

# DRC DISPATCH

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## DIRECTOR'S NOTE

Dear DRC Friends and Colleagues,

We are glad to send you the latest edition of the *DRC Dispatch* and to let you know what we have been doing over the last several months. First, many thanks to all who attended the Disaster Research Center's 50th Anniversary Workshop & Celebration last May! We were thrilled to host old and new friends—alums, colleagues, and supporters from throughout DRC's history during the three day event.

We are also glad to announce the success of the first annual fundraiser of the UD Chapter of the International Association of Emergency Managers (IAEM@UD). Thanks to the generosity of the DRC community we were able to surpass our fundraising goals and support IAEM@UD's 2014–2015 initiatives in community service, public education, and professionalization activities. And finally, we've been busy with a host of research initiatives, including several new awards from a variety of funding sources. In addition, DRC faculty and students participated in over 30 workshops and conferences both in the US and internationally.



On a more serious note, like everyone we have been watching closely the growing Ebola crisis, from the humanitarian catastrophe in West Africa, through its international implications, and finally ramifications closer to us at DRC. This situation underscores again the role of social and economic vulnerability in the perpetuation of an emergency. It highlights the importance of preparedness but also that surprises can lurk in situations that seemed to be controlled but which are not fully understood. For many years, at least since the 2001 anthrax attacks and then SARS and H1N1, officials in the public health and disaster communities worldwide have worried about the possibility of various kinds of disease spreads, either through natural processes or through deliberate acts of terrorism. The Ebola experience shows us that systems are more brittle than expected.

At a minimum, we can learn from this that our work is never done; that the increasing global connectivity and ease of transportation opens up vulnerabilities as well as opportunities, and that places that in previous years would have had little contact or relevance to each other are suddenly affecting each other in startling and unexpected ways. Charles Perrow in his tour-de-force *The Next Catastrophe* warned that connections and concentration of activities would be the next source of danger. The Ebola situation should thus be seen as a signal event to alert us to the need for institutions that are forward thinking, flexible, and alert for trouble. Over these last few years, DRC has turned some of its research efforts more in a public health direction; over these next months it is likely that public health matters will warrant more attention from DRC and the wider community.

Best wishes,

Jim Kendra

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DISASTER RESEARCH CENTER

## FEATURE ARTICLE: DRC PURSUES ON-GOING RESEARCH IN COMMUNITY RESILIENCE AND RECOVERY

**Co-Principal Investigators:** James Kendra, University of Delaware, Jonathan Links, Johns Hopkins University, and Sarah Sisco, New York City Department of Health and Mental Hygiene

**Funding Institutions:** U.S. Department of Health and Human Services and the Centers for Disease Control and Prevention

Resilience has become the hot topic in disaster research, and meanwhile scholars and policy-makers have looked for ways to better understand the capacity of communities to minimize disaster and to recover afterwards. For the last several years, DRC has been involved in an on-going collaboration with the Johns Hopkins University Bloomberg School of Public Health and, most recently, with the New York City Department of Health and Mental Hygiene to develop the CoPE-WELL Model, “Composite of Post-Event Wellbeing”. By combining social science understanding of disaster, represented in a systems dynamics modeling environment, the project will try to show what conditions of a community (type of hazard, preparedness, social capital, and economic, demographic and political characteristics) predict recovery outcomes, and where systems can be strengthened to best effect. CoPE-WELL is being developed in a family of projects: one focused on initial conceptualization; another, working closely with colleagues in New York City, focused on testing the model and refining it for New York City; and most recently a project funded by CDC to harmonize CoPE-WELL and other measures of preparedness such as the National Health Security Preparedness Index. The project thus involves both pure scientific research and policy applications. The project is fully interdisciplinary, including two public administration scholars, two sociologists, public health officials, a physicist, a physician, a health bio statistician, and two civil engineers. Three graduate and thirty undergraduate students are working on the project.



DRC graduate students recently completed a series of focus groups in New York City that will provide a qualitative, contextual dimension as a check on the quantitative data being gathered from various sources.

Pictured here at a focus group session in New York City: Graduate students Nuno Martins, Hans Louis-Charles, Sarah Gregory, and Mei Johnson with Professor Ben Aguirre.

## DISASTER RESEARCH CENTER'S 50TH ANNIVERSARY



### “Taking Stock and Taking Action: Disaster Research and the Challenges Ahead”

Clayton Hall, April 30<sup>th</sup> through May 2<sup>nd</sup>

Culminating in a Celebratory BBQ at the Courtyard Marriott Saturday May 3<sup>rd</sup>

The two day workshop was attended by many of the Disaster Research Center's earliest pioneers including Russell Dynes, one of the founding Directors of DRC and Professor Emeritus of Sociology at UD, and leading disaster researchers, practitioners, and academics in the field.

