staff in Stockholm, and conducted in collaboration with partners in Sweden and around the world. All of CRISMART’s analytical support and educational activities are based on scientifically documented experiences of national and international crisis management. Since the mid 1990s, CRISMART has trained decision-makers at all levels and in a number of sectors in Sweden and abroad. This presentation will describe CRISMART and associated research that is applied to preparedness and response scenarios.

Keywords: cooperation; international; research; technology

National Center for the Study of Preparedness and Catastrophic Event Response
Dr. Lynn Goldman, MD, MPH
National Center for the Study of Preparedness and Catastrophic Event Response, Co-Principal Investigator Johns Hopkins University School of Medicine, Baltimore, Maryland USA

The mission of the (US) National Center for the Study of Preparedness and Catastrophic Event Response (PACER) is to improve the nation’s preparedness and the ability to respond in the event of a high-consequence disaster, and alleviate the effects of the event by developing and disseminating, to changes and optimization of command and control using virtual reality and immersive environments, a wide array of emerging and maturing technologies are being adapted and deployed for the use of emergency and disaster personnel.

The US Department of Homeland Security’s (DHS) science and technology is in the forefront of developing innovative technologies to provide emergency managers and operators a capability to effectively, economically, and rapidly verify and validate response tactics, plans, and procedures. These technologies also are used to conduct “what-if”-type analyses prior to an incident (preparedness, analysis, and training) and during/after an incident (operational, lessons learned). The science and technology approach to developing these technologies is to provide training and exercises (real time) and analysis of alternative response tactics (non-real time). As part of this research effort, DHS is developing a common framework to allow for the rapid integration of existing incident-related modeling and simulation tools and use of virtual worlds to enhance the user experience. This technology is intended to enhance the understanding of the impacts and consequences of complex incidents to improve planning and response for increased effectiveness of procured resources and reduce the loss of life and property.

Keywords: emergency; disaster; preparedness; response; science; technology

Prehospital and Disaster Medicine http://pdm.medicine.wisc.edu Supplement

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International Cooperation in Bringing Technology Out of the Laboratory and into the Field
Dr. Eric Stern
Director, CRISMART National Defense College, Sweden

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