



Second International Conference on Integrated Disaster Risk Management

Reframing Disasters and Reflecting on Risk Governance Deficits

University of Southern California
Los Angeles, California
July 14 -16, 2011



Welcome!

8 July, 2011

Dear Participants,

As President of the International Society for Integrated Disaster Risk Management, it is my great pleasure to welcome you all to the 2nd Annual IDRiM Conference, hosted by the University of Southern California (USC), Los Angeles, USA. Our Society was first established in Kyoto, October 2009, when the 9th IIASA-DPRI IDRiM Forum was held. The 1st IDRiM Conference was hosted in September, 2010, by the University of Natural Resources and Life Sciences, Vienna. That city was a very special place for the newly launched Society because the first initiative was taken in 2001 by the International Institute for Applied Systems Analysis (IIASA), Austria, in collaboration with Disaster Prevention Research Institute (DPRI) of Kyoto University to meet together to address the need for a scientific initiative to promote integrated disaster risk management. As meaningful and epoch-making as last year, we are now meeting together at USC, in Los Angeles, California. This is an important step in strengthening our IDRiM Society by establishing a solid base on the North American continent.

This year's Conference theme, "Reframing Disasters and Reflecting on Risk Governance Deficits," arises from the analysis of recent events including the Haiti and Chile earthquakes, the volcanic ash disruption to European air space, and the BP Deepwater Horizon oil spill in the Gulf of Mexico. Furthermore, the devastating Tohoku earthquake and tsunami in Japan on 11 March 2011, which triggered the on-going accident at the Fukushima Dai-ichi nuclear power plant, have shown that, even in a country with some of the best earthquake and tsunami construction and disaster preparedness and mitigation systems in place, there are gaps in risk management. These events have highlighted the need to rethink the way we manage disaster risks in both the public and private sectors. They urge us to upgrade our efforts and to move integrated and implementable approaches for disaster reduction into the mainstream.

Thank you very much for your participation, and I look forward to seeing you at the Conference.

Norio Okada

President of IDRiM Society and
Professor, DPRI, Kyoto University

COMMITTEES AND ACKNOWLEDGEMENTS

Sponsors

University of Southern California (USC), Los Angeles, California, U.S.A
USC School of Policy, Planning, and Development (SPPD)
USC Center for Risk and Economic Analysis of Terrorism Events (CREATE)
Kyoto University, Disaster Prevention Research Institute (DPRI), Kyoto, Japan
The Japan Foundation, Center for Global Partnership
International Institute for Applied Systems Analysis (IIASA), Laxenburg, Austria

Steering Committee

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Genevieve Giuliano, School of Policy, Planning and Development, University of Southern California, U.S.A.
Aniello Amendola, International Institute for Applied Systems Analysis (IIASA), Austria
Mohsen Ashtiany, International Institute of Earthquake Engineering and Seismology (IIEES)
Djillali Benouar, University of Bab Ezzouar, Algeria
Ana Maria Cruz Naranjo, Disaster Prevention Research Institute (DPRI), Kyoto University, Japan
Adrian Gheorghe, Old Dominion University, U.S.A.
Elisabeth Krausmann, Joint Research Center (JRC), European Commission (EC), Italy
Reinhard Mechler, International Institute for Applied Systems Analysis (IIASA), Austria
Hans-Peter Nachtnebel, University of Natural Resources and Applied Life Sciences, Austria
Norio Okada, Disaster Prevention Research Institute (DPRI), Kyoto University, Japan
Peijun Shi, Beijing Normal University, China
Hirokazu Tatano, Disaster Prevention Research Institute (DPRI), Kyoto University, Japan

Special Thanks

Keiko Inoue	Christine Tartaglia	Jie Zhou
Muneta Yokomatsu	Kelly Gribben	Eric Gilbert
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INTERNATIONAL CONFERENCE ON
INTERGRATED DISASTER RISK MANAGEMENT

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Conference Events

July 14th Welcome Reception

There will be a Welcome Reception for Conference attendees on July 14th. The reception will begin at 7:00 PM in the Millennium Biltmore's Gold Room.