Over 100 workshop participants joined DRC in scoping out research directions that build new theory, explore new methods, and that foster new synthesis and integration of ideas that can be useful in creating more adaptive risk management institutions. Twenty-eight speakers, representing six countries and a multitude of states throughout the U.S., facilitated nineteen working sessions aimed at engaging workshop participants in discussion about particular disasters or disaster themes and their implications for research and further refinement of practice. In addition, speakers presented in three plenary sessions: the history of disaster research, how to convert disaster science into effective public policy, and critical ideas generated in the workshop. As was discussed in detail in all presentations at the workshop, disaster research is increasingly interdisciplinary in nature, beginning first with a social science focus and expanding to include engineering and the physical sciences. With disaster science and emergency management continuing to evolve, the humanities seem to be emerging next within the field with the study of science, technology and society as “the next frontier” in disaster research.

**Thank you to all DRC friends and alumni  
who attended our  
50th Anniversary Workshop & Celebrations.**

Your continued support helps to ensure 50 more years of research, education, and innovation!



Professor Emeritus Dr. Russell Dynes receiving recognition as a DRC co-founder.



DRC Director Jim Kendra accepting the Governors Proclamation for DRC.



Dr. Tricia Wachtendorf with guest speakers Dr. Lori Peek and Dr. Sudha Arlikatti.

## SUPPORT THE DISASTER RESEARCH CENTER

After 50 years of continued success in research, training, and service in the disaster community, the Disaster Research Center continues to pioneer advances in disaster research. The primary goals of the Disaster Research Center are:

- to advance interdisciplinary research on preventing and managing disasters;
- to further our commitment to graduate and undergraduate research training, especially through the Disaster Science and Management Program;
- to strengthen the E. L. Quarantelli Resource Collection as the world's most complete collection on the social and behavioral science aspects of disasters;
- and to expand our portfolio of seven hundred field studies in the aftermath of disasters, catastrophes, and community crises.

Gifts from DRC alumni and supporters will provide the Disaster Research Center with the necessary resources to assure the vitality and growth of our educational and research programs in the future.

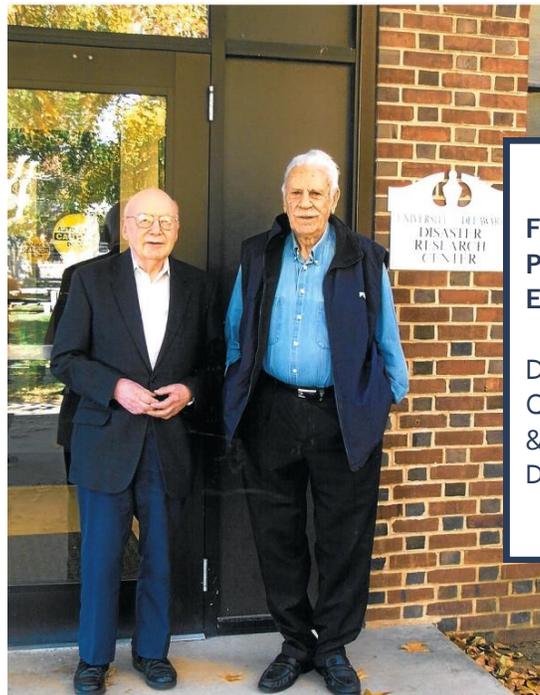
**We ask that you  
commit to support the  
Disaster Research Center  
by making a  
contribution.**

To make a gift, please go to:

[www.udel.edu/  
makeagiftdrc](http://www.udel.edu/makeagiftdrc)

For more information about the Disaster Research Center, our active studies, disaster-related educational opportunities at the | University of Delaware, and the E.L. Quarantelli Resource Collection, be sure to check our website:

[www.udel.edu/DRC](http://www.udel.edu/DRC)



**Founders &  
Professors  
Emeriti**

Dr. Enrico L.  
Quarantelli  
& Dr. Russell  
Dynes

On behalf of everyone at the Disaster Research Center, we thank you for your continued investment in our program.

To learn more about giving to the University, visit [www.udel.edu/giving](http://www.udel.edu/giving). If you have any questions about your contributions, please contact the Office of Annual Giving at [annual.giving@udel.edu](mailto:annual.giving@udel.edu) or call (866) 535-4504.

## IAEM@UD STUDENT CHAPTER

### Service Project: Hurricane Sandy Restoration

As part of their community service and engagement effort, nine members of IAEM@UD traveled to Staten Island in May for a service project. The group partnered with All Hands Volunteers to help a family repair their home that was damaged during Hurricane Sandy. The students spent the day sanding and painting newly installed drywall throughout the house, which is no easy task! The service project offered students an opportunity to help a family who experienced the destructive force of a disaster first-hand.

