

What is the difference between information and meaning?

THE CONDUIT METAPHOR

WARNINGS

Clear, Calm, Collected

Communicating Effectively During Times of Threat

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One of the defining characteristics of terrorism is that it is intended to impact—directly or indirectly—the public at large. As a result, the public needs and wants information about the threat and risk posed by potential or actual attacks. Ensuring that such information is conveyed effectively and spurs appropriate protective action is essential to the successful management of crisis situations. Are guidelines for effective communication during times of threat being followed in U.S. communities?

Study #1: Bean, Mileti and Smarick

of more than 500 people in Los Angeles County who had experienced a major wildfire to assess the researchers conducted 70 interviews with public information officers in and around the New York City. Los Angeles and Washington, D.C., regions designed to assess the degree to which best risk communication practices were being followed in U.S. communities.

PESILITS Surveys revealed that 25% of residents who received a mandatory evacuation order during a major wildfire never evacuated their homes. Those who did evacuate reported that they received the evacuation order from a source they knew and trusted; they received multiple messages through a variety of channels; and the information they received was specific about what action they needed to take and when. These findings reinforce the long history of research on effective communication of warnings.

Interviews with public information officers, however, revealed that knowledge of and attention to these factors associated with successful warnings varies greatly, even in areas considered to be likely targets for mass-casualty terrorism. Few officials had any experience in composing messages for large-scale disasters that would require the public to take action. use pre-scripted messages—messages specifically crafted to prompt public action—during an emergency event. Interviews also revealed a general lack of awareness as to how diverse sectors of a population interpret uniform official messages.

Study #2: Vaughan

METHODOLOGY START sought to improve understanding of how diverse U.S. audiences respond to threat information. Researchers presented broadcast media stories from the 2001 anthrax attacks to members of minority communities and through interviews and focus groups, identified how communication needs differed among participants from various ethnic and socioeconomic groups.

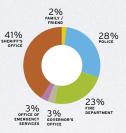
RESULTS Focus groups with representatives from minority communities reinforced the need for officials to know and adapt to their audience. Within some lower-income African-American and Hispanic communities, for instance, premature public reassurances severely damaged the short-term credibility of public officials. These audiences were more forgiving of warnings about threats that never materialized. Conversely, skepticism among those who mistrust the government was reduced when officials offered repeated and clear communications about what was known about the situation, while openly acknowledging existing distrust of the messenger

BOTTOM LINE Communities recognize that effective public communication in the midst of a crisis. such as a terrorist attack, can mitigate its negative consequences. To ensure that messages about warnings, threats and risk effectively convey information to prompt appropriate action, officials need to heed established principles of effective communication and also adapt their messages and channels of communication to the diverse populations and life circumstances in their communities.

FOR MORE INFORMATION ON THESE PROJECTS. VISIT: WWW.STADT.IIMD.FDII/DD11/DD0112 AND WWW.START.UMD.EDU/RR11/PROJ13.

RESULTS FROM LOS ANGELES COUNTY SURVEY ON COMMUNICATION DURING WILDFIRES

Deliverer of Evacuation Order







	Preperation/ Pre-Crisis	Response	Recovery/ Post-Crisis
Messages	warning messages		
Conversations	individual decision making, diffusion through face- to-face interaction		
Systems/ Networks	social networks		
Discourse	competing frameworks for the creation and evaluation of warning messages		

	Preperation/ Pre-Crisis	Response	Recovery/ Post-Crisis
Messages	data-driven information transfer, persuasive strategies		
Conversations	resource allocation decision-making, convincing evacuees		
Systems/ Networks	evacuee and patient tracking		
Discourse	logics of safety, security, and privacy		

COMMUNICATION DESIGN

"The immediate product of design is some intervention into ongoing activity (e.g., a device, a service, an interactional format) that might or might not affect the activity in the way the design expects. The design of information and communication technology is grounded in some idea about how communication works and ought to work."