July 15th Banquet

Conference attendees are invited to a banquet on July 15th at the University of Southern California's Galen Center. The event will be held in the Founder's Club (see Floor Plan) and is scheduled to begin at 7:00 PM.

July 16th Poster Session

A Poster Session will be held in the Grand Foyer of the Davidson Conference Center on Saturday, July 16th. Posters will be on display.

PROGRAM SCHEMATIC

Biltmore	Davidson	Galen
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Time	THURSDAY 7/14	FRIDAY 7/15	SATURDAY 7/16		
7:30 - 8:00 AM		Shuttle Departs from Biltmore to USC (7:30 AM)	Shuttle Departs from Biltmore to USC (7:45 AM)		
8:00 - 8:30 AM		Welcoming Remarks (8:00 AM)	Keynote Address (8:15 - 9:15 AM)		
8:30 - 9:00 AM		Keynote Address (8:15 - 9:15 AM)			
9:00 - 9:30 AM		Plenary Session (9:15 - 10:45 AM)	Plenary Session (9:15 - 10:45 AM)		
9:30 - 10:30 AM		Break (10:45 - 11 AM)	Break (10:45 - 11 AM)		
10:30 - 11:00 AM		Parallel Session (11 - 12:30 PM)	Parallel Session (11 - 12:30 PM)		
11:00 - 11:30 AM		Lunch & Speaker (12:30 - 2 PM)	Lunch & Speaker (12:30 - 2 PM)		
12:00 - 12:30 PM		Plenary Session (2:15 - 3:45 PM)	Plenary Session (2:15 - 3:45 PM)		
12:30 - 1:30 PM		Break (3:45 - 4 PM)	Break (3:45 - 4 PM)		
1:30 - 2:00 PM		Parallel Session (4:00 - 5:30 PM)	Parallel Session (4:00 - 5:30 PM)	Poster Session (3:45 - 5:30 PM)	
2:00 - 3:00 PM		IDRiM Society Business Meeting (5:30 to 7 PM)	Free Time: Shuttle Available to & from Biltmore		
3:00 - 3:30 PM			General Discussion		
3:30 - 4:00 PM			Closing Session		
4:00 - 5:00 PM		Reception: Welcome at 7 PM and Speaker at 8 PM	Banquet (7:00 to 10 PM)		
5:00 - 5:30 PM					
5:30 - 6:00 PM					
6:00 - 6:30 PM					
6:30 - 7:00 PM					
7:00 - 8:00 PM					
8:00 - 8:30 PM					
8:30 - 9:30 PM					
9:30 - 10:00 PM					

SCHEDULED TRANSPORTATION

Transportation will be provided by Metropolitan Shuttle at the following times:

July 15th
From Biltmore Hotel to USC Campus
Boarding: 7:15 AM Departing: 7:30 AM
From USC Campus to Biltmore Hotel
Boarding: 5:30 PM Departing: 5:45 PM
From Biltmore Hotel to USC Campus (Galen Center)
Boarding: 6:30 PM Departing: 6:45 PM
From USC Campus (Galen Center) to Biltmore Hotel
Boarding: 9:45 PM Departing: 10:00 PM

July 16th
From Biltmore Hotel to USC Campus
Boarding: 7:30 AM Departing: 7:45 AM
From USC Campus to Biltmore Hotel
Boarding: 6:30 PM Departing: 6:45 PM

Millennium Biltmore: The shuttle will pick up attendees between 5th Street and Grand Avenue. This will also be the same location for drop offs.

USC Campus: Attendees will be picked up and dropped off at the Davidson Conference Center, on the corner of Figueroa Street and Jefferson Boulevard.

OTHER TRANSPORTATION OPTIONS

Public Transportation

WEEKDAYS: DASH DOWNTOWN ROUTE F - Financial District, Exposition Park, USC: Every 10 minutes from 6:30 am - 6:30 pm

WEEKEND: DASH DOWNTOWN ROUTE F – Financial District, Exposition Park, USC: Every 20 minutes from 10:00 am - 5:00 pm

Times that buses stop at these points after each hour.

