

Time	Session ID	Session Theme (Convener)	Session ID	Session Theme (Convener)	
October 21 (Tue)					
09:30-11:00	C-1	TIEMS 2014 in Niigata Opening Ceremony			Poster Session
11:10-12:30	A-2	Disaster Information (FUJINAWA)	B-2	Risk Management (OHARA)	
14:00-17:00	C-3	Open Forum			
October 22 (Wed)					
09:30-10:50	A-4	Business Continuity Management / Disaster Recovery (WATANABE)	B-4	Disaster Drill (SAYANAGI)	Poster Session
11:00-12:20	A-5	Education / Participatory Approach (MAKI)	B-5	Case Studies (TASHIRO)	
14:00-16:30	S-6	Special Session Collaborated with MEXT Special Project on "Reducing Urban Mega Earthquake Disasters"		(None)	
			B-7	(15:00 – 16:20) Contingency Plan (ONO)	
16:40-17:40	C-8	Annual Meeting of TIEMS			
17:40-18:00	P-9	Poster Session - Core Time -			
October 23 (Thu)					
09:30-11:10	A-10	Geo Information Technology / Others (MAKI)	B-10	Meteorological Disasters (MARUYAMA)	
11:20-12:30	C-11	TIEMS 2014 in Niigata Closing Ceremony			

[Meaning of Session ID]

A: Track-A for Oral Presentation

B: Track-B for Oral Presentation

P: Poster Session (Core-Time)

S: Special Session collaborated with other project

C: Common Session for All TIEMS Participants

## General Information

### Oral Presentation

For each presenter              Presentation: 15 min  
  Discussion: 5 min

### Poster Session

Poster Boards: One poster board is prepared for each presenter. Poster boards are in landscape format with a dimension of 120 cm width x 216 cm height.  
The poster size is determined by the author.

Set-up: Before noon on October 21, 2014  
Core-Time: 17:40 - 18:00 on October 22, 2014

Session: A-2

Date/Time: Oct 21  11:10 - 12:30

Room: Marine Hall (4<sup>th</sup> floor)

Theme: Disaster Information

Convener: Yukio FUJINAWA

1. 未曾有大災害に備えるスマートコミュニティ  
藤縄 幸雄<sup>1)</sup>, 野田洋一<sup>2)</sup>
  - 1) 最高技術顧問, (株) ミエルカ防災
  - 2) 研究員, (有) テラテクニカ
2. Using Technology To Aid Business Continuity Pre and Post Disaster  
T. Duffy<sup>1)</sup> and T. Shannon<sup>2)</sup>
  - 1) Doctoral Researcher, Center of Disaster Risk Policy, Florida State University
  - 2) Program Coordinator, Center of Disaster Risk Policy, Florida State University
3. Developing a Web-based Platform to Share Disaster Risk Reduction Technology  
Young-Jai Lee<sup>1)</sup>
  - 1) School of Business, Dongguk University
4. Utilization of Small Unmanned Aerial Systems in Rural and Developing Area Disaster Management  
D. Merrick<sup>1)</sup>, J. Broder<sup>2)</sup>, and R. McDaniel<sup>3)</sup>
  - 1) Director, Center for Disaster Risk Policy, Florida State University
  - 2) Deputy Director, Center for Disaster Risk Policy, Florida State University
  - 3) Senior Fellow, Center for Disaster Risk Policy, Florida State University

Session: A-4

Date/Time: Oct 22  09:30 - 10:50

Room: Meeting Room 201

Theme: Business Continuity Management / Disaster Recovery

Convener: Kenji WATANABE

1. Limitation of individual BCMs (Business Continuity Management) and importance of community-based BCM in wide-area disasters

Kenji Watanabe<sup>1)</sup>

1) Professor, Graduate School of Social Engineering, Nagoya Institute of Technology

2. 新潟県中越地震と中越沖地震との復旧・復興過程の比較 ～「復旧・復興カレンダー」手法を用いた無作為抽出社会調査結果

Reo Kimura<sup>1)</sup>, Munenari Inoguchi<sup>2)</sup>, Keiko Tamura<sup>3)</sup>, Haruo Hayashi<sup>4)</sup>

1) 准教授, 兵庫県立大学環境人間学部

2) 助教, 新潟大学災害・復興科学研究所

3) 教授, 新潟大学危機管理室

4) 教授, 京都大学防災研究所

3. AREA BUSINESS CONTINUITY MANAGEMENT, A NEW APPROACH FOR SUSTAINING LOCAL ECONOMY

H. Baba<sup>1)</sup>, T. Watanabe<sup>2)</sup>, K. Miyata<sup>3)</sup> and H. Matsumoto<sup>4)</sup>

1) Senior Advisor, Japan International Cooperation Agency (JICA)

