



22nd Annual

Emergency Management Higher Education Symposium

Imagination, Improvisation, and Innovation in
Emergency Management Education

June 1 – 4, 2020



FEMA

#FEMAHiEd2020

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The College List

Are you on the **COLLEGE LIST?**

This is an invaluable and comprehensive online resource that showcases programs at all levels of study in the emergency management higher education community as well as the broader homeland security and related fields of study.

Find the complete College List:

training.fema.gov/hiedu/collegelist/

MORE THAN 600 PROGRAMS!

Includes Programs in:

- Emergency Management
- Homeland Security
- Public Health, Medical, and Related Programs
- International Disaster Relief/Humanitarian Assistance
- Emergency and Disaster Management in Other Countries
- Executive Education Programs
- Related Programs

If you would like to add your program(s), email:

fema-emi-collegelist@fema.dhs.gov

Program Manager's Welcome

Welcome to the 22nd Annual FEMA Emergency Management Higher Education Virtual Symposium!

The theme this year is, **“Imagination, Improvisation, and Innovation in Emergency Management Education.”** This theme was selected before the extensive impact of COVID-19 on our world and has now put our imagination, improvisation, and innovation skills to the test as we plan for our first-ever full Symposium in the virtual space. We have been forced to adapt, respond, and care for each other in ways we had only previously imagined. While many of you have included pandemic threats in your academic programs, research, exercises, and planning, there were still elements we did not imagine and as they surfaced, we saw communities improvise to meet the needs. As we move forward, we need take an honest look and learn from our experiences. We must highlight how the academic community contributes to advancing the emergency management profession.

As we strengthen the connection and trust between the emergency management educators, researchers, and practitioners, we will develop and sustain an effective, resilient emergency management system. We are thrilled to have a good blend of academics and practitioners presenting in our plenary sessions. In the afternoon, you will be presented with some of the best academic submissions representing work in the scholarship of teaching and learning (SoTL), academic research, and program policy and administration.

The ‘stay at home’ and quarantine orders have affected our entire lives. We are learning technology, managing our family’s needs, addressing new challenges and emotional realities, and still ensuring that learning is occurring. This virtual Symposium provides us an opportunity to learn and connect with each other in a different way. I ask you to approach this experience with compassion for yourself and others. All sessions will be recorded, so if you feel yourself being pulled to take care of other needs, please do and then come back when you can. I would love for you to highlight your participation on social media and encourage the use of our hashtag #FEMAHiEd2020.

Thank you for making time to participate this year. Your contributions to the academic discipline of emergency management are urgently needed as we navigate the impact of disasters on our communities. I hope you will experience a dynamic exchange of ideas and learning as you participate.

With Kindest Regards,

Wendy Walsh

Thank You to Our Planning Team

The Information Sharing and Symposium Planning Special Interest Group (SIG) has been planning this event for an entire year! A heartfelt thank you to each participant that has actively contributed to the planning and success of the 22nd Annual FEMA Higher Education Symposium!

- Joe Arsenault
- Terry Cooper
- Joe Hawkins
- Bill Schmahl
- Pamela Bingham
- Damon Coppola
- Steve Jensen
- Alison Shuler
- Paula Buchanan
- Goulida Downer
- Bernard Jones
- Sandy Smith
- Stephen Carter
- Kathy Francis
- Claire Knox
- Jamie Stacy
- Ray Chang
- Caroline Hackerott
- Diego Otegui
- Sally Ziolkowski

With Sincere Gratitude

A huge thank you to Laurie Marshall, Graphic Facilitator and Singing Tree Designer, for capturing this year's community dialogue and to the IAEM technical support, for their time and commitment to providing valuable resources to our community. Also, a huge thank you to the Center of Homeland Defense and Security at the Naval Postgraduate School for hosting this year's Symposium on their Zoom platform.



Laurie Marshall

Graphic Recorder, Creative Artist, Educator, Author, Singing Tree Designer

Her books include *Beating the Odds Now*, *The Flood of Kindness – Inspired by Hurricane Katrina* and *The Singing Trees: A Growing Forest*. She is the founder of Unity Through Creativity Foundation, UnityThroughCreativity.org, a non-profit whose mission is to unify diverse groups through creativity. She has also designed a collaborative mural called a *Singing Tree*, showcased on SingingTreeProject.org, which helps groups make a shared vision of success – a key element to building trust. More than 20,000 people from 52 countries have co-created 84 murals. FEMA's Symposium has been creating a *Singing Tree* since 2017.



Nicolas LaLone

Assistant Professor, University of Nebraska at Omaha

Working in the Department of Information Systems and Quantitative Analysis in the College of Information Science and Technology, his research focuses on how humans and computers can get to know each other better, especially in the context of crisis and disaster. In his most recent work, he traced the history of topographical techniques in France to the start of enthusiast computing in wargaming clubs. This work is an essential part of understanding how computation and humanity have been converging to foster technology design to withstand the growing threat of climate change, socio-economic stress, and access.



Pascal Schuback, CEM

Executive Director of the Cascadia Region Earthquake Workgroup

He is also a co-director of the Humanitarian ToolBox and has worked in the emergency management field for more than 18 years in public, private, and academic environments. He has responded to many local, national, and international incidents. His involvement in virtual responses including earthquakes, hurricanes, typhoons, and many large-scale forest fires continues to increase. He focuses on the adoption of technology and its integration within the emergency management field, from testing, developing, implementation, and assessing. He also volunteers in many areas including Virtual Operations Support Teams and CrisisCommons.



Dale Viola, Jr.

Federal Grants and Emergency Management Specialist - Stuart Consulting Group, Inc.

Serving in emergency management at the local, Federal and private sector levels since 2010, he has focused on integration and deployment of new technologies in damage assessment data analysis and disaster cost recovery. His community and industry engagement is focused on data-driven applications for responsible cost recovery policy reform as well as advocacy for the transparent use of remote sensing technologies in emergency management. An enthusiastic proponent of virtual and mixed-reality in response and recovery operations, he has collaborated with technology partners on applications to support crisis decision making.

Craig Coon and Eric Johnsen

Center for Homeland Defense and Security, Naval Postgraduate School

Craig and Eric provide excellent technical support and advice for Center for Homeland Defense and Security students, staff, faculty, and sponsors. Craig has worked for CHDS for 17 years and has assisted every master's cohort with their technical needs. He has also provided countless hours of patient assistance to our personnel. Eric has worked with CHDS for 3 years and is known for his ability to troubleshoot new technologies and webinars. Their service to the CHDS mission is essential to the Center's success.



CENTER FOR HOMELAND
DEFENSE AND SECURITY
NAVAL POSTGRADUATE SCHOOL

Our Mission

The Higher Education Program’s mission is to engage academia, emergency management professional organizations, and practitioners to work together to foster a culture of continuous learning and innovation through education and research to meet the challenges that confront the Nation. This is accomplished through support of research inquiries, special interest groups, focus groups, webinars, regional engagements, and the annual Symposium. Program activities embody the FEMA values of compassion, fairness, integrity, and respect.

