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<th>Time</th>
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<tr>
<td>October 21 (Tue)</td>
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<tr>
<td>09:30-11:00</td>
<td>C-1</td>
<td>TIEMS 2014 in Niigata</td>
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<td>Opening Ceremony</td>
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<td>Keynote Speech</td>
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<tr>
<td>11:10-12:30</td>
<td>A-2</td>
<td>Disaster Information (FUJINAWA)</td>
<td>B-2</td>
<td>Risk Management (OHARA)</td>
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<tr>
<td>14:00-17:00</td>
<td>C-3</td>
<td>Open Forum</td>
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<td>October 22 (Wed)</td>
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<tr>
<td>09:30-10:50</td>
<td>A-4</td>
<td>Business Continuity Management / Disaster</td>
<td>B-4</td>
<td>Disaster Drill (SAYANAGI)</td>
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<td>Recovery (WATANABE)</td>
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<td>11:00-12:20</td>
<td>A-5</td>
<td>Education / Participatory Approach (MAKI)</td>
<td>B-5</td>
<td>Case Studies (TASHIRO)</td>
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<td>14:00-16:30</td>
<td>S-6</td>
<td>Special Session Collaborated with MEXT</td>
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<td>Special Project on “Reducing Urban Mega</td>
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<td>Earthquake Disasters”</td>
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<td>16:40-17:40</td>
<td>C-8</td>
<td>Annual Meeting of TIEMS</td>
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<td>17:40-18:00</td>
<td>P-9</td>
<td>Poster Session ・ Core Time ・</td>
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<td>09:30-11:10</td>
<td>A-10</td>
<td>Geo Information Technology / Others</td>
<td>B-10</td>
<td>Meteorological Disasters (MARUYAMA)</td>
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<td>(MAKI)</td>
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<td>11:20-12:30</td>
<td>C-11</td>
<td>TIEMS 2014 in Niigata</td>
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<td>Closing Ceremony</td>
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[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
Opening Ceremony

Session: C-1
Date/Time: Oct 21 09:30-11:00
Room: Marine Hall (4th floor)

Welcome Address by TIEMS Japan Chapter
Keynote Speech1: K. Harald Drager, TIEMS President
Keynote Speech2: Guosheng Qu, TIEMS Vice President

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 (4th floor)
Theme: Disaster Information
Convener: Yukio FUJINAWA, K. Harald Drager

1. The resilient Smart Community Against Unprecedented Disasters
   Y. Fujinawa1) and Y. Noda2)
   1) Chief Technical Adviser, MierukaBosai Inc., Tokyo, Japan
   2) Researcher Terra-Technica Inc, Tokyo, Japan

2. Using Technology To Aid Business Continuity Pre and Post Disaster
   T. Duffy1) and T. Shannon2)
   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 Lee1)
   1) School of Business, Dongguk University
4. Utilization of Small Unmanned Aerial Systems in Rural and Developing Area Disaster Management
   D. Merrick¹, J. Broder², and R. McDaniel³
   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, Young-Jai Lee

1. Limitation of individual BCMs (Business Continuity Management) and importance of community-based BCM in wide-area disasters
   Kenji Watanabe¹
   1) Professor, Graduate School of Social Engineering, Nagoya Institute of Technology

2. Comparison of Life Recovery Processes between the 2004 Mid-Niigata Earthquake and the 2007 Chuetsu-Oki Earthquake: Results of Random Sampled Questionnaire Survey using "Life Recovery Calendar Method" and GIS-based Spatiotemporal Analysis
   Reo Kimura¹, Munenari Inoguchi², Keiko Tamura³, Haruo Hayashi⁴
   1) Associate Professor, School of Human Science and Environment, University of Hyogo, Hyogo, Japan
   2) Assistant Professor, Research Institute for Natural Hazards and Disaster Recovery, Niigata University, Niigata, Japan
   3) Professor, Risk Management Office, Niigata University, Niigata, Japan
   4) Professor, Disaster Prevention Research Institute, Kyoto University, Kyoto, Japan

3. AREA BUSINESS CONTINUITY MANAGEMENT, A NEW APPROACH FOR SUSTAINING LOCAL ECONOMY
   H. Baba¹, T. Watanabe², K. Miyata³ and H. Matsumoto⁴
   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
   Masahiko Haraguchi
   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, Jean-Paul Monet

1. Participatory Governance in Emergency Response
   K. Harald Drager, Dr. Kailash Gupta, Dr. James C. Hagen, and Dr. Thomas V. Robertson
   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 and Reo KIMURA
   1) Graduated Student, Human Science and Environment, Hyogo University
   2) Associate Professor, Human Science and Environment, Hyogo University

3. Development of web-based tabletop earthquake emergency exercise system
   ZHOU Bojia, ZHANG Xiaoyong, XU Jianhua, LAI Junyan, DU Xiaoxia, HOSOKAWA Masafumi, HAYASHI Haruo, KIMURA Reo, SAKURADA Yukihisa
   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
4. Teaching Materials for Typhoon Disaster Management in Uki-city
   Takashi MARUYAMA\textsuperscript{1)} and Sota NAKAJO\textsuperscript{1)}
   1) Professor, Disaster Prevention Research Institute, Kyoto University

Session: A-10
Date/Time: Oct 23 09:30 - 11:10
Room: Marine Hall (4th floor)
Theme: Geo Information Technology / Others
Convener: Norio MAKI, Jaroslav Pejcoch

1. Integration of GIS with Remote Sensing and GPS for Disaster Mitigation
   Sikander Nawaz Khan\textsuperscript{1)}
   1) Student, Information Technology, University of Gujrat, Gujrat, Pakistan

2. Significance of Space Technologies for Multi-hazard Disaster Risks
   Meen B. Poudyal Chhetri\textsuperscript{1)}
   1) President, Nepal Center for Disaster Management (NCDM)

3. DO ROBOTS CONSTITUTE A HELP IN CRISIS MANAGEMENT?
   E. Rodriguez\textsuperscript{1)}, S. Mozziconacci\textsuperscript{2)}, L. Verneuil\textsuperscript{3)}, J.P. Monet\textsuperscript{4)}
   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\textsuperscript{1)}, Kui Zhao\textsuperscript{1)}, Xiaodong Zhao\textsuperscript{1)}
   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, Guosheng Qu

1. CURRENT ISSUES REGARDING THE INCIDENT COMMAND SYSTEM IN THE PHILIPPINES
<table>
<thead>
<tr>
<th>Session: B-4</th>
<th>Date/Time: Oct 22  09:30 - 10:50</th>
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<tbody>
<tr>
<td>Room: Meeting Room 303-304</td>
<td>Theme: Disaster Drill</td>
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<tr>
<td>Convener: Yasutake SAYANAGI, Kelly</td>
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1. Study for the Practical Way to implement the BCP Street-Wide Exercise in the Banking Industry
   Yasutake Sayanagi\(^1\), Kenji Watanabe\(^2\)
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 Junyan1), BAI Pengfei1), DING Lu1), ZHANG Yuan1), HAYASHI Haruo2), KIMURA Reo3), HOSOKAWA Masafumi4) and SAKURADA Yukihisa5)
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 Exercise - Prague, the Capital of the Czech Republic
Tomas Hudecek1), Josef Juranek2), Jaroslav Pejco3)
1) Mayor, City of Prague, Prague, Czech Republic
2) Director of Department Security and Crisis Management, Prague, Czech Republic
3) Chairman of Board, T-SONT a.s., Prague, Czech Republic

Kuniyuki Tashiro1)
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, Thomas Robert

1. Mysticism and Magic The Role of Witchcraft in the Aftermath of Typhoon Morakot Bell
Alissa Bell1)
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. Grisales1) and A.H. Casserleigh2)
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
   1) Program Coordinator, Center for Disaster Risk Policy, Florida State University

4. Reframing Critical Information Needs for Disaster Response  
   C. Kelly
   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, (International Co-chair)

1. Enhance Disaster Risk Reduction by Use of Disaster Information  
   Takahiro Ono
   1) Nagoya Institute of Technology

2. Comparative Analysis of Earthquake Emergency Response in China & Japan Based on Timeline  
   DU Xiaoxia, ZHANG Jun, XU Jianhua, HE Zhuan, KIMURA Reo, HAYASHI Haruo, HOSOKAWA Masafumi, SAKURADA Yukihisa  
   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, KIMURA Reo, HAYASHI Haruo, HOSOKAWA Masafumi, SAKURADA Yukihisa
   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. Timeliness objective function construction method of pump scheduling in mine water disaster
   Jialian Li\textsuperscript{1)}, Hong Chi\textsuperscript{1)}, Biao Shi\textsuperscript{1)}
   1) Research Center of Overall Planning, Safety and Security Management, Institute of Policy and Management, Chinese Academy of Sciences