2) Senior Advisor to the Director General, Global Environment Department, JICA

3) Director of Disaster Management Division 1, Global Environment Department, JICA

4) Deputy Director of Disaster Management Division 1, Global Environment Department, JICA

4. Critical Infrastructure Systems: A Case Study of the Interconnectedness of Risks Posed by Hurricane Sandy for New York City

Masahiko Haraguchi<sup>1)</sup>

1) Ph.D. Candidate, Department of Earth and Environmental Engineering, Columbia University

Session: A-5

Date/Time: Oct 22 11:00 - 12:20

Room: Meeting Room 201

Theme: Education / Participatory Approach

Convener: Norio MAKI

1. Participatory Governance in Emergency Response

K. Harald Drager<sup>1)</sup>, Dr. Kailash Gupta<sup>2)</sup>, Dr. James C. Hagen<sup>3)</sup>, and Dr. Thomas V. Robertson<sup>4)</sup>

- 1) President, The International Emergency Management Society (TIEMS)
- 2) Director, India Chapter, The International Emergency Management Society (TIEMS)
- 3) Professor, Graham School of Management, Saint Xavier University
- 4) Principal, Thinking Teams

2. An Attempt to Construct A Classification of Disaster Educational Program Based on Cases of “Disaster Management Education Challenge Plan”

Kota TOMOYASU<sup>1)</sup> and Reo KIMURA<sup>2)</sup>

- 1) Graduated Student, Human Science and Environment, Hyogo University
- 2) Associate Professor, Human Science and Environment, Hyogo University

3. JUSTICE APPRAISAL MODEL OF PARTICIPATION MITIGATION PROGRAM OF MERAPI ERUPTION IN YOGYAKARTA INDONESIA

Muhammad Wahyu Kuncoro<sup>1)</sup>, Anwar<sup>1)</sup>

- 1) Faculty of Psychology, University of Mercu Buana Yogyakarta, Indonesia

4. 熊本県宇城市における台風災害を対象とした防災・減災教育用教材

Kei Maruyama<sup>1)</sup>

- 1) Professor, Disaster Prevention Research Institute, Kyoto University

Session: A-10

Date/Time: Oct 23 09:30 - 11:10

Room: Marine Hall (4<sup>th</sup> floor)

Theme: Geo Information Technology / Others

Convener: Norio MAKI

1. Integration of GIS with Remote Sensing and GPS for Disaster Mitigation

Sikander Nawaz Khan<sup>1)</sup>

- 1) Student, Information Technology, University of Gujrat, Gujrat, Pakistan

2. Significance of Space Technologies for Multi-hazard Disaster Risks

Meen B. Poudyal Chhetri<sup>1)</sup>

- 1) President, Nepal Center for Disaster Management (NCDM)

3. DO ROBOTS CONSTITUTE A HELP IN CRISIS MANAGEMENT?

E. Rodriguez<sup>1)</sup>, S. Mozziconacci<sup>2)</sup>, L. Verneuil<sup>3)</sup>, J.P. Monet<sup>4)</sup>

- 1) Captain, Officer of Bouches-du-Rhône Fire Department (BDRFD)
- 2) Captain, Officer of BDRFD, project officer
- 3) Aggregational professor, HSE department of the Tulle University, Institute of Technology

4) Lieutenant-colonel of BDRFD, CBRNE regional advisor

4. The Dynamic Simulation Research of Overburden Strata Failure Characteristics and Stress Dependence of Metal Mine

Kang Zhao<sup>1)</sup>, Kui Zhao<sup>1)</sup>, Xiaodong Zhao<sup>1)</sup>

1) School of Architectural and Surveying Engineering, Jiangxi University of Science and Technology, Ganzhou, China

Session: B-2

Date/Time: Oct 21 11:10 - 12:30

Room: Meeting Room 303-304

Theme: Risk Management

Convener: Miho OHARA

1. CURRENT ISSUES REGARDING THE INCIDENT COMMAND SYSTEM IN THE PHILIPPINES

Miho OHARA<sup>1)</sup>, Hisaya SAWANO<sup>2)</sup>

1) Senior Researcher, Public Works Research Institute, International Centre for Water Hazard and Risk Management (ICHARM)

2) Chief Researcher, Public Works Research Institute, International Centre for Water Hazard and Risk Management (ICHARM)

2. Should society's safety-efforts be oriented towards everything or anything?

Borell Jonas<sup>1)</sup>

1) Lund University Department of Design Sciences, Division of Ergonomics and Aerosol Technology

