

JOURNAL OF HOMELAND SECURITY AND EMERGENCY MANAGEMENT

EDITOR-IN-CHIEF

Irmak Renda-Tanali, University of Maryland University College, USA

MANAGING EDITOR

Sibel McGee, Analytic Services Inc., USA

ASSISTANT MANAGING EDITORS

Jane A. Kushma, Jacksonville State University, USA

Lucien G. Canton, City and County of San Francisco, USA

Dennis M. Egan, Egan Engineering Support Services (EESS), USA

Holly T. Goerdel, University of Kansas, USA

Arthur A. Liberty, University of Maryland, USA

COPY EDITOR

Jane C. Cotnoir, ICMA, USA

DE GRUYTER

Created in 2004, the *Journal of Homeland Security and Emergency Management* (JHSEM) is an online journal that publishes original, innovative, and timely articles describing and assessing research and practice in the fields of homeland security and emergency management. JHSEM publishes not only peer-reviewed articles but also opinion, news/communiqués, and book/media reviews. Its electronic format allows us to leverage communication technologies in order to accumulate and disseminate the latest knowledge on a broad range of related topics in a timely and inexpensive manner. However, the journal is also offered in print format for those who prefer the traditional media.

ISSN 2194-6361 · e-ISSN 1547-7355

All information regarding notes for contributors, subscriptions, Open Access, back volumes and orders is available online at <http://www.degruyter.com/jhsem>.

RESPONSIBLE EDITOR Irmak Renda-Tanali, 3501 University Boulevard East, Adelphi, Maryland 20783-8030, USA, Email: irmak.renda-tanali@umuc.edu; Sibel McGee, Applied Systems Thinking Institute, Analytic Services Inc., 5275 Leesburg Pike, Suite N-5000, Falls Church, Virginia 22041, USA, Email: sibel.mcgee@anser.org

JOURNAL MANAGER Alexander Goerlt, De Gruyter, Genthiner Straße 13, 10785 Berlin, Germany, Tel.: +49 (0)30 260 05 – 234, Fax: +49 (0)30 260 05 – 250, Email: alexander.goerlt@degruyter.com

RESPONSIBLE FOR ADVERTISEMENTS Claudia Neumann, De Gruyter, Genthiner Straße 13, 10785 Berlin, Germany. Tel.: +49 (0)30 260 05-226, Fax: +49 (0)30 260 05-322, Email: anzeigen@degruyter.com

TYPESETTING Compuscript Limited, Shannon, Ireland

PRINTING Franz X. Stückle Druck und Verlag e.K., Ettenheim

© 2014 Walter de Gruyter GmbH, Berlin/Munich/Boston

Printed in Germany



Contents

Opinion Articles

Karla Vermeulen

Understanding Your Audience: How Psychologists Can Help Emergency Managers Improve Disaster Warning Compliance — 309

Terrence M. O'Sullivan and Roger Emmelhainz

Reframing the Climate Change Debate to Better Leverage Policy Change: An Analysis of Public Opinion and Political Psychology — 317

Jim Ramsay

Research and Policy In Homeland Security and Climate Change: Results From a Roundtable on Climate Change and Homeland Security — 337

Research Articles

Victoria A. Johnson, David M. Johnston, Kevin R. Ronan and Robin Peace

Evaluating Children's Learning of Adaptive Response Capacities from ShakeOut, an Earthquake and Tsunami Drill in Two Washington State School Districts — 347

Lauren A. Clay, James B. Goetschius, Mia A. Papas and James Kendra

Influence of Mental Health on Disaster Preparedness: Findings from the Behavioral Risk Factor Surveillance System, 2007–2009 — 375

D. K. Yoon, Jessica Jensen and George A. Youngs

Volunteer Fire Chiefs' Perceptions of Retention and Recruitment Challenges in Rural Fire Departments: The Case of North Dakota, USA — 393

Yvette Joyce Johnson, Yvonne Nadler, Eugene Field, Maung San Myint, Marilyn Sue O'Hara-Ruiz, Anna Ruman, Steve Olson, John Arthur Herrmann, Johanna Briscoe, Marisa Hickey and James Kunkle

Flu at the Zoo: Emergency Management Training for the Nation's Zoos and Aquariums — 415

Daniel J. Klenow and Jeffrey L. Reibestein

Eyes to the Sky: Situating the Role of Storm Spotters in the Warning and Response Network — 437