The Program has made significant contributions toward achieving the National Preparedness Goal and realizing the FEMA Strategic Plan. Program activities are directly tied to FEMA doctrine, goals, and objectives and are aligned to ensure the support of quality teaching, curricula, and practice. We help build a culture of preparedness through education and research. We ready the Nation for catastrophic disasters by connecting academic resources and practice to the emergency management profession. The Higher Education Program is part of the National Training and Education Division (NTED) within the National Training Preparedness Directorate and works collaboratively with other programs and divisions within FEMA to provide products and services that partners and stakeholders can implement to achieve a true culture of preparedness across the Nation.



HIGHER EDUCATION PROGRAM

National Training and Education Division
 National Preparedness Directorate
 16825 S Seton Avenue
 NATIONAL EMERGENCY TRAINING CENTER
 EMMITSBURG, MD
training.fema.gov/hiedu/

Contact Us

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EM Higher Education Job Board

The Information Exchange and Symposium Planning SIG is proud to announce the launch of the **EM Higher Education Job Board** in  **slack**

The goal of this workspace is to share job openings, workplace challenges, member highlights, scholarship opportunities, and much more! All job postings are member-submitted, so if you have a question about a position or how to apply, please contact the host organization directly. **EM Higher Education Job Board**, emhighereduc-9f42425.slack.com, is not responsible for future employment, communication, or deadlines. Posting and searching are free!

Connect with us today:

join.slack.com/t/emhighereduc-9f42425/shared_invite/zt-ed0xj30l-yl_pCPe2l493rEGqKFyw9w

**The Slack application is not authorized for download on US Department of Homeland Security and FEMA devices. Please check with your agency or organization before downloading any applications to work-provided devices.

Monday Pre-Symposium Workshops

Time	Topic
9:00–12:00 PM EST	DHS and FEMA Connections: Information Exchange for Curricula and Practice Interagency Recovery Coordination Division, FEMA Technical Assistance, Federal Insurance and Mitigation Administration, DHS Office of University Programs
1:00–5:00 PM EST	What to Teach in Emergency Management: Thoughts for New Instructors in the Discipline Dr. David McEntire
1:00–5:00 PM EST	Survey of Geographic Information Systems for Disaster Management Research, Teaching and Service** Kevin Mickey, Unai Miguel Andres; Marianne Cardwell, The Polis Center at Indiana University Purdue University Indianapolis

**This workshop will be hosted on a different Zoom platform.
The capacity of this workshop is 100 participants.



Monday Workshops

1) **DHS and FEMA Connections: Information Exchange for Curricula and Practice**

Description: Disaster recovery is complex, challenging, and difficult to describe afterwards. Participants should come ready to dive-in to FEMA’s methodology for developing recovery case studies. The FEMA Interagency Recovery Coordination team hopes to build a partnership between practitioners and academicians to improve future case study development, as well as present our current set of learning tools that can help bring the realities of disaster recovery to life in your classroom.

Presenters: Interagency Recovery Coordination Division, FEMA

Laura O’Connell-Calton, Program Analyst, Guidance Development Office, Internal Coordination Division

Mary Anne Lyle, Chief, Guidance Development Office

Kimberly Torbert, Deputy Branch Chief, Guidance Development Office

Dianne Walbrecker, Training Specialist, Course Manager, Emergency Management Institute

Description: This panel presentation will introduce key updates to FEMA’s Resilience Analysis and Planning Tool (RAPT), a free-to-use GIS web map that allows users to visualize and prioritize resilience, response, and recovery strategies. RAPT combines data layers of census tract community resilience indicators; infrastructure locations; and hazards, including real-time weather forecasts, historic disasters, and projected hazard risk. Participants will get hands-on practice in developing a community profile and strategies to support engagement with local emergency managers. RAPT is publicly available at bit.ly/ResilienceAnalysisandPlanningTool.

Presenters: Technical Assistance Branch, FEMA

Karen Marsh, Senior Policy Advisor

Benjamin Rance, Management and Program Analyst

Carol Freeman, Contract Support, Senior Preparedness Analyst, Argonne National Laboratory

Description: This panel will discuss the National Mitigation Investment Strategy. The Investment Strategy is a whole of nation approach to advancing investment in the reduction of disaster losses and suffering. The Investment Strategy will achieve this through increased communication and education, increased coordination of policies and funding to address investment priorities, and enlarging the mitigation community of practice.

Presenters: Federal Insurance and Mitigation Administration, Risk Management Directorate, FEMA

Kathleen Boyer, Emergency Management Specialist, Data and Communication Branch

Description: This presentation will provide you an overview of the DHS Science and Technology Directorate, highlighting the Office of University Programs (OUP). OUP enables DHS components and their partners to bring innovation to operations by tapping the expertise of the Nation’s colleges and universities. OUP manages university partnerships with three key programs: Centers of Excellence (COEs), Workforce and Professional Development Initiatives, and Minority Serving Institutions (MSIs).

Presenters: DHS Office of University Programs

Georgia Harrigan, Operations Research Analysis

Eleanor Hajian, Program Manager, University Programs

Moderator: **Wendy Walsh**, Higher Education Program Manager, FEMA

Student Reporter: **Erika Amaya**



Monday Workshops (Cont.)

2) **What to Teach in Emergency Management: Thoughts for New Instructors in the Disaster Discipline**

Description: Are you new to the disaster, emergency management, and homeland security community? Do you desire additional knowledge about the fundamental concepts, issues, theories, debates, and literature for your courses in emergency management? If so, this workshop is for you! “What to Teach in Emergency Management” will trace the evolution of emergency management research and discuss important disaster topics and disaster case studies. The workshop will also identify significant schools of thought in emergency management, novel teaching techniques, and future projections in this increasingly important discipline and profession.

Presenter: Dr. David McEntire, SFHEA

Dean, College of Health and Public Service, Utah Valley University

Moderator: Dr. Lynn Tankersley, Mercer University

Student Reporter: Calvin Delisle

3) **Survey of Geographic Information Systems for Disaster Management Research, Teaching and Service**

Description: Offers a survey of how Geographic Information Systems software and methods can be used to support disaster management research, teaching, and practice. Participants will have an opportunity to explore examples of publicly accessible web-based GIS tools and discuss how these resources and others like them can offer opportunities for internships, classroom instruction, community engagement, and research. Guidance will be provided on where to find GIS teaching resources, additional instruction on GIS software and methods, and opportunities for getting involved in the GIS community through professional and academic organizations.