3. COMPARISON BETWEEN ICS AND EUROPEAN COMMAND SYSTEMS WAYS OF INTEROPERABILITY

M. Dumas<sup>1)</sup>, S. Lahaye<sup>2)</sup>, P. Schaller<sup>3)</sup>, J.P. Monet<sup>4)</sup>

1) Lieutenant-colonel, head of operational division, Bouches-du-Rhône Fire Department(BDRFD)

2) Captain, officer of BDRFD

3) Lieutenant-colonel, head of instruction division, French national officers' fire academy

4) Lieutenant-colonel, BDRFD, CBRNE regional advisor

4. 危機対応標準の普及展開に向けたチェックリストの検討

爰川 知宏<sup>1)</sup>, 一ノ瀬 文明<sup>1)</sup>, 小阪 尚子<sup>2)</sup>, 小山 晃<sup>2)</sup>, 前田 裕二<sup>3)</sup>, 黄野 吉博<sup>4)</sup>, 林 春男<sup>5)</sup>

1) 主任研究員, NTTセキュアプラットフォーム研究所

2) 研究員, NTTセキュアプラットフォーム研究所

- 3) 主幹研究員, NTT セキュアプラットフォーム研究所
- 4) 代表理事, レジリエンス協会
- 5) 教授, 京都大学防災研究所

Session: B-4

Date/Time: Oct 22 09:30 - 10:50

Room: Meeting Room 303-304

Theme: Disaster Drill

Convener: Yasutake SAYANAGI

1. Study for the Practical Way to implement the BCP Street-Wide Exercise in the Banking Industry  
Yasutake Sayanagi<sup>1)</sup>, Kenji Watanabe<sup>2)</sup>
  - 1) Graduate fellow, Nagoya Institute of Technology
  - 2) Professor, Nagoya Institute of Technology
2. DEVELOPMENT OF NERSS TRAINING PROGRAM FOR EARTHQUAKE EMERGENCY RESPONSE CAPACITY BUILDING OF LOCAL GOVERNMENTS  
LAI Junyan<sup>1)</sup>, BAI Pengfei<sup>1)</sup>, DING Lu<sup>1)</sup>, ZHANG Yuan<sup>1)</sup>, HAYASHI Haruo<sup>2)</sup>, KIMURA Reo<sup>3)</sup>, HOSOKAWA Masafumi<sup>4)</sup> and SAKURADA Yukihiisa<sup>5)</sup>
  - 1) Engineer, National Earthquake Response Support Service
  - 2) Professor, Disaster Prevention Research Institute, Kyoto University
  - 3) Associate Professor, School of Human Science and Environment, Hyogo University
  - 4) Group leader and Senior Researcher, Earthquake and Natural Disaster Laboratory, National Research Institute of Fire and Disaster
  - 5) Researcher, Disaster Prevention Research Institute
3. Blackout 2014 - Prague, the Capital of the Czech Republic Exercise  
Pejcoch, Jaroslav<sup>1)</sup>
  - 1) T-SOFT a.s., Czech Republic
4. 危機対応力向上のための効果的な演習手法  
Kuniyuki Tashiro<sup>1)</sup>
  - 1) Inter Risk Research Institute & Consulting, Inc.

Session: B-5

Date/Time: Oct 22 11:00 - 12:20

Room: Meeting Room 303-304

Theme: Case Studies

Convener: Kuniyuki TASHIRO

1. Mysticism and Magic The Role of Witchcraft in the Aftermath of Typhoon Morakot Bell  
Alissa Bell<sup>1)</sup>  
1) Florida State University, Center for Disaster Risk Policy, Emergency Management Academic Program
2. Structuring Preparedness and Response Efforts to Hazards in the United States  
J. Grisales<sup>1)</sup> and A.H. Casserleigh<sup>2)</sup>  
1) MPA Candidate, Reubin O'D Askew School of Public Administration and Policy, Florida State University  
2) Director, Emergency Management and Homeland Security Academic Program, Florida State University
3. Human Trafficking After Natural Disasters  
T. Shannon-Datar<sup>1)</sup>  
1) Program Coordinator, Center for Disaster Risk Policy, Florida State University
4. Reframing Critical Information Needs for Disaster Response  
C. Kelly<sup>1)</sup>  
1) Disaster Management Consultant