### 1st Annual Fundraiser... Pie-in-the-Face!

The fundraiser was a huge success.

**IAEM@UD raised a total of \$842.36, surpassing our goal of \$750.00!**

IAEM@UD would like to thank all who contributed to this fundraiser. Donations will support the student chapter’s activities in professional development, community service in disaster recovery, mitigation, and education and other chapter initiatives throughout the upcoming year.

The rules were simple. Donors gave money in the name of the volunteer participant they wanted to get a pie-in-the-face. The two volunteers with the most donations would get pied! IAEM@UD had seven brave volunteers willing to risk getting pied. The “winners” were...

**James Kendra, Director of the Disaster Research Center & Maria Aristigueta, Director of the School of Public Policy and Administration!**

As promised, the top two donation earners were awarded their pies in grand fashion at Newark Community Day, Sunday September 21st.



Dr. Kendra & Dr. Aristigueta after receiving their pies!



IAEM@UD members & faculty volunteers at Newark Community Day.

## JOIN IAEM@UD!

IAEM@UD accepts new members on a rolling basis beginning October 1st of each year with the term of membership ending September 30th the following year.

**Full Member:**  
Graduate Students at UD, \$45

**Associate Member:**  
Part-time & Under-Graduate Students, Faculty, Professional Staff at UD, \$45

### Apply TODAY!

Visit our website for information about how to apply.

STAY UP TO DATE!

[sites.udel.edu/iaemud](http://sites.udel.edu/iaemud)



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NEW GRANT! COLLABORATIVE RESEARCH:  
AN INTERDISCIPLINARY APPROACH TO MODELING MULTIPLE  
STAKEHOLDER DECISION-MAKING TO REDUCE  
REGIONAL NATURAL DISASTER RISK

**Principal Investigators:** Rachel Davidson and Joseph Trainor, University of Delaware, Linda Nozick, Cornell University, and Jamie Kruse, East Carolina University.

**Funding Institution:** National Science Foundation

Natural disasters create enormous costs for the United States. Despite many private sector and public policy efforts over decades, the current system of managing natural disaster risk is not working well for the government, the insurance industry, or homeowners. Previous research has resulted in knowledge about how individuals and organizations make risk-related decisions, the strategic behavior of individual insurers and the insurance market as a whole, as well as natural disaster risk itself and ways to physically reduce it. Nevertheless, efforts to understand how the choices of the different participating groups or stakeholders interact as a “system” have been limited. This project will result in a new framework of interacting mathematical models that can be used to better understand, design, and evaluate government natural disaster risk management policies, such as providing funds to help homeowners strengthen their homes, requiring homeowners to buy natural disaster insurance, or offering to buy high-risk homes. By considering the individual, sometimes competing stakeholder points-of-view up front, as an integral part of the analysis, the new framework will make it easier to identify those win-win system-wide solutions that are most likely to be put into action and to be effective. The new framework will include five interacting mathematical models—models of (1) government decisions about what regulations to introduce and/or incentives to offer, (2) insurer decisions about what to charge for insurance policies and what reinsurance to buy, (3) competition among insurers, (4) individual homeowner decisions about whether to buy insurance and/or strengthen their homes, and (5) regional natural disaster losses.

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NEW GRANT! INVESTIGATING THE BENEFITS AND DRAWBACKS OF  
REALIGNING THE NATIONAL GUARD UNDER THE DEPARTMENT OF  
HOMELAND SECURITY

**Principal Investigators:** Ryan Burke and Sue McNeil, University of Delaware

**Funding Institution:** Department of Defense, U.S. Army War College Strategic Studies Institute—External Research Associates Program

The 2014 U.S. Army Priorities for Strategic Analysis asked the question: “Given the growing importance of homeland defense, what would be the benefits and drawbacks of realigning the National Guard under the Department of Homeland Security to enhance domestic security and disaster response, while retaining utility for overseas missions in support of the Department of Defense?” (pg. 2). As we realign our defense and security priorities back to the homeland, we will see the National Guard again play a more significant role in domestic missions. The current system of domestic military employment is complex and often inefficient during large-scale incidents. This is often due to the inherent tensions between individual states and the federal government. With the potential to serve in both a state and federal capacity, the National Guard is often the focus of this tension. In order to facilitate the best and most appropriate future use of the Guard to support domestic security and disaster response requirements, we need better coordination mechanisms and fewer bureaucratic or political impediments. In consideration of these issues, realigning the National Guard under the Department of Homeland Security is a worthwhile topic for further analysis. The objective of this project, therefore, is to provide a systematic analysis of the benefits and drawbacks of realigning the National Guard under the Department of Homeland Security (DHS). The resulting analysis will provide a series of strategic and policy-specific recommendations advocating for or opposing realignment.

## E. L. QUARANTELLI RESOURCE COLLECTION

The E.L. Quarantelli Resource Collection is excited to announce three NEW projects, all of which will bring essential resources to DRC and to the larger disaster community.

**Information Chain Support for Disaster Mitigation, Preparedness, Response, and Recovery:** Partnering with faculty and students in UD's Computer Engineering program, this 3 year National Science Foundation grant will utilize the library's DISCAT catalog database to develop a new search tool that enables users accessing large databases to more effectively and efficiently search, yielding more useful results.

**Off-site DRC Archives:** The E.L.Q. Collection is expanding its archival space! The new off-site location allows DRC to grow the Collection and process a higher volume of incoming materials. This climate-controlled, secure space will enable DRC to further enhance its world-renowned research collection.

### Stewardship of EMForum.org's Archive

From 1997 to 2014, the Emergency Information Infrastructure Project (EIIP) hosted a continuing series of real-time, interactive presentations on a wide variety of emergency management-related topics, first via text chat and subsequently by the EMForum.org Webinar for the purpose of providing the opportunity for continuing education and professional exchange.

This effort was originally the result of a partnership between the Congressional Fire Service Institute (CFSI), the Federal Emergency Management Agency (FEMA), the National Emergency Management Association (NEMA), the International Association of Emergency Managers (IAEM), the National Volunteer Fire Council (NVFC), and State and Local Emergency Management Data Users Group (SALEMDUG). During October 1999, an independent, non-profit educational corporation was established to carry out the mission of promoting the safety of the general public by enhancing the effectiveness of individuals engaged in the emergency/disaster management enterprise.

Over the course of its existence, leaders in all phases of emergency management – preparedness, response, recovery, and mitigation – volunteered their time to share their expertise and experience with their colleagues and respond to their questions. This exchange was captured, first through text transcripts, and later, the addition of audio and video recordings, amassing a large archive that continues to remain relevant to the issues of the day.

Recently DRC partnered with leaders of EIIP to provide long term access to the EMForum.org Webinar archives through the link provided or on the E. L. Quarantelli Resource Collection web page of the DRC website ([www.udel.edu/DRC](http://www.udel.edu/DRC)).

#### [EMForum.org Archive](#)

“These are truly exciting times in the E.L. Quarantelli Resource Collection. These efforts will help move DRC forward as a whole, and would make the Collection's namesake and founder proud.”

Pat Young, Resource Collection Coordinator

## STUDENT AWARDS AND ACHIEVEMENTS



Dr. Rochelle Brittingham graduated with her PhD in Public Policy after successfully defending her dissertation: "Framing Matters: Situating the Experiences and Perceptions of Disaster Sheltering and Evacuation for People with Disabilities."



Dr. Lauren Clay graduated with her PhD in Disaster Science and Management after successfully defending her dissertation: "The Influence of Community Social Institutions on Individual Disaster Recovery: A Multi-level Analysis."



Dr. Ziqiang Han graduated with his PhD in Disaster Science and Management after successfully defending his dissertation: "From Disaster to Resilience: Long-term Livelihood Recovery in Rural China after the 2008 Wenchuan Earthquake."



Dr. James Goetschius graduated with his PhD in Disaster Science and Management after successfully defending his dissertation: "Improving Hospital Survivability: Tools to Inform Hospital Planning and Design."



MS Disaster Science and Management students graduated after successfully defending their theses. Chunjing Liu (left), "Measuring Social Vulnerability of Chinese Coastal Counties to Natural Hazards;" Brian Gildemeyer (center), "Is Metropolitan Pollution Inducing Tornadoes?" and Anne Goodman (right), "Applying the Individual Understanding and Response Framework to Sea-Level Rise South of Delaware's Indian River Inlet."

DISA student Zephi Francis successfully defended his MS thesis proposal "Understanding Tornado Education in Public Schools."

DISA MS student Daryl Yoder-Bontrager successfully defended his thesis "Nongovernmental Organizations in Disaster and Coordination: A Complex Adaptive Systems View." He is now enrolled in the DISA doctoral program.

Sociology and Criminal Justice PhD students Samantha Penta and Maggie Nelan each received a \$500 Professional Development Award from UD's Office of Graduate and Professional Education to attend and present papers at the ISA meeting in Yokohama, Japan.

DISA PhD student Ryan Burke was a finalist in the Center for Homeland Defense and Security (CHDS) essay contest with his essay entitled "Out with the Old, In with the New: Embracing Dual Status Commanders in the Future of Homeland Defense and Security." In addition, Ryan was awarded a competitive Dissertation Fellowship from the University of Delaware.

DISA PhD student Hans Louis-Charles was named Chairman of the Student Advisory Council for the William Averette Anderson Fund for Hazard and Disaster Mitigation Education and Research.