Presenter: Kevin Mickey

Director, Professional Development and Geospatial Technologies Education, The Polis Center at Indiana University Purdue University Indianapolis

Presenter: Unai Miguel Andres

GIS and Data Analyst, The Polis Center at Indiana University Purdue University Indianapolis

Presenter: Marianne Cardwell, GISP, PMP, CSM

GIS Project Coordinator, The Polis Center at Indiana University Purdue University Indianapolis

Student Reporter: Senorajay Weddington



Tuesday at a Glance

Igniting Imagination and Building Community (with SoTL Breakouts)

9:00–9:20 AM EST	Welcome and Opening Remarks Chad Gorman
9:20–9:30 AM EST	Singing Tree Laurie Marshall
9:30–9:40 AM	TRANSITION
9:40–11:00 AM EST	First Steps in Effective Emergency Management Administration: Igniting Imagination to Build and Sustain Community Impact Lee Rush
11:00–11:10 AM	TRANSITION
11:10–12:10 PM EST	Academic Contributions to COVID-19 Response and Recovery Dr. Jack Rozdilsky, Dr. Jennifer Tobin, Dr. Eric Stern, Glen Woodbury
12:10–1:00 PM	LUNCH
1:00–2:05 PM EST	The Scholarship of Teaching and Learning in Homeland Security and Emergency Management: Preparing, Instructing and Assessing for Success in Online Courses Dr. Caroline Hackerott, Dr. Alyssa Provencio, Dr. Cameron Carlson, Dr. George Schwartz
2:05–2:15 PM	TRANSITION
2:15–3:20 PM EST	Integrating Team-Based Learning in the Asynchronous Online Environment Elizabeth Gray, Christopher Sheach, Dr. Jamie Stacy, Dr. Sandy Smith
3:20–3:30 PM	TRANSITION
3:30–4:40 PM EST	The Scholarship of Teaching and Learning: Understanding the Concept and its Application in Academic Programs and Emergency Management Dr. Ekong Peters
4:40–5:00 PM EST	Wrap-up, Evaluation Process, and Daily Information Wendy Walsh
6:30–7:45 PM EST	Poster Session

Share Your Experience at the HiEd Symposium
on Social Media! [#FEMAHiEd2020](https://twitter.com/FEMAHiEd2020)

Tuesday Speakers



Chad Gorman

Acting Assistant Administrator, National Preparedness Directorate, FEMA

He leads efforts to develop integrated preparedness solutions that support FEMA's mission of helping people before, during, and after disasters. Prior to accepting this position in October 2019, he served as the National Exercise Division Director, where he led teams responsible for development and delivery of the national exercise program, homeland security exercise evaluation program, and support of state and local exercises. Mr. Gorman received his Bachelor of Arts from the University of Maryland at College Park and his Masters in Security Studies at the Naval Postgraduate School in Monterey, California. He is also a graduate of Harvard University – John F. Kennedy School of Government's Senior Executive Fellows Program.

Student Reporter: [Megan McClintock](#)



Lee Rush, M.Ed.

Executive Director, justCommunity, Inc.

The non-profit organization, based in Quakertown, Pennsylvania, provides training and consultation services to communities, schools, and organizations in the areas of youth development, community mobilization strategies, student assistance programs, and restorative practices. He also serves as a consultant with Designed Learning, Inc. and has studied with Designed Learning's founder Mr. Peter Block to learn facilitative skills using A Small Group methodology. He is a certified trainer for the International Institute for Restorative Practices and served as the Executive Director of the National Student Assistance Association from 1995 to 2008. Mr. Rush has trained more than 30,000 people throughout the United States and abroad.

Student Reporter: [Bijaya Dhital](#)



Dr. Jack Rozdilsky

Associate Professor and Graduate Program Director, Disaster and Emergency Management, York University

Currently a co-investigator on COVID-19 Rapid Research project sponsored by the Canadian Institutes for Health Research and also the lead for the Operational, Ethical, and Situational Research Challenges in COVID-19 working group sponsored by the U.S. National Science Foundation-funded Social Science Extreme Events Research network. Previously he was a university professor of emergency management in both Illinois and Texas, and he has also worked on hazard mitigation planning efforts.



Dr. Jennifer Tobin

Deputy Administrator, Natural Hazards Center, University of Colorado Boulder

She received her Ph.D. from the Department of Sociology at Colorado State University. Her dissertation research focused on educational continuity following the 2013 Colorado Front Range Floods. She administers the National Science Foundation-funded Quick Response Research Grant Program, is a Research Associate for NSF-funded CONVERGE, SSEER, and ISEER initiatives, is a Principal Investigator for a U.S. Geological Survey-funded project on Earthquake Early Warning and Schools, and served as a Working Group member for *FEMA P-1000 Safer, Stronger, Smarter: A Guide to Improving School Natural Hazard Safety*.

Tuesday Speakers (Cont.)



Dr. Eric Stern

Professor and Chairman of the Faculty, College of Emergency Preparedness, Homeland Security and Cybersecurity, University at Albany (SUNY)

He holds a Ph.D. from Stockholm University and a B.A. from Dartmouth College. He has published extensively in the fields of crisis and emergency management, crisis communication, resilience, security studies, and executive leadership. His book, *The Politics of Crisis Management: Public Leadership Under Pressure* (Cambridge University Press, 2005/2017), is a winner of the American Political Science Association's *Herbert A. Simon Award*. He has collaborated with international organizations as well as Government agencies on a wide range of applied research and educational—including training and exercise development projects.



Glen Woodbury

Director, Center for Homeland Defense and Security, Naval Postgraduate School

He served as the Director of the Emergency Management Division for the State of Washington from 1998 through 2004. He is a Past President of the National Emergency Management Association, a former volunteer firefighter, army communications officer, and he holds a Bachelor of Arts Degree in Engineering Sciences from Lafayette College in Easton, Pennsylvania and a Masters of Arts Degree in Security Studies (Homeland Defense and Security) from the Naval Postgraduate School in Monterey, California.

Student Reporter: Fouad Jajieh



Tuesday Breakouts: SoTL

1) **The Scholarship of Teaching and Learning in Homeland Security and Emergency Management: Preparing, Instructing, and Assessing for Success in Online Courses**

Description: In the wake of an unprecedented flu pandemic, the need to deliver homeland security and emergency management online instruction has never been more important. This presentation provides an overview of the literature for activities that must take place in order to improve current and future practices in online instruction.

Presenter: Dr. Caroline Hackerott

Assistant Professor, Department of Emergency Management, North Dakota State University

Presenter: Dr. Alyssa Provencio

Visiting Assistant Professor, Department of Political Science, University of Central Oklahoma

Presenter: Dr. Cameron Carlson, PMP

Program Director and Director of the Center for the Study of Security, Cyber, Hazards, Response and Preparedness, University of Alaska Fairbanks

Presenter: Dr. George Schwartz, Ed.D.