*Leaves Beaudry between 3rd & 4th	*Flower at 7th	Figueroa at Washington	Vermont at Exposition	Jefferson at Hoover	Figueroa at 7th	Arrives Beaudry between 3rd & 4th
:00	:04	:15	:18	:22	:28	:35
:20	:24	:35	:38	:42	:48	:55
:40	:44	:55	:58	:02	:08	:15

* First buses leave these points at 10:00 AM. Last buses leave these points at 5:00 PM.

Please visit <http://www.ladottransit.com/dash/routes/downtown/downtown.php#schedule> for more information

Taxi Service

United Independent Taxi
1-800-411-0303

Bell Cab
1-888-235-5222

Yellow Cab
1-800-200-1085

Checker Cab
1-800-300-5007

Independent Taxi
1-800-521-8294

Self Parking Instructions

Enter USC from Gate #3, off Figueroa Street. Please check in with the Gate Guard and he/she will direct you to park in Parking Structure X (PSX). The parking fee is \$8; mention the IDRiM Conference held at Davidson for a parking pass each day. Parking is limited so carpooling and taxis from the downtown hotels (\$10-12) are encouraged.

Directions to Davidson Conference Center from Parking Structure X:

Exit Parking Structure X and walk towards the Gate #3 entrance. From the gate you will make a left and walk north a short distance on Figueroa and the Davidson Conference Center will be on your left-hand side (corner of Figueroa and Jefferson).

On-Line Directions to USC from various locations: www.usc.edu/about/visit/upc/driving_directions/main_entrance.html

IDRIM CONFERENCE

July 14-16, 2011

FINAL PROGRAM

<u>July 14</u>	
<u>Biltmore Hotel</u>	
IDRiM Society Business Meeting (all members invited):	5:30 to 7pm Heinsbergen Room
Reception:	7 to 10 pm Gold Room
Welcoming Remarks: Norio Okada (Disaster Prevention Research Institute, Kyoto University) and Adam Rose (School of Policy, Planning, and Development, University of Southern California)	7 pm
Speaker: James Featherstone (Director, City of Los Angeles Emergency Management Department)	8 pm

<u>July 15</u>	
<u>USC Davidson Conference Center</u>	
Welcoming Remarks: Gen Giuliano (USC) and Hirokazu Tatano (DPRI)	8 to 8:15 am Embassy Room
Keynote Address: George Apostolakis ,(Commissioner, U.S. Nuclear Regulatory Commission) Chair: Aniello Amendola (IIASA)	8:15 to 9:15 am Embassy Room
A. Plenary: <i>Implications of the Tohoku EQ & Tsunami, Part I</i> Organizer/Chair: Norio Okada (DPRI), Charles Scawthorn (Kyoto University), and Hirokazu Tatano (DPRI) a. <i>The March 11th, 2011 Eastern Japan Earthquake and Tsunami Disaster: Preliminary Overview and Implications for IDRiM</i> Norio Okada (DPRI) b. <i>Lifelines Aspects of the Eastern Japan Earthquake and Tsunami</i> Charles Scawthorn (Kyoto University) c. <i>Criticality, Complementarily and Cascading Effects: Economic Implications of the Eastern Japan Great Earthquake</i> Hirokazu Tatano (DPRI) and Yoshio Kajitani (DPRI) and Muneta Yokomatsu (DPRI) d. <i>Regulatory Implications for Nuclear Power in the United States</i> George Apostolakis (U.S. Nuclear Regulatory Commission)	9:15 to 10:45 am Embassy Room