DISA PhD student Ray Chang was invited to open a column in a Taiwanese online newspaper (udn.com). Ray shares his disaster response experience and opinions on disaster management related issues in Taiwan.

## WELCOME TO OUR NEW POST-DOCTORAL RESEARCHER



### Dr. Sarah DeYoung

Dr. Sarah DeYoung joined the Center as a post-doctoral researcher this past July. Sarah received her PhD in Psychology from North Carolina State University, and her dissertation focused on “Psychosocial Predictors for Hazard Readiness.” She is working closely with DRC faculty Tricia Wachtendorf and Rachel Davidson on a \$3 million Science, Engineering and Education for Sustainability grant examining “Dynamic Integration of Natural, Human, and Infrastructure Systems for Hurricane Evacuation and Sheltering.” Collaborating institutions include University of North Carolina-Chapel Hill, Cornell University, University of Oklahoma and Stony Brook University. Welcome, Sarah!

## WHO’S VISITING THE DRC NOW?

### Tiezhong Liu, Beijing Institute of Technology, China

Professor Liu comes to the Disaster Research Center from the School of Management and Economics, Beijing Institute of Technology. He will be at the University of Delaware with the Center until August 2015. His area of study is disaster risk assessment and crisis management. Welcome to DRC Professor Liu!

## NEW DISA STUDENTS!

Welcome to the new graduate students in the Disaster Science and Management program!



Back Row: George (Bud) May, Justin Burns, Mahmoud Alwidyan, Muhammad Toheed  
Front Row: Rae Cooper, Cynthia Rivas, Samantha Montano, Valerie Marlowe, Qiuxi Li

## GUEST SPEAKERS



**Ali Ardalan**

DRC hosted a lecture by Professor Ali Ardalan on “Iran’s National Public Health and Disaster Mitigation.” Professor Ardalan is a Visiting Scientist at the Department of Global Health and Population at the Harvard School of Public Health and a Fellow at Harvard Humanitarian Initiative where he is assisting in establishing two programs related to public health and disasters: “Middle East and North Africa Crisis Management” and “Public Health Leadership for Disaster Risk Reduction.”

**Dewald van Niekerk**

As participants started to arrive for the 50th Anniversary workshop, the DRC was lucky to have Professor Dewald van Niekerk, Director of the African Center for Disaster Studies, present to not one but two classes at the University of Delaware. His remarks focused on social vulnerability in South Africa. Professor Niekerk was also an invited guest speaker at DRC’s 50th Anniversary.



## VISITORS TO THE DRC



**Roy Popkin**

Former American Red Cross disaster relief director Roy Popkin (seated) recently visited DRC to view the Popkin Red Cross Collection—an extensive gift of publications and documents given to the Center several years ago. He is pictured here with DRC Director James Kendra, Director Emeritus Russ Dynes, and Resource Collection Coordinator Pat Young.

**Jorgen Sparf and Erna Danielsson**

Professor Jorgen Sparf and Professor Erna Danielsson (pictured here with DRC faculty James Kendra and Joe Trainor) of the Risk and Crisis Center at Mid Sweden University stayed on for productive collaboration following the 50th Anniversary Workshop. They also presented a congratulations gift to DRC and a donation to the William Averette Anderson Fund in recognition of DRC’s work over the decades.



## DRC FACULTY & STUDENT PRESENTATIONS

### **American Society for Public Administration Annual Conference, Washington, D.C. (March 15, 2014)**

Burke, Ryan. "Measuring NORTHCOM: Performance Measurement in Military Civil Support and Homeland Defense"

### **GNS Science, Wellington, New Zealand. (April, 2014)**

Davidson, Rachel. "Modeling Natural Disaster Risk Management: Integrating the roles of insurance and retrofit and multiple stakeholder perspectives."

### **4th Annual Graduate Student Forum, Newark, DE. (April 24, 2014)**

Clay, Lauren and Alex Greer. "Successful Failure: Responding to Disaster Mental Health Needs Following Disaster."

Goetschius, Jim. "Improving Hospital Survivability: Tools to Inform Hospital Planning and Design."

Goodman, Anne. "Applying the Individual Understanding and Response Framework to Sea-Level Rise in Bethany Beach Area of Delaware."

Liu, Chunjing. "Disaster Risk Reduction in China."

Liu, Chunjing. "Resilience Research and Practice in Disaster Management: Lessons from Literature Review."

Louis-Charles, Hans. "Natural Disasters, Migration and Xenophobia."

Martins, Nuno. "Disaster Preparedness as a Socially Structured Process: Social Context, Personal Motivation, and Environmental Familiarity."

### **Planning for Disaster Resilience Symposium, College Station, TX. (April, 2014)**

Han, Ziqiang. "The Role of Social Capital in Housing Recovery: Lessons from the 2008 Wenchuan Earthquake in China."

### **Disaster Preparedness and Resiliency Symposium, University of Texas Pan American, Edinburg, TX. (April, 2014)**

Wachtendorf, Tricia. "Cross-Border Resilience: Opportunities and Challenges."

### **Readiness and Resilience Academy Summit III, American Red Cross of Southeastern Pennsylvania. (March/April, 2014)**

Wachtendorf, Tricia. "Organizations, Communication, and Disasters."

### **Asia-Pacific Senior National Security Officers Seminar, Singapore Prime Minister's Office and S. Rajaratnam School of International Relations, Singapore. (April, 2014)**

Stern, Eric. "Case Based Resilience Development Strategies."

### **Delmarva GIS 2014: We are connected, Bridgeville, DE. (May 8, 2014)**

Louis-Charles, Hans and Tracy L. DeLiberty. Poster. "Building Homeless and Transitional Shelters for Vulnerable Populations: A Spatial Analysis Methodology."

### **2014 Disaster Education Conference, at the Institute of Disaster Management and Reconstruction, Sichuan University, Chengdu, China. (May, 2014)**

Han, Ziqiang, "Disaster Education and Disaster Preparedness in the United States."



Ziqiang Han, Disaster Edu. Conference, Chengdu, China

## DRC FACULTY & STUDENT PRESENTATIONS

### Michigan Asset Management Conference, Bay City, MI. (May, 2014)

McNeil, Sue. Keynote. "An Outsiders View: Two Decades of Proactive Asset Management in Michigan."

### DRC 50th Anniversary Workshop, Newark, DE. (May, 2014)

Burke Ryan. Poster. "Two Teams - One Fight: Improving Civil Military Coordination in Disaster Response."

Cario, Anthony. Poster. "Next Generation Warning Systems: Integrated warnings over mobile devices for tornados and flash floods in DFW."

Chang, Ray. Poster. "An Analysis of Incident Command System."

Clay, Lauren, Alex Greer and James Kendra. Poster. "Successful Failure: Responding to Disaster Mental Health Needs Following Disaster."

Greer, Alex. "Up Close and In Context: Disaster Case Studies: Deepwater Horizon."

Kendra, James, Joanne Nigg, Ben Aguirre, Joseph Trainor, Hans Louis-Charles, Nuno Martins, and Sarah Gregory. Poster. "Operationalizing the CoPE-WELL Model for the NYC Hurricane Sandy Study."

Yoder-Bontrager, Daryl. Poster. "Critical Issues in Disaster Science and Management Bridging the Divide between Disaster Scientists and Emergency Managers."

Wachtendorf, Tricia. Panelist. "History of Disaster Research."

### Emergency Management Theory Workshop – 16th Emergency Management Higher Education Symposium Education at the Emergency Management Institute, Emmitsburg, MD. (June 2, 2014)

Burke, Ryan. "Critical Vulnerability: Neglecting Defense Support of Civil Authorities in Homeland Security and Defense Education."

Chang, Ray. "Understanding the Natural of Incident Command System."

Greer, Alex. "Should I Stay or Should I Go Now? A Review of Household Decision Making."

Han, Ziqiang. Poster. "Adoption of the Sustainable Livelihoods Approach (SLA) in disaster research: long-term livelihood recovery after the 2008 Wenchuan earthquake in China."

Subbio, Tony and Joseph E. Trainor. "Issues in Disaster Science and Management: the Results."

### Swedish Civil Contingencies Agency Legal Advisers Network Seminar, Stockholm, Sweden (FHS). (June, 2014)

Stern, Eric. "Advice in Crisis: Leaders and Lawyers in Crisis Situations."

### OECD/Swiss Federal Chancellory, Geneva, Switzerland. (June, 2014)

Stern, Eric. "Strategic Crisis Management Exercise."

### Health and Humanitarian Logistics Conference, Mexico City, Mexico. (June, 2014)

Sanchez Gil, Juan Camilo. Poster. "Food Aid Distribution during Disaster Response and Short-term Recovery: Enhancing performance of heterogeneous humanitarian structures."



Juan Camilo Sanchez Gil,  
Health and Humanitarian  
Logistics Conference, MX

## DRC FACULTY & STUDENT PRESENTATIONS

### Second Transportation and Development Institute Congress, ASCE, Orlando, FL. (June, 2014)

McNeil, Sue, Farzana Atique and Ryan Burke. "Using the Transportation Performance Index to Understand the Impact of Regional Plans."

### 39th Annual Natural Hazards Research and Applications Workshop, Broomfield, CO. (June 5-6, 2014)

Burke, Ryan. Poster. "Maturing Defense Support of Civil Authorities: Superstorm Sandy and the Dual Status Commander."

Chang, Ray and Joseph E. Trainor. "An Analysis of Incident Command System."