Director, Bachelor's Program in Emergency Planning and Management, Immaculata University

Moderator: Dr. Linda Kiltz, University of Alaska-Fairbanks

Student Reporter: Christopher Somma

2) **Integrating Team-Based Learning in the Asynchronous Online Environment**

Description: In this session, two different approaches to Team-Based Learning (TBL) asynchronous online strategy are presented, based on undergraduate classes in emergency management policy and politics and emergency management skills using in the asynchronous online environment. Both classes address emergency management next generation core competencies. Best practices, lessons learned, and areas for improvement will be discussed.

Presenter: Elizabeth Gray, JD

Associate Professor, Arkansas Tech University

Presenter: Christopher Sheach

Visiting Instructor, Arkansas Tech University

Presenter: Dr. Jamie Stacy

Professor and Head, Department of Emergency Management, Arkansas Tech University

Presenter: Dr. Sandy Smith, RN

Professor and Head, Department of Emergency Management, Arkansas Tech University

Moderator: Dr. Jamie Stacy, Arkansas Tech University

Student Reporter: Megan McClintock

3) **The Scholarship of Teaching and Learning: Understanding the Concept and its Application in Academic Programs and Emergency Management**

Description: For years, education has gone through transformation and innovation aimed at improving the effectiveness of teaching and learning. One such transformation and innovation is the scholarship of teaching and learning (SoTL). This manuscript reviews current knowledge on SoTL as well as its contribution to the advancement of some academic fields and emergency management. This is done by means of literature review to identify challenges and opportunities facing a variety of disciplines and emergency management in particular.

Presenter: Dr. Ekong Peters

Assistant Professor, Arkansas Tech University

Moderator: Dr. Tomicka Williams, Purdue University Global

Student Reporter: Jaiyeola Onifade

Poster Contest

Join Us Tuesday Evening, June 2nd from 6:30–7:45 p.m.

The annual research poster contest features faculty and students who will present their research and project posters to compete for the **Dr. Tom Phelan Outstanding Poster Award** and the **People’s Choice Award**. Don’t forget to cast your ballot for the People’s Choice Awards! Criteria for the awards are based on: 1) The poster addressing a current emergency management problem, 2) The poster being well organized, 3) The presenter conveying the program or research in a clear and concise manner and being able to answer questions, and 4) the poster and research promoting potential synergy between the academic and practitioner communities.



Moderator: Dr. Ray Chang, Embry-Riddle Aeronautical University

Presenters

Name(s)	Institution	Poster Title
James Budrick, Dominic Patino, Thomas Anglin	Alma College	Creating a Functional Knowledge Base in Youth by Incentivizing Participation in Emergency Management Training
Taylor Alexander, Alex Kingsley, Quinton Moeggenborg	Alma College	Equitable Disaster Relief can be Hindered by Appearance
Chase Beecher, Jacob Dean, Chris Dougherty, Brian Iveson	Alma College	Mitigating Tsunamis with Multiple Low Frequency Acoustic Gravity Waves
Monroe J. Molesky, Jarod Arendsen, Willard Rose, Brandon McDaniel	Alma College	Using Innovative Blockchain Technologies in Emergency Management and Disaster Response
Diego Otegui	University of Delaware	International Deployments Under the Siege of Symbols

Share Fair Participants

For more information about these organizations, download the Share Fair Directory.

The Share Fair provides a great opportunity to share programs, projects, activities, and events from colleges, universities, and agencies. The purpose is to exchange information regarding effective practices related to emergency management education. Some examples might include internship programs, job placement, campus resilience, academic-practitioner collaboration, education for adjunct faculty, student recruitment, graduate tracking or service-learning projects, and successful practices in curricula design, development, and delivery.

- Accenture, LLC
- Center for Homeland Defense and Security
- CONVERGE, Natural Hazards Center, University of Colorado Boulder
- Council for the Accreditation of Emergency Management and Homeland Security Education
- Embry-Riddle Aeronautical, University Worldwide Campus
- Emergency Management Institute
- FEMA/EMI Independent Study
- FEMA Higher Education Program
- FEMA Recruitment

- Institute for Diversity and Inclusion in Emergency Management
- Mid-Atlantic Center for Emergency Management and Public Safety
- Mineta Transportation Institute, San Jose State University
- National Disaster Preparedness Training Center
- Readiness and Emergency Management for Schools Technical Assistance Center
- ResponderStrong
- Security and Emergency Response Training Center



Disclaimer

FEMA is sharing information about these non-federal entities to promote communication and access to resources for higher education communities who focus on emergency management and emergency preparedness. The sharing of this information is not an endorsement by FEMA, DHS, or the U.S. Government. If other organizations would like to share information or be included in distribution, please email requests to rebecca.burns@associates.fema.dhs.gov.

Wednesday at a Glance

Improvisation (with Research Breakouts)

9:00–10:00 AM EST	Play Well with Others: Improvisation, Emergencies and Collaboration Andrew Phelps
10:00–10:10 AM	TRANSITION
10:10–10:40 AM EST	FEMA Resilience Keynote Carlos Castillo
10:40–10:50 AM	TRANSITION
10:50–11:10 AM EST	Teaching with Art and Improvisation Laurie Marshall
11:10–11:20 AM	TRANSITION
11:20–12:10 PM EST	FEMA NTED and Higher Education Program Update Scott Kelberg, Lisa Lofton, Wendy Walsh
12:10–1:00 PM	LUNCH
1:00–2:05 PM EST	Integrating Cybersecurity into Emergency Management Programs Netta Squires, Ben Yelin
2:05–2:15 PM	TRANSITION
2:15–3:20 PM EST	Native Traditions, Mythology and Storytelling: A Modern Framework in Education Norlean Cedeno, Jim Cedeno
3:20–3:30 PM	TRANSITION
3:30–4:40 PM EST	National Security and Emergency Management: A Case Approach to Integration Dr. David McIntyre
4:40–5:00 PM EST	Wrap-up, Evaluation Process, and Daily Information Wendy Walsh
6:00–7:30 PM EST	Sponsored Virtual Reality Happy Hour

Join a Sponsored Virtual Reality Happy Hour!
“The Art of the Possible.” A demo via Microsoft Teams.

Wednesday Speakers



Andrew Phelps
Director, Oregon Office of Emergency Management

He has led the Oregon Office of Emergency Management since 2015. In addition to managing the state's 9-1-1 program and preparedness, recovery, and mitigation grant programs, OEM maintains comprehensive planning, training, exercise, and outreach programs to help Oregon mitigate against, prepare for, respond to, and recover from emergencies and disasters. He has held leadership positions with state, local, and non-profit emergency management and response organizations in New York and New Mexico. He holds degrees from the City University of New York and the Naval Postgraduate School in Monterey, California.