Session: B-7

Date/Time: Oct 22 15:00 - 16:20

Room: Meeting Room 303-304

Theme: Contingency Plan

Convener: Takahiro ONO

1. 災害情報を活用した防災計画  
Takahiro Ono<sup>1)</sup>  
1) Nagoya Institute of Technology
2. Comparative Analysis of Earthquake Emergency Response in China & Japan Based on Timeline  
DU Xiaoxia<sup>1)</sup>, ZHANG Jun<sup>2)</sup>, XU Jianhua<sup>2)</sup>, HE Zhuan<sup>2)</sup>, KIMURA Reo<sup>3)</sup>, HAYASHI Haruo<sup>4)</sup>, HOSOKAWA Masafumi<sup>5)</sup>, SAKURADA Yukihiisa<sup>6)</sup>  
1) Senior Engineer, National Earthquake Response Support Service CEA  
2) Engineer, National Earthquake Response Support Service CEA  
3) Associate Professor, School of Human Science and Environment, Hyogo University  
4) Professor, Disaster Prevention Research Institute, Kyoto University  
5) Group leader and Senior Researcher, Earthquake and National Disaster Laboratory, National Research Institute of Fire and Disaster  
6) Researcher, Disaster Prevention Research Institute, Kyoto University

3. Research on Visualization of Earthquake Emergency Response in China Based on the Compilation and Application of Earthquake Emergency Response Timeline

CHEN Siyu<sup>1)</sup>, KIMURA Reo<sup>2)</sup>, HAYASHI Haruo<sup>3)</sup>, HOSOKAWA Masafumi<sup>4)</sup>, SAKURADA Yukihiisa<sup>5)</sup>

1) National Earthquake Response Support Service

2) Associate Professor, School of Human Science and Environment, Hyogo University

3) Professor, Disaster Prevention Research Institute, Kyoto University

4) Group leader and Senior Researcher, Earthquake and National Disaster Laboratory, National Research Institute of Fire and Disaster

5) Researcher, Disaster Prevention Research Institute, Kyoto University

4. Timeliness objective function construction method of pump scheduling in mine water disaster

Jialian Li<sup>1)</sup>, Hong Chi<sup>1)</sup>, Biao Shi<sup>1)</sup>

1) Research Center of Overall Planning, Safety and Security Management, Institute of Policy and Management, Chinese Academy of Sciences

Session: B-10

Date/Time: Oct 23 09:30 - 10:50

Room: Meeting Room 303-304

Theme: Meteorological Disasters

Convener: MARUYAMA

1. Local People Responses to Flood Disasters in Flood Prone Areas of Northeast Bangladesh

山下 直樹<sup>1)</sup>, 大本 照憲<sup>2)</sup>

1) 副参事, 日本工営(株), コンサルタント海外事業本部水資源事業部 水資源エネルギー部

2) 教授, 工博, 熊本大学大学院自然科学研究科

2. Current Relocation Practices Targeting Disaster Prone Communities in Developing Countries: Case Study San Francisco

J. Cuadra<sup>1)</sup>, J. Dilling<sup>2)</sup>, R. Brower<sup>3)</sup> and M. Samples<sup>4)</sup>

1) PhD Student, Dept. of Urban and Regional Planning, Florida State University

2) Professor, Homeland Security and Emergency Management Program, Florida State University

3) Professor, Askew School of Public Administration, Florida State University

4) PhD student, College of Education, Florida State University

3. Understanding flood risks for better planning and resilience: novel methods and models for Asia



Julien Oliver<sup>1)</sup>

1) DHI Water & Environment (S) Pte Ltd

4. Preparedness planning by using simulation - use case winter storm

P. Broas<sup>1)</sup>, M. Jähi<sup>1)</sup>, S. Kunttu<sup>1)</sup>, K.Piira<sup>1)</sup>, M.Räikkönen<sup>1)</sup>, J.Yliaho<sup>1)</sup>, J. Soininen<sup>2)</sup>, A. Kosonen<sup>3)</sup>, K. Rannat<sup>4)</sup>, K.Taveter<sup>4)</sup>, M.Meriste<sup>4)</sup>, K. Pilli-Sihvola<sup>5)</sup>

1) VTT Technical Research Centre of Finland

2) Emergency College Finland

3) Insta Ltd.