Break	10:45 to 11 am
Parallel Sessions:	11 to 12:30 pm
<p>1. <i>Natech Accidents: Implications for IDRiM and Risk Governance</i> Organizer/Chair: Ana Maria Cruz (DPRI) and Elisabeth Krausmann (Joint Research Centre, European Commission)</p> <p>a. <i>The 11 March, 2011, Tohoku Earthquake and Tsunami: Impact on the Chemical Industry</i> Elisabeth Krausmann (JRC) and Ana Maria Cruz (DPRI)</p> <p>b. <i>Estimation of Potential Amounts of Disaster Debris Generated by the 2011 off Pacific Coast of Tohoku Earthquake and Tsunami Disaster</i> Nagahisa Hirayama (Kyoto University) Y. Okumura (Disaster Reduction and Human Renovation Institution) and Y. Kawata (Kansai University)</p> <p>c. <i>After Fukushima Daiichi: Disaster Management Themes in Nuclear Power Plant Emergencies</i> M. Jude Egan (Louisiana State University & UCSD)</p> <p>d. <i>Technical Rule on Installation Safety: "Precipitation and Floods" – Regulating Natech Risks</i> Roland Fendler (German Federal Environment Agency)</p>	Board Room
<p>2. <i>Social Vulnerability: A Multifaceted and Interdisciplinary Concept – Definitions, Needs and Recent Examples of Geospatial Applications</i> Organizer/Chair: Christoph Aubrecht (USC) and Andrew Curtis (USC)</p> <p>a. <i>Social Vulnerability: Different Scales, Different Dimensions</i> Christoph Aubrecht (AIT Austrian Institute of Technology GmbH) Sergio Freire (FCSH, New University of Lisbon), Chris Elvidge (National Oceanic and Atmospheric Administration), Alex De Sherbinin (Columbia University), Stephanie Wegscheider (German Aerospace Center) and Klaus Steinnocher (AIT Austrian Institute of Technology GmbH)</p> <p>b. <i>Integration of GIS Tools and Theory in Red Cross Disaster Planning and Response in Southern California</i> Corey Eide (American Red Cross Los Angeles Region) and Evan Lue (USC)</p> <p>c. <i>Health Vulnerability and Hazard Assessments</i> Andrew Curtis (USC)</p> <p>d. <i>Playing It Safe: Assessing Cumulative Impact and Social Vulnerability Through an Environmental Justice Screening Method in the South Coast Air Basin, California</i> James L. Sadd (Occidental College), Manuel Pastor (USC), Rachel Morello-Frosch (University of California, Berkeley), Justin Scoggins (USC) and Bill Jesdale (University of California, Berkeley).</p>	Figueroa Room

<p>e. <i>Evidence to Support and Refute Women as Socially Vulnerable: Considerations for Recovery Planning</i> Jacqueline W. Mills (California State University, Long Beach)</p>	
<p>3. <i>Terrorism Risk</i> Chair: Erwann Michel-Kerjan (University of Pennsylvania)</p> <p>a. <i>Risk and Economic Analysis of Disruptions to the Electric Power Grid</i> Samrat Chatterjee (USC) and Daniel Salazar (USC)</p> <p>b. <i>Dynamics of Affect, Threat Beliefs, Perceived Risk and Intended Avoidance Behavior: Scenario Simulation of an Escalating Catastrophic Biological Disaster</i> Richard John (USC), Heather Rosoff (USC) and William Burns(USC)</p> <p>c. <i>Comparative Risk Assessment in Homeland Security</i> Henry H. Willis (RAND) and Russell Lundberg (RAND)</p> <p>d. <i>Anthrax Outbreak in Downtown Seattle: A Spatial and Longitudinal Assessment of Terrorism’s Impact on Real Estate Prices</i> Noah Dormady (USC) and Thomas Szelazek (USC)</p>	<p>Cardinal & Gold Room</p>
<p>4. <i>Future and Limitations of Catastrophe Models</i> Organizer/Chair: Keith Porter (University of Colorado at Boulder and SPA Risk LLC)</p> <p>a. <i>The Scac Cybershake Project: A Computational Platform For Full Waveform Seismic Hazard Analysis</i> Robert Graves (US Geological Survey), Scott Callaghan (Southern California Earthquake Center), Thomas Jordan (Southern California Earthquake Center), Philip Maechling (Southern California Earthquake Center) et al.</p> <p>b. <i>Development and Limitations of Next-Generation Performance-Based Earthquake Engineering in Catastrophe Risk Models</i> Keith Porter (University of Colorado at Boulder and SPA Risk LLC)</p> <p>c. <i>User-Driven Model Adaptation in the USGS Multihazards Demonstration Project</i> Lucile Jones (U.S. Geological Survey) and Keith Porter (University of Colorado)</p> <p>d. <i>What We Know about Demand Surge (and What We Don’t)</i> Anna Olsen (U.S. Geological Survey)</p> <p>e. <i>Earthquake Insurance Risk Index Evaluation for Iranian Buildings</i> Mohsen Ghafory-Ashtiