Anywhere, Anytime, Any Size, Any Signal: Scalable Remote Information Sensing and Communication Systems

Workshop Presented by the MSCMC Multi-Sector Crisis Management Consortium
ACCESS Center -- January 14-15, 2002

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Outline

• Workshop Rationale
• Workshop Goals
• Workshop Logistics
• The Multi-Sector Crisis Management Consortium
• Conclusions
Workshop Rationale

• Several recent meetings have highlighted common interest across many communities in the deployment of large distributed systems for information gathering and analysis

• Recent events have raised the need to foster cooperation across these multiple sectors

• This workshop is an early step in making this cooperation flourish
Workshop Goals

• To develop relationships among technologists and users that lead to the solution of problems of common interest
  – Biologists, Technologists, Consortium-Homeland Security Communities

• To produce a proceedings/report with recommendations for future actions and research

• To publicize our findings and recommendations

• To design future workshops
Workshop Outline

• Day 1
  – Presentations by technologists
  – Presentations by users
• Use the breaks
• Ask questions
• Respect the time limits

• Day 2
  – Two groups will be created to start work on the proceedings
• Participants are VERY important
• Recommendations can be for actions as well as research
Logistics

• We will provide coffee and catering for breaks, etc.
• Some early morning food, but not a full breakfast
• Lunch and Dinner are informal
• We expect everybody to work -- speakers and participants are both very important
• We will distribute a participant list soon
  – Please sign it with area of interest
  – Leave us a business card for final list
Acknowledgements

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• Organizing Committee:
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• NSF
• University of Maine
• Kia
Multi-Sector Crisis Management Consortium

Business, government, and academia incorporating new technologies into crisis management and emergency response communities
MSCMC

• Created in September 2000
• Can get a lot of information from http://www.mscmc.org
• Chartered as a Maine non-profit organization
• Headquarters here at the ACCESS Center
MSCMC Goals

• Identify needs of the crisis response communities
• Support advanced information technology research for crisis management, emergency response communities, and related communities
• Bring multiple sectors together
• Provide neutral convening forum
• Provide a portal for user communities to the R & D communities
'Disproportionate Power' In Extremists' Hands

A New Age of Terrorism
Tokyo Nerve Gas Attack

Terrorist attacks can be very sophisticated
Natural Disasters

Index Map of Recent Earthquakes in California
USGS·UCB·Caltech·UCSD·UNR

Mon May 29 18:00:03 PDT 2000
The Crisis Responder Crisis

In the article *Combating Terrorism at Home* by Douglas J. Gillert in the *Journal of Civil Defense*, Winter 1998, the author describes the crisis responders by the phrase:

“The brave, the few, the underequipped, the undertrained.”
The Crisis Responder Crisis

Combating domestic terrorism falls on the shoulders of emergency services and other municipal agencies.

*These agencies aren't equipped or trained*
Accidents

- The *Hot Zone* describes 1989 episode in Reston, Virginia involving the *ebola virus*
- As travel increases and human density grows, the chance of running into a **bad** bug increases
Deliberate Sabotage or Accident?
Bhopal

- Union Carbide claims that this resulted from the actions of a disgruntled employee
- No one has ever been charged and the claim has never been substantiated
Deliberate Sabotage

- Edward Abbey's book has inspired some militant behavior
- Havoc can be unleashed unintentionally
- Had an incident at the University of Maine
  - Genetically engineered crops destroyed
MSCMC: TOPOFF Exercise
Virtual News Conference via the Access Grid

NSF Director, Dr. Rita Colwell, speaking to 5 remote sites and local audience
In Conclusion

• Use this workshop as an opportunity to learn as much as possible about what others are doing
• Think outside the box and focus on what we can do to be truly useful and productive
• There is a sense of urgency about our activities
I WANT YOU
For the Workshop