Moderator: **Stephen Carter**, Mid-Atlantic Center for Emergency Management & Public Safety, Frederick Community College

Student Reporter: **Matthew Van**



Carlos Castillo, CEM
Acting Deputy Administrator for Resilience, FEMA

He provides oversight for FEMA's preparedness, grants, insurance, mitigation, and continuity programs. Previously, he oversaw FEMA's Individual and Public Assistance Programs and led development of the Agency's National Disaster Housing Strategy. He has more than 35 years of emergency and disaster management leadership experience at multiple levels of government. He holds a Master in Public Administration degree from Florida International University and has represented the U.S. internationally in disaster management, working with the United Nations, the North Atlantic Treaty Organization, and the Asia-Pacific Economic Consortium.

Student Reporter: **Bijaya Dhital**



Scott Kelberg
Acting Director, National Training and Education Division, National Preparedness Directorate, FEMA

He is responsible for the management and oversight of more than \$214 million in training and education programs including the Center for Domestic Preparedness, Emergency Management Institute, National Domestic Preparedness Consortium, the Center for Homeland Defense and Security, Continuing Training Grants, and the Higher Education Program. He has more than 20 years of experience with DOJ, DHS, and FEMA. He holds a Bachelor's degree from Syracuse University, a Master's degree in Justice, Law and Society from American University, and a certificate from the Center for Homeland Defense and Security.



Lisa Lofton
Supervisor, National Training and Education Division, National Preparedness Directorate, FEMA

She provides leadership to teams working on the Training Partners Program and the Higher Education Program. Previously, she served as the National Preparedness Directorate Senior Analyst, where she led strategic planning and special projects. She has more than 30 years of experience with FEMA and DHS to her position, including assignments in Federal response and national preparedness. She holds a Bachelor's degree from Haverford College and certificates from the George Washington University Graduate School of Education and Human Development and the Executive Leaders Program at the Center for Homeland Defense and Security.



Wendy Walsh
Higher Education Program Manager, National Training and Education Division, FEMA

Prior to accepting her current position in 2015, she served as the Homeland Defense and Security Coordinator at the Naval Postgraduate School in Monterey, and as a Presidential Management Fellow and Citizen Corps Program Specialist within the DHS Preparedness Directorate. She holds a B.A. in Political Science, MPA from Sonoma State University, and certificates in Systems Engineering and Design, Partnering, Management and Innovation. She is currently working on a Doctorate in Education Leadership.

Student Reporter: **Christopher Somma**

Wednesday Breakouts: Research

1) **Integrating Cybersecurity into Emergency Management Programs**

Description: Emergency Management must adapt to the threat climate: from natural disasters to vehicle ramming and cybersecurity. As the most rapidly developing threat, cyberattacks could impact millions. Cybersecurity is rapidly growing professionally and academically. The panel will discuss why and how emergency management should integrate cybersecurity into emergency management higher education programs.

Presenter: Netta Squires, JD, MSL, CEM

Senior Law and Policy Analyst and Emergency Preparedness Specialist, UMB Law School, Center for Health and Homeland Security

Presenter: Ben Yelin, JD

Program Director, Public Policy and External Affairs

Moderator: Dr. Alexander Siedschlag, The Pennsylvania State University

Student Reporter: Senorajoy Weddington

2) **Native Traditions, Mythology and Storytelling: A Modern Framework in Education**

Description: Both the colonization and transculturation of Native Americans over the past several centuries have created major impediments for the academic advancement of Native populations. Delivery of culturally-appropriate educational approaches engages students and creates hunger for additional learning. Appropriate teacher preparation for successful course delivery to Native populations in higher learning can help increase the number of Native students successfully completing their degree programs.

Presenter: Norlean Cedeno

Education and Training, Winds of Progress

Presenter: Jim Cedeno

Emergency Manager, Winds of Progress

Moderator: Dr. Linda Martinez, California State University - Long Beach

Student Reporter: Natale Spaid

3) **National Security and Emergency Management: A Case Approach to Integration**

Description: Emergency management and national security have long competed for attention as both seek to promote the general welfare of the Nation. After 9/11, domestic security took pride of place. Following Katrina and counter-terrorism successes, focus returned to hazards and natural disasters. Recently the emphasis on “peer competition” in the 2017 National Security Strategy and 2018 National Defense Strategy has reinvigorated concerns over national security, as has the COVID-19 pandemic. Newly available frameworks (FEMA Toolkits, CISA Critical Function Sets, etc.) can promote balance and understanding, if they are integrated to provide multi-disciplinary perspectives on how well-documented cases might pose threats at the national security level.

Presenter: Dr. David McIntyre

Lecturer, Bush School of Government and Public Service, Texas A&M University

Moderator: Dr. Dean Kyne, University of Texas Rio Grande

Student Reporter: Erika Amaya

Singing Tree



Don't forget to visit the Singing Tree, a mural created by graphic facilitator Laurie Marshall during the Higher Education Symposium. Adding to an international forest of more than 5 Singing Tree murals made by 18,000+ people from 50 countries, the FEMA Higher Education community tree will be on display for you to share your hopes and inspirations. Each mural in the forest addresses a community challenge and brings forward unique and innovative solutions, honoring every voice and vision. All Symposium participants are invited to contribute.

Additional pages can be found in Appendix A.

Gracious Space

Gracious Space is a core body of work developed by the Center for Ethical Leadership that has helped more than 15,000 people in 30 states and 45 countries to work better together around critical issues. The Center has created and used Gracious Space in many sectors, including health care, business, government, community, nonprofit, and schools.

Most groups are made up of well-meaning people who find themselves in situations of conflict with others. Whether the project is a leadership development program, community initiative, difficult conversation on race, a reorganization, performance appraisal, coaching conversation, new vision, mission or strategic plan, a new team, or mediation – Gracious Space can make the relationships stronger and the workflow more creatively.

Gracious Space is inherently a process that values inclusion and diversity; many community organizations find it to be an essential part of their racial equity strategy. For more information: ethicalleadership.org/

Spirit
of inclusiveness, open to learning and sharing, self-respectful, solution orientated

Setting
physical spaces that are comfortable, well-lit, and temperate - mindful orientation of the format to support exchange

Welcoming the Guest
we all have different backgrounds and perspectives - there is beauty and strength in diversity - take time to understand and listen

Learning in Public
let go of certainty, expertise, and solutions that you may have come with to make space for new ideas and collective wisdom to emerge

Thursday at a Glance

Innovation (with Policy & Administration Breakouts)

