

CARNEGIE MELLON CONFERENCE ON CRISIS READINESS

PRELIMINARY AGENDA

Tuesday, February 28, 2006 • Hart Senate Office Building, Room 911

INTRODUCTION

8:30 a.m. Registration and continental breakfast

9:00 a.m. Opening remarks: *Norman P. Neureiter, Director, AAAS Center for Science, Technology, and Security Policy*

9:10 a.m. Domestic security and engineered civil systems — an overview: *M. Granger Morgan, Head, Department of Engineering & Public Policy*

9:20 a.m. Questions and discussion

SESSION I: SECURING THE SUPPLY OF SAFE WATER

9:30 a.m. Overview on water supply and distribution system vulnerabilities:

The potential for modeling, sensors, and data mining to provide an early warning system to protect the integrity of our water supply. *Jeanne VanBriesen, Paul and Norene Christiano, Faculty Fellows, Civil & Environmental Engineering*

9:50 a.m. Using chlorine sensors to look for multiple biological/chemical threats:

A discussion of current limitations in sensors and how these might be overcome in the short term through coupling surrogate sensors with baseline modeling and data analysis. *Damian Helbling, Researcher, Department of Civil & Environmental Engineering*

10:00 a.m. Questions and discussion

SESSION II: SECURING CRITICAL SOCIAL SERVICES WHEN THE LIGHTS GO OUT

10:10 a.m. Overview of grid failure issues: While measures can be taken to reduce the number of large-scale power losses due to failures of the generation and high-voltage transmission grid, such failures cannot be eliminated. It is more feasible to develop measures directed to assuring the continuation of essential

missions even after the grid has failed. *Jay Apt, Executive Director, Carnegie Mellon Electricity Industry Center*

10:40 a.m. Controlling the power system with distributed autonomous agents.

Paul Hines, Doctoral Student, Engineering & Public Policy

10:50 a.m. Potential security benefits of distributed generation. *Hisham Zerriffi, Post-Doctoral Scholar, WRI*

11:00 a.m. Questions and discussion

11:15 a.m. Morning break

SESSION III: RELIABLE COMMUNICATIONS FOR FIRST RESPONDERS

11:30 a.m. *Jon Peha, Professor, Engineering and Public Policy*

11:50 a.m. Questions and discussion

SESSION IV: COMMUNICATING WITH THE PUBLIC ABOUT TERRORISM

12 p.m. Public understanding of risks is key in responding to threats, ensuring informed discussion of policy options, and maintaining public morale. An efficient standard of public communication could be attained in a cost-effective way that could improve risk analysis and management, as well as satisfy the public's need to be informed. *Baruch Fischhoff, Professor, Social & Decision Sciences and Engineering & Public Policy*

12:30 p.m. Questions and discussion

LUNCH & KEYNOTE ADDRESS

12:45 p.m. Keynote: *Mel Bernstein, Director of University Programs, Department of Homeland Security*

SESSION V: DIRTY BOMBS AND SMALL NUCLEAR DEVICES

2:00 p.m. Overview: *Paul Fischbeck,*

Professor, Social & Decision Sciences and Engineering & Public Policy

2:15 p.m. Evacuate or shelter in place:

A dirty bomb case study. *Matt Dombroski, Systems & Decision Sciences Section, Lawrence Livermore National Laboratory*

2:30 p.m. Risks of a 10kT terrorist bomb: *Keith Florig, Senior Research Engineer, Engineering & Public Policy*

2:45 p.m. Questions and discussion

3:00 p.m. Afternoon break

SESSION VI: MANAGING RISKS FROM BIOLOGICAL ATTACK

3:15 p.m. Lifesaving new lab technology:

Estimating the number of lives that could be saved in an anthrax attack if local laboratories had molecular diagnostic testing capabilities

3:30 p.m. The risks of a plague attack:

What happens when the public health response doesn't go as anticipated? *Both topics presented by Liz Casman, Research Associate Professor, Engineering & Public Policy*

3:40 p.m. Questions and discussion

SESSION VII: ESTIMATING TERRORISM RISK

3:55 p.m. Report on a RAND study and a Carnegie Mellon project building upon it: *Henry H. Willis, Visiting Lecturer, Heinz School of Public Policy & Management at Carnegie Mellon; Policy Researcher, RAND Pittsburgh*

4:15 p.m. Questions and discussion

WRAP-UP

4:30 p.m. Roundtable: Dialogue on the day's presentations and discussions

5:00 p.m. Closing remarks: *M. Granger Morgan, Head, Department of Engineering & Public Policy*

Registration is free for the entire conference or individual sessions. To register, email spane@andrew.cmu.edu with your name, your organization, your email address and which sessions you plan to attend. **All registrations must be received by Thurs., Feb. 23.**