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<th>Session:</th>
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<td>Date/Time:</td>
<td>Oct 23 09:30 - 10:50</td>
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<td>Room:</td>
<td>Meeting Room 303-304</td>
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<tr>
<td>Theme:</td>
<td>Meteorological Disasters</td>
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<tr>
<td>Convener:</td>
<td>MARUYAMA, M. Dumas</td>
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1. Local People Responses to Flood Disasters in Flood Prone Areas of Northeast Bangladesh
   N. Yamashita\textsuperscript{1)} and T. Ohmoto\textsuperscript{2)}
   1) Engineer, Water Resources & Energy Dept., Nippon Koei Co., Ltd., Japan
   2) Professor, Graduate School of Science and Technology, Kumamoto University, Japan

2. Current Relocation Practices Targeting Disaster Prone Communities in Developing Countries: Case Study San Francisco Libre, Nicaragua
   J. Cuadra\textsuperscript{1)}, J. Dilling\textsuperscript{2)}, R. Brower\textsuperscript{3)} and M. Samples\textsuperscript{4)}
   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\textsuperscript{1)}
   1) DHI Water & Environment (S) Pte Ltd

4. Preparedness planning by using simulation - use case winter storm
   P. Broas\textsuperscript{1)}, M. Jähi\textsuperscript{1)}, S. Kunttu\textsuperscript{1)}, K.Piira\textsuperscript{1)}, M.Räikkönen\textsuperscript{1)}, J.Yliaho\textsuperscript{1)}, J. Soininen\textsuperscript{2)}, A. Kosonen\textsuperscript{3)}, K. Rannat\textsuperscript{4)}, K.Taveter\textsuperscript{4)}, M.Meriste\textsuperscript{4)}, K. Pilli-Sihvola\textsuperscript{5)}
   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\textsuperscript{1)}, D. Merrick\textsuperscript{2)} and J. Broder\textsuperscript{3)}
   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\textsuperscript{1)}, G. Helschger\textsuperscript{2)}, S. Lahaye\textsuperscript{3)}, J.P Monet\textsuperscript{4)}
   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\textsuperscript{1)}, P. Agopian\textsuperscript{2)}, A. Fonters\textsuperscript{3)}, J.P Monet\textsuperscript{4)}
   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
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<th><strong>Session</strong></th>
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<th><strong>Authors</strong></th>
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| 4.         | Study on Stability of Artificial Pillar under Regenerated Mechanical Environment | Kang Zhao\(^1\), Kui Zhao\(^1\), Xiaodong Zhao\(^1\)  
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\(^1\)  
1) President, Nepal Center for Disaster Management (NCDM) |
| 6.         | Clarifying effect of biases on evacuation behavior in disaster | Airi Takahashi\(^1\), Kazuhiro Higuchi, Miki Matsumoto, Chiharu Miyake, Yukari Moriyama, Akane Miura, Kota Tomoyasu and Reo Kimura\(^1\)  
1) School of Human Science and Environment, Hyogo University |
| 7.         | The Proposal of the Approach to Enhance Disaster Management Literacy Arranging Knowledge and Lesson of Disaster Management: Utilizing "Design Trend Press(DTP)" | Ayaka OKUMOTO\(^2\), Haruka TAKASAKI\(^3\), Rei TAMADA\(^3\), Syoko YASUOKA\(^3\), Kota TOMOYASU\(^3\) and Reo KIMURA\(^3\)  
1) Undergraduate student, School of Human Science and Environment, University of Hyogo, Japan  
2) Graduate student, Graduate School of Human Science and Environment, University of Hyogo, Hyogo, Japan  
3) Associate Professor, School of Human Science and Environment, University of Hyogo, Hyogo, Japan |
| 8.         | Development of education program for enhancement of disaster management competency in high school: "Problem-solution Enumeration Method" to image and manage disaster | Ryusei MUKAKE\(^1\), Ryo TAMURA\(^1\), Kota TOMOYASU\(^2\) and Reo KIMURA\(^3\)  
1) Undergraduate student, School of Human Science and Environment, University of Hyogo, Japan  
2) Graduate student, Graduate School of Human Science and Environment, University of Hyogo, Hyogo, Japan  
3) Associate Professor, School of Human Science and Environment, University of Hyogo, Hyogo, Japan |
| 9.         | The Impact of Flood Risks on Supply Chains: A Study Using a Discrete Event Simulation and Network Analysis | Masahiko Haraguchi\(^1\)  
1) |
10. Designing Safety Confirmation System on Smart-phones Cooperating with Messaging System for Lecture Information - A Case Study of Niigata University
   - Kouki Abe\(^1\), Munenari Inoguchi\(^2\)
     1) Undergraduate Student, Faculty of Engineering, Niigata University
     2) Assistant Professor, Research Institute for Natural Hazard and Disaster Recovery, Niigata University

   - Tom Sugahara\(^1\), Munenari Inoguchi\(^2\), Keiko Tamura\(^3\)
     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