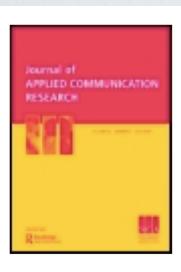
Aakhus and Jackson, 2005

"...make communication possible that was once difficult, impossible or unimagined. Communication design happens when there is an intervention into some ongoing activity through the invention of **techniques**, **devices**, **and procedures** that aim to redesign interactivity and thus shape the possibilities for communication."

COMMUNICATION DESIGN METHODOLOGY

- · "empirical examination of discourse practices,
- · critical analysis based on comparison of practices with an ideal model,
- a specification of designable features,
- · a proposed redesign,
- examination of the change in practice that follows from implementation of the design" (Jackson, 2002, p. 110).

NUCLEAR POWER SAFETY OVERSIGHT MEETINGS



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Designing Communication for the Dayto-Day Safety Oversight of Nuclear Power Plants

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STATUS MEETINGS

GET THE FACTS
GET THE RIGHT INFORMATION
TO THE RIGHT PEOPLE AT THE
RIGHT TIME

	Preperation/ Pre-Crisis	Response	Recovery/ Post-Crisis
Messages	getting information/facts correct and transmitted		
Conversations	safety oversight meetings		
Systems/ Networks	multiple, overlapping communication processes		
Discourse	tenor of safety oversight as a whole		

STATUS MEETINGS

- Safety: Are we in danger? how do we know?
- · Information management: Get the right information to the right people at the right time
- Meaning engagement practice: What does this mean for safety?
- Regulation: What should the regulatory action be?
- Learning: do we agree about what we are doing and do we all know how we are doing it?
- Value: Is it clear that our inspection work helps make the plants safer?

DESIGNABLE FEATURES

- What to communicate and how much?
- How to communicate?
 - Turn taking
 - Timing and pacing
- Who are the audiences?

SITUATED IDEALS

transmit information and make meaning

deal with ambiguity concretely

make status meetings boring and interesting

focus on the past and the present

PROPOSED REDESIGN

Awareness and Reflexivity

Storytelling

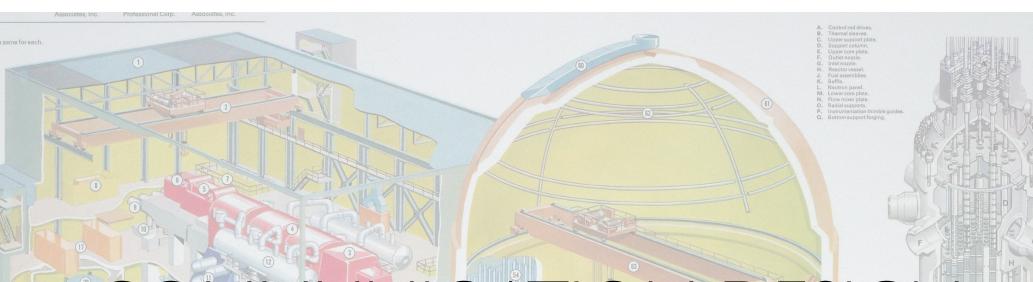
Systematic experimentation

RELATED PROJECTS

- * Sophistication and message design logics in stakeholder message creation about organizational change (Barbour, Jacocks, Wesner, 2013)
- Collaboration for compliance: Negotiation of identity tensions at a toxic waste storage site (James & Barbour, R&R)
- * Institutionalized accounts of volunteer responder preparedness (Chinn & Barbour, 2013, Barbour & Chinn, in preparation)
- * Hazards materials response knowledge networks and transactive memory systems (Barbour & Bierling; Sommer, Barbour, & Bierling)
- * App design to **educate community members** about the effects of their local adoption of low impact development technologies (Scott, White, Politte, Collard, Saathoff, Baltensperger, Bergman, Barbour, Sprintston, 2014)

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	Preperation/ Pre-Crisis	Response	Recovery/ Post-Crisis
Messages	flooding and development education messaging		
Conversations	safety oversight meetings		
Systems/ Networks	transactive memory systems, post disaster interorganizational networks		
Discourse	disaster policy rhetoric		



COMMUNICATION DESIGN FOR DISASTER RESPONSE

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Slides and reference list available at macromorphic.com

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