9:00–10:00 AM EST	Making New, Normal: How Region VIII Leads the Way in Innovation Lee dePalo
10:00–10:10 AM	TRANSITION
10:10–10:40 AM EST	2020 FEMA Higher Education State of the Community Dr. DeeDee Bennett
10:40–10:50 AM	TRANSITION
10:50–12:00 PM EST	The Educators' Dilemma: How Can Emergency Management and Homeland Security Professors Learn from Online Content Innovators Dr. Rodrigo Nieto-Gómez
12:00–1:00 PM	LUNCH
1:00–2:05 PM EST	Ethics for Emergency Management Dr. Sandy Smith, Dr. Shirley Feldmann-Jensen, Dr. Steven Jensen, Dr. Alyssa Provencio, Dr. David Etkin
2:05–2:15 PM	TRANSITION
2:15–3:20 PM EST	Nursing Administration and Emergency Management: A Hybrid MSN Program Dr. Jennifer Helms
3:20–3:30 PM	TRANSITION
3:30–4:40 PM EST	A DIET for Emergency Management: A Diversity Inclusion and Equity Transformation Dr. S. Atyia Martin
4:40–5:00 PM EST	Wrap-up, Evaluation Process, and Daily Information Wendy Walsh

2021 Symposium

SAVE THE DATE:

23rd Annual Emergency Management Higher Education Symposium

June 7–10, 2021

Thursday Speakers



Lee dePalo
Regional Administrator, FEMA Region VIII

In November 2017, he was appointed Regional Administrator for FEMA Region VIII, including Colorado, Montana, North Dakota, South Dakota, Utah, and Wyoming, and 29 tribal nations. He joined FEMA in January 2014 as a Federal Coordinating Officer, leading disaster operations in FEMA VIII. Previously, he served as Response Division Director and Acting Deputy Regional Administrator. He is also a U.S. Air Force veteran of 26 years, including combat deployments to Afghanistan, Iraq, Haiti, Pakistan, Uzbekistan, and Turkey. He graduated from the U.S. Air Force Academy in 1986.

Moderator: **Daniel Green**, Resilience Analyst

Student Reporter: **Fouad Jajieh**



Dr. DeeDee Bennett
Assistant Professor, State University of New York-Albany

Her research interests include emergency management, socially vulnerable populations during disasters, emergency communications, disaster policy, and mobile wireless communications. She broadly examines the influence and integration of advanced technologies on the practice of emergency management, and for use by vulnerable populations. She has secured 12 research grants from the National Science Foundation and DHS. She received her Ph.D. from Oklahoma State University in Fire and Emergency Management and received both her M.S. in Public Policy and B.S. in Electrical Engineering from the Georgia Institute of Technology.

Student Reporter: **Pandora Walker**



Dr. Rodrigo Nieto-Gómez
Research Professor, National Security Affairs Department, Center for Homeland Defense and Security, Naval Postgraduate School

He is a geo-strategist and defense futurist focused on the consequences of the accelerating pace of change in homeland security and emergency management environments. Previously, he has worked as a certified facilitator and instructor for the Command College for the California Commission on Peace Officer Standards and Training and an instructor at the Executive Academy of the Emergency Management Institute. He is also a faculty member of Singularity University.

Moderator: **Steve Recca**, Center for Homeland Defense and Security, Naval Postgraduate School

Student Reporter: **Jaiyeola Onifade**



Thursday Breakouts: Policy & Admin

1) **Ethics Framework for Emergency Management: A Beginning**

Description: Professional ethics delineate expected and appropriate conduct, principles, and values for guiding practice in the midst of known and uncertain environments. Values-based decision making is an indispensable element of emergency management and resilience-building considerations. A panel of Ethics SIG members will share their current work toward an emergency management ethical framework and cataloging ethics curricular resources. Ethical issues arising in higher education amid COVID-19 will also be discussed.

Presenter: Dr. Sandy Smith, RN

Professor and Head, Department of Emergency Management, Arkansas Tech University

Presenter: Dr. Shirley Feldmann-Jensen

Program Coordinator and Lecturer, Emergency Services Administration, California State University, Long Beach

Presenter: Dr. Steven Jensen

Chair, Preparedness and Disaster Health, Scientific Advisory Council for the American Red Cross and

Lecturer and Advisor, Emergency Services Administration, California State University Long Beach

Presenter: Dr. Alyssa Provencio

Visiting Assistant Professor, Department of Political Science, University of Central Oklahoma

Presenter: Dr. David Etkin

Associate Professor of Disaster and Emergency Management, York University

Moderator: Jude Colle, California State University-Long Beach

Student Reporter: Natalie Spaid

2) **Nursing Administration and Emergency Management: A Hybrid MSN Program**

Description: Describes a multidisciplinary approach to graduate education in nursing between the Department of Emergency Management and the Department of Nursing. This program, leading to a Master of Science in Nursing Administration and Emergency Management, offers a specialized program of study serving the educational needs of professional nurses actively engaged or planning to enter a profession related to administration, leadership, and emergency management in a variety of health care settings. The facilitators and challenges of offering this unique hybrid program, coordinated by two campus departments, will be addressed in detail.

Presenter: Dr. Jennifer Helms, RN

Professor and Graduate Program Director, Department of Nursing, Arkansas Tech University

Moderator: Dr. Goulda Downer, FAND, RD, LN, CNS, Howard University College of Medicine

Student Reporter: Matthew Van

3) **A DIET for Emergency Management: A Diversity Inclusion and Equity Transformation**

Description: Emergency management has struggled with a range of diversity, equity, and inclusion challenges in the field: from diversifying the pipeline to ensuring equitable outcomes after disasters. This presentation will offer research-based, experience-informed, and practical approaches to intentionally embedding equity into emergency management practice. We will reframe our understanding of the root causes of inequities as well as review short-term and long-term actions that will help emergency managers.

Presenter: Dr. S. Atyia Martin, CEM

CEO and Founder of All Aces, Inc.

Moderator: Pamela Bingham, Bingham Consulting Services/Tennessee State University

Student Reporter: Pandora Walker

Special Interest Groups

What are your talents and passions? How can you share them with the Emergency Management Higher Education community? **JOIN A SPECIAL INTEREST GROUP (SIG)!** All are welcome!

SIGs serve as a focal point for community development in their specialty areas, potentially co-authoring papers, conducting research, supporting curriculum development, and working as Subject Matter Experts. SIGs develop and disseminate information in their chosen topic of interest broadly across the community.

To join, contact Rebecca Burns: rebecca.burns@associates.fema.dhs.gov

For more information: training.fema.gov/hiedu/specialinterest/sig.aspx

Case Teaching and Learning

Leads: Jane Kushma, Jean Slick

Offers a forum for educators interested in developing emergency management cases and the pedagogical approaches to using them. Case teaching offers a rich environment for learning to take place, helping students explore how what they have learned in the classroom applies to real-world situations. Cases help students develop critical thinking, problem-solving, and decision-making skills. Working on cases in groups may help students develop interpersonal and teamwork skills. This SIG facilitates the exchange and co-creation of case and instructional materials and supports skill development in implementing and evaluating this method.

Collaboration, Connection, and Commitment to 2-Year Programs

Lead: Kathy Francis

Works to inspire and motivate FY18 Symposium submissions on topics relevant to or supporting 2-year institutions. The group will serve as an advocate between 2-year colleges nationwide and EMI, support the collaboration and connections between institution program leads, and advance knowledge dissemination.

Ethics

Leads: Sandy Smith, Shirley Feldmann-Jensen

The moral basis for action within the emergency management field has not yet been well established and articulated. Ethical matters are seldom clear in discourse, and as a result, are not thoroughly debated. This SIG answers the call to begin the dialogue. The collective discourse will not only move toward the formation of an emergency management ethical framework, but will also consider how to best incorporate ethics instruction into emergency management education programs.

Information Exchange and Symposium Planning

Leads: Wendy Walsh, Jamie Stacy

Focuses on disseminating academic discipline materials, publications, programs, and efforts to build and foster an emergency management and homeland security academic community of practice. A large part of this group's work revolves around the annual FEMA Emergency Management Higher Education Symposium, to create a welcoming community event with a myriad of quality academic professional development opportunities.

International Emergency Management

Leads: Ray Chang, Jean Slick

The annual FEMA Higher Education Symposium continues to attract participants who live and work outside of the United States and who share an interest in the advancement of higher education in emergency management and related fields of study. This SIG evolved out of an interest in having a forum for participants to connect with others at the annual Symposium who have an interest in exploring research, practice, and teaching issues in an international context.

Jobs and Internships

Leads: Stacy Willett, Joe Arsenault

This SIG serves as the Higher Education community hub for inquiry, information, and sharing of good practices to create and sustain meaningful internships and successful job placement in the field of emergency management. This SIG is specifically interested in supporting FEMA and DHS, as well as other state, local, and private sector emergency managers to recognize and leverage the extraordinary value of emergency management and homeland security students.

Special Interest Groups (Cont.)

New Program Resources and Support

Leads: David Taylor, Stephanie Lipson Mizrahi

This peer-supported SIG offers support and mentoring to individuals and institutions considering new academic programs in emergency management and homeland security, or those looking to revise programs based on lessons learned over the past two decades. The goal is to design programs of excellence that incorporate, from the onset, high standards and next generation core competencies. This SIG is uniquely focused on keeping programs flexible and adaptable in a constantly changing field and, in particular, implementing changes required in this current crisis to meet short- and long-term goals. We welcome faculty and practitioners willing to provide guidance, consultation, mentoring, and lessons learned. Potential activities include sponsored webinars, virtual focus groups, research, and socials.

Race, Ethnicity, and Economic Impacts

Lead: Meldon Hollis

Recognizes the rich diversity of the communities served by the emergency management field of practice and focuses on curricula, research, teaching tools, and other resources required to facilitate learning in the academic emergency management discipline. This SIG is interested in supporting the development of faculty and students to promote understanding and inclusivity, and recognize the impact of current narratives, policy decisions, and practice on people of various races, ethnicities, and economic dispositions.

Scholarship of Teaching and Learning (SoTL)

Leads: Mark Landahl, Caroline Hackerott

Focuses on the pedagogical and andragogic theories and tools applicable to the design and delivery of education within the emergency management discipline. Members examine the potential outcomes of integrating instructional strategies including experiential learning, program and course assessment, online learning, and creating and maintaining community partnerships. This SIG serves as a resource to share empirically supported state-of-the-art practices in data collection from emergency management and homeland security classrooms and programs. Activities include supporting a research method Focus Group which connects emergency management educators with other disciplinary educational researchers through higher education research professional organizations.

Service Learning and Leadership

Leads: Elizabeth Dunn, Rebecca Morgenstern Brenner, Lucia Velotti

Focuses on exploring experiential education in emergency management course curriculum by fostering ideas, developing strategies, and conducting research that looks at how to combine classroom instruction with organized service to the community with an emphasis on civic engagement, reflection, and the application of learning.

Student Perspectives and Academic Learning

Lead: Terry Cooper

Offers an open forum for students to network and interact on academically related needs of students in emergency management programs. As academicians seek more innovative and interactive methods of teaching and student-learning initiatives, student perspectives provide valuable insight into methods that students enjoy and find successful in their academic matriculation. Through collaborative insight of students and academicians, a network of professionals and students can be fostered that can provide opportunities for mentorship, research, and progression of students into academia.

Theory and Research

Leads: Joel Palmer, Ray Chang

This SIG grew out of discussions at the 2016 FEMA Higher Education Symposium. That discussion led to a group intended to bring together researchers, academics, and operational personnel at all levels, interested in theory and research in emergency management, and provide opportunities for collaboration year-round.

Unity of Effort: National Preparedness and Workforce Development

Leads: Larry Porter, Jim Ramsay, Romeo Lavarias, Daryl Spiewak

A recently merged effort between the two formerly independent Accreditation and Unity of Effort SIGs. This SIG is about bringing together passionate and energetic professionals who want to impact and advance the emergency management and homeland security professions. We see possibilities and realize opportunities for emergency management and homeland security professionals to strategically operate synergistically, expand accreditation efforts, to optimize training and education, and to help develop academic degree programs produce a qualified workforce that serves humanity.

Future Faculty Spotlight

Congratulations to our community's 2020 Doctoral candidates!



Shahinshah Azim
Penn State Harrisburg
Relationships of Built Environment with Dietary and Physical Activity Lifestyles and Obesity Prevalence



David J. Tanui
New Jersey City University
Assessment of Sanctions as a Tool for Counter-Terrorism Financing. The Case of the Islamic State (ISIS)



Joseph Hafer
Penn State Harrisburg
The Theory of Pragmatic Governance: A Classic Grounded Theory Study of Pennsylvania's Bureau of Forestry Governance Practice



William Spencer
Indiana University of Pennsylvania
Emergency Manager's Perception on Higher Education



Turgay Karagoz
Penn State Harrisburg
Factors Determining the Adoptions of Information Technology Applications by Municipal Governments: A Network Perspective



Diego Fernández Otegui
Disaster Research Center, University of Delaware
International Deployments Under the Siege of Symbols



Glenn McGuigan
Penn State Harrisburg
Knowledge Dissemination in Public Administration: Measuring Academic Scholarship with Social Network Analyses of Scholarly Journal Citations in Public Administration and Related Fields



Courtney Tan
Northeastern University
The Strength of Hyperlocal Ties



Michael Seavers
Penn State Harrisburg
Citizens' Perception and Use of Governmental Transparency: Effects on Citizen Trust and Participation in Government



Cihan Aydiner
Louisiana State University
Motivation, Higher Education, Belonging, and Development: Integration of Highly Educated Immigrants into the Western Labor Market



Emmanuel Pierre-Louis
New Jersey City University
Evaluating the Efficacy of Campus Emergency Notifications by Examining Faculty and Staff Perceptions



Scott Melligan
Capella University
Hurricanes Floyd and Matthew: The Lived Experiences of Small Business Owners

Appendix A: Singing Tree Attachments

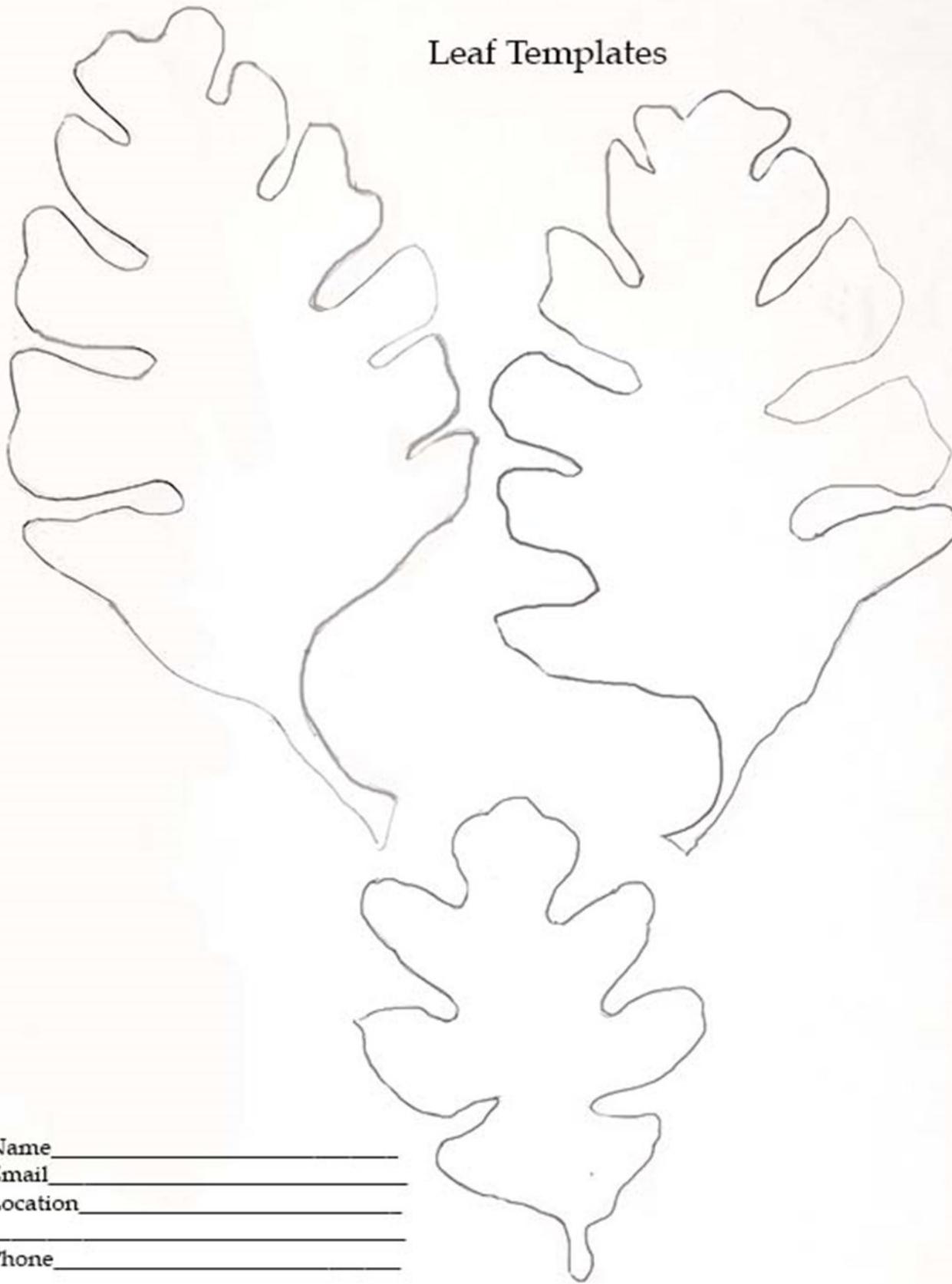
Thank you for adding your vision to the FEMA Singing Tree of Learning!

1. **Print a sheet of Leaves and Birds.** Be sure to put your contact information on each page.
2. **Hold these questions in your heart for the leaves:**
 - A. When were you at the right place at the right time in your work?
 - B. Just as a leaf turns Light into Food, how do you turn your knowledge and skills into service?
 - C. Just as a leaf falls from the tree and fertilizes the ground, what legacy do you want leave?
3. **Please hold this question in your heart for the birds:**
 - A. What is highest hope for your work in FEMA?
 - B. What is your wish for humanity at this time?
4. **Let your feelings and ideas flow on to the space inside the leaf and bird shapes. You can draw your own bird, if you'd like.** Trust your hand. Don't overthink it. Have fun. Be wild. You are part of Nature. Make an image with colored pencils, ink, marker, glitter, natural objects, found objects, photographs, or paint. Adding words is fine. You can use colors, patterns, made-up symbols. You can fill as many of the leaves and birds as you want.
5. **On the separate piece of paper or on the pages with your drawing, write about what your drawings mean and anything you want people to know about your images.**
6. **Options for returning:**
 - A. Cut out the leaves and birds and mail them to Laurie Marshall at *35 Ramona Court, Novato, CA 94945*.
 - B. Take a picture of or scan each page and send them to SingingTreeProject@gmail.com. We'll print them out, cut them out and record the information, then send them to Wendy who will add them to the Singing Tree. Call 415-612-0401 if you have questions. Thank you.



Appendix A: Singing Tree Attachments

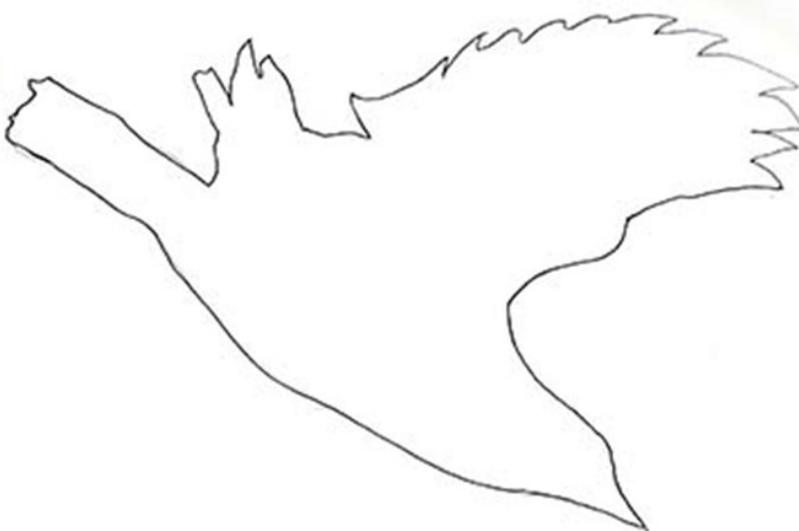
Leaf Templates



Name _____
Email _____
Location _____
Phone _____

Appendix A: Singing Tree Attachments

Bird
Templates



Name _____ Age _____
Email _____