4) Tallinn Technical University

5) Finnish Meteorological Institute

Poster Session

Session: P-9

Date/Time: From Oct 21 09:30 To Oct 22 18:00

Core Time: Oct 22 17:40 - 18:00

Location: Foyer along Marine Hall

1. Virtual Operation Support Teams; Practical Implementation and Lessons Learned

T. Duffy<sup>1)</sup>, D. Merrick<sup>2)</sup> and J. Broder<sup>3)</sup>

1) Doctoral Researcher, Center of Disaster Risk Policy, Florida State University

2) Director, Center of Disaster Risk Policy, Florida State University

3) Director of IT, Center of Disaster Risk Policy, Florida State University

2. THE NATECH (NATURAL vs TECHNOLOGICAL) RISK CONCEPT: INDUSTRIAL PLANTS THREATENED BY BUSHFIRES, analyse on several reported cases and guidelines proposal

M. Dumas<sup>1)</sup>, G. Henschger<sup>2)</sup>, S. Lahaye<sup>3)</sup>, J.P Monet<sup>4)</sup>

1) Lieutenant-colonel, head of operational division, Bouches-du-Rhône Fire Department (BDRFD)

2) HSE manager, EP, TOTAL France

3) Captain, fire analyst of BDRFD

4) Lieutenant-colonel, BDRFD, CBRNE regional advisor

3. USE OF HELICOPTERS IN THE FRENCH FIRE SERVICE, IMPROVING RESCUE, MEDICAL EMERGENCY AND CRISIS MANAGEMENT

M. Dumas<sup>1)</sup>, P. Agopian<sup>2)</sup>, A. Fonters<sup>3)</sup>, J.P Monet<sup>4)</sup>

1) Lieutenant-colonel, head of operational division, Bouches-du-Rhône Fire Department (BDRFD)

2) Chief Medical doctor, BDRFD

3) Lieutenant-colonel, head of rescue team, BDRFD

4) Lieutenant-colonel, BDRFD, CBRNE regional advisor

4. Study on Stability of Artificial Pillar under Regenerated Mechanical Environment

Kang Zhao<sup>1)</sup>, Kui Zhao<sup>1)</sup>, Xiaodong Zhao<sup>1)</sup>

1) School of Architectural and Surveying Engineering, Jiangxi University of Science and Technology

5. Need and Importance of Effective Disaster Management Systems

Meen B. Poudyal Chhetri<sup>1)</sup>

1) President, Nepal Center for Disaster Management (NCDM)

6. バイアスと災害時の避難行動について

高橋 愛莉<sup>1)</sup>

1) 兵庫県立大学

7. 防災リテラシー向上のための Design Trend Press の開発と活用

奥本 彩加<sup>1)</sup>

1) 兵庫県立大学

8. 高校生の「生きる力」を育むための防災教育プログラムの開発

向江 竜生<sup>1)</sup>

1) 兵庫県立大学

9. Development of web-based tabletop earthquake emergency exercise system

ZHOU Bojia<sup>1)</sup>, ZHANG Xiaoyong<sup>2)</sup>, XU Jianhua<sup>3)</sup>, LAI Junyan<sup>3)</sup>, DU Xiaoxia<sup>4)</sup>, HOSOKAWA Masafumi<sup>5)</sup>, HAYASHI Haruo<sup>6)</sup>, KIMURA Reo<sup>7)</sup>, SAKURADA Yukihiisa<sup>8)</sup>

1) Senior Engineer, Dept. of Training, National Earthquake Response Support Service

2) Senior Engineer, Dept. of Information, National Earthquake Response Support Service

3) Engineer, Dept. of Technology, National Earthquake Response Support Service

4) Senior Engineer, Dept. of Technology, National Earthquake Response Support Service

5) Group leader and Senior Researcher, Earthquake and Natural Disaster Laboratory, National Research Institute of Fire and Disaster

6) Professor, Disaster Prevention Research Institute, Kyoto University

7) Associate Professor, School of Human Science and Environment, Hyogo University

8) Researcher, Disaster Prevention Research Institute, Kyoto University

10. The Impact of Flood Risks on Supply Chains: A Study Using a Discrete Event Simulation and Network Analysis

Masahiko Haraguchi<sup>1)</sup>

1) Ph.D. Candidate, Department of Earth and Environmental Engineering, Columbia University

11. Designing Safety Confirmation System on Smart-phones Cooperating with Messaging System for Lecture Information - A Case Study of Niigata University -

Kouki Abe<sup>1)</sup>, Munenari Inoguchi<sup>2)</sup>

1) Undergraduate Student, Faculty of Engineering, Niigata University

2) Assistant Professor, Research Institute for Natural Hazard and Disaster Recovery, Niigata University

12. Fundamental Analysis of Information Format Structure Handled in Emergency Operation Center - A Case Study of Evacuation Management in Niigata Prefecture -

Tom Sugahara<sup>1)</sup>, Munenari Inoguchi<sup>2)</sup>, Keiko Tamura<sup>3)</sup>

1) Undergraduate Student, Faculty of Engineering, Niigata University

2) Assistant Professor, Research Institute for Natural Hazard and Disaster Recovery, Niigata University

3) Professor, Risk Management Office, Niigata University