Greer, Alex, Sue McNeil, Joseph Trainor, and Israt Jahan. Poster. "Understanding the Relationships between Household Decisions and Infrastructure Investment in Disaster Recovery: Cases from Superstorm Sandy."

Gruber, Caitlin and Joseph E. Trainor. "Media and the Communication of Tornado Risk."

Jahan, Israt. Poster. "Earthquake Preparedness in Old Dhaka, Bangladesh."

Louis-Charles, Hans. Poster. "Predicting Public Support towards Environmental Migrants: Natural Disasters and Xenophobia."

Martins, Nuno. Poster. "Measuring Social Vulnerability to Natural Disasters with Multicriteria Analysis: the case study of Funchal Municipality."

### International Research Committee on Disasters Researchers Meeting, Broomfield, CO. (June 26, 2014)

Greer, Alex, Sue McNeil, Joseph Trainor, and Israt Jahan. "Understanding the Relationships between Household Decisions and Infrastructure Investment in Disaster Recovery: Cases from Superstorm Sandy."

### Professional Development Presentation Series – National Science and Technology Center for Disaster Reduction (NCDR), Taiwan. (July, 2014)

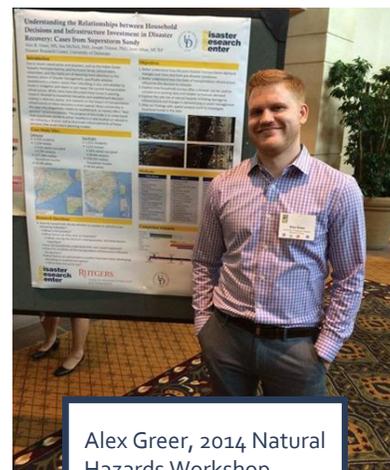
Chang, Ray. "A Social Inquiry of Disaster Management: Policy, Society, and Future Developments."

### XVIII International Sociological Association (ISA) World Congress of Sociology, Yokohama, Japan. (July, 19, 2014)

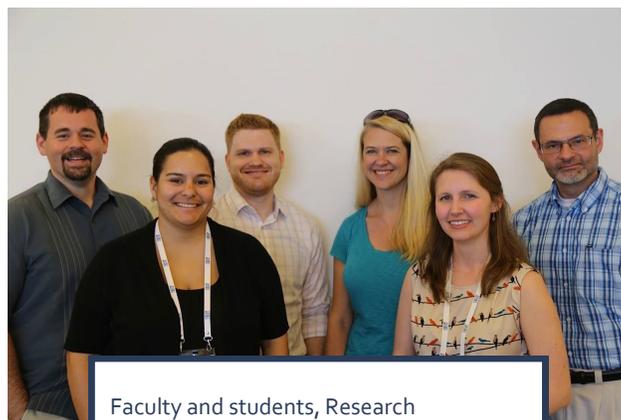
Clay, Lauren, Alex Greer and James Kendra. "Then and Now: A New Look at Methods and Findings from the 1974 Xenia, Ohio (US) Tornadoes."

Penta, Samantha, Mary M. Nelan, and Tricia Wachtendorf. "If You Have a Giving Heart!: The Framing of Post-Disaster Need and Donations."

Trainor, Joseph E., Danielle Nagele, Brittany Scott, and Brenda Phillips. "False Alarm Understanding and Perception."



Alex Greer, 2014 Natural Hazards Workshop, Boulder, Colorado



Faculty and students, Research Committee on Disasters, Yokohama, JP

## DRC FACULTY & STUDENT PRESENTATIONS

### **S. Korean Foreign Ministry, South Korea. (July, 2014)**

Stern, Eric. "Crisis Management in Theory and Practice."

### **S. Korean Ministry of Public Administration & Security, National Disaster Management Institute, S. Korea. (July, 2014)**

Stern, Eric. "The Politics of Crisis Management."

### **American Sociological Association Annual Meeting, San Francisco, CA. (August, 2014)**

Penta, Samantha, Mary M. Nelan, and Tricia Wachtendorf. "Disaster Relief as Social Action: A Weberian Look at Post-Disaster Donation Behavior."

### **US DHS Maritime Operational Threat Response Wargame, Carlisle Pennsylvania (US Army War College). (August, 2014)**

Stern, Eric. Keynote Speaker. "The Future of Interagency Crisis Coordination."

### **Designing Crisis Management Training and Exercises for Strategic Leaders Workshop, Swedish Embassy, D.C. (August, 2014)**

Stern, Eric. "Designing CM Training and Exercises."

### **Batten Leadership Retreat, Batten School of Leadership and Public Policy, University of Virginia. (August, 2014)**

Stern, Eric. Crisis Simulation. "Crisis Navigation" Lecture and "Operation Turboprop."

### **OCHA's 2014 World Humanitarian Day Commemoration, Bogotá, Columbia.**

(August, 2014) Sanchez Gil, Juan Camilo. "Distribution of food aid during disaster response and recovery: Improving the performance of heterogeneous humanitarian logistics structures."

### **International Workshop on Protective Actions to Take During Earthquakes Istanbul, Turkey (August 30, 2014)**

Wachtendorf, Tricia and Sam Penta. "Proective Action in Immediate Fuse Events: A Consideration of the Literature."

### **Opening Ceremony of the Disaster Management Graduate Program, Central Police University, Taiwan. (August, 2014)**

Chang, Ray. Keynote Speaker, "Lessons Learned from Disasters."



### **Swedish-U.S. Bilateral Homeland Security Science and Technology Meeting, Swedish Civil Contingencies Agency, Stockholm, Sweden. (September, 2014)**

Stern, Eric. Briefing. "Designing Crisis Management Training and Exercises."

### **Center for Disaster Research and Education Virtual Seminar Series, Millersville, PA. (September 19, 2014)**

Trainor, Joseph E. and Tony Subbio. "Issues in Disaster Science and Management: the Results."

### **3<sup>rd</sup> International Conference on Urban Disaster Reduction, Earthquake Engineering Research Institute, Boulder, CO. (September, 2014)**

DeYoung, Sarah. "Disaster Preparedness: Psychosocial Predictors for Hazard Readiness."

Gregory, Sarah, J. M. Kendra, S. Sisco, J. Links. "Disaster Recovery after Hurricane Sandy: CoPE-WELL Study in New York City."

Penta, Samantha. "Is There Anybody Out There?: Delivering Aid in an Urban Environment Post-Sandy."

Wachtendorf, Tricia and Yuki Namiki. "Layers of Disaster Recovery: Interesting Art, Photography, and Social Science Research to Explore Recovery in Fukushima, Japan."

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## DRC FACULTY & STUDENT PRESENTATIONS

### **American Association for State and Local History, St. Paul, Minnesota. (September 20, 2014)**

Young, Pat. "Working Together for Better Preparedness: Developing Cooperative Disaster Networks."

### **Homeland Defense and Security Education Summit, Colorado Springs, CO. (Oct. 9, 2014)**

Burke, Ryan. "Defense Support of Civil Authorities: A Neglected Competency in Homeland Defense and Security Education"

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## DRC FACULTY & STUDENT PUBLICATIONS

Aguirre, Ben, Eric Best (2014). "How Not to Learn: Resilience in the Study of Disaster," *Learning and Calamities – Practice, Interpretations, and Patterns*. (Eds. Heike Egner, Marén Schorch and Martin Voss). Routledge.

Brink, Susan and Rachel Davidson. (May, 2014). "Framework for Comprehensive Assessment of a City's Natural Disaster Risk," *Earthquake Spectra In-Press*. EERI.

Burke, Ryan. (May, 2014). "Same Objectives, Different Perspectives: Assessing the Civil-Military Culture Gap in Humanitarian Assistance/Disaster Response," *Peace and Stability Operations Journal*, 4(3):16-24.

Burke, Ryan and McNeil, Sue. (2014). "Towards a Unified Military Response: Hurricane Sandy and the Dual Status Commander," Strategic Studies Institute, U.S. Army War College, Carlisle Barracks, PA. In press.

Clay, Lauren, Jim Goetschius, Mia Papas and James Kendra. (September, 2014). "Influence of Mental Health on Disaster Preparedness: Findings from the Behavioral Risk Factor Surveillance System, 2007-2009." *Journal of Homeland Security and Emergency Management*.

Peng, J., Kesete, Y., Gao, Y., Shan, X., Davidson, R., Nozick, L., and Kruse, J. (July, 2014.). "Math modeling to support regional natural disaster risk management." *Peer-Reviewed Conference Proceeding: 10th National Conference in Earthquake Engineering*, EERI.

Dehghani, Mohammad Saied; Gerardo Flintsch; and Sue McNeil. (Sept., 2014). "Impact of road condition and disruption uncertainties on network vulnerability," *Journal of Infrastructure Systems*, 20(3).

McNeil, Sue, Farzana Atique, Ryan Burke, and Susanne Trimbath. (June, 2014). "Using the Transportation Performance Index to Understand the Impact of Regional Plans," *Transportation and Development Institute Congress*, pp. 641-648.

Wachtendorf, Tricia, Samantha Penta, and Mary Nelan (2014). "When Push Comes to Shove: The Framing of Need in Disaster Relief Efforts," *Learning from Calamities – Practice, Interpretations, and Patterns*. (Eds. Heike Egner, Marén Schorch and Martin Voss). Routledge.

*Your input is always welcome! If you have any information or updates that you would like posted in the next issue, please feel free to contact DRC or me personally.*

*Best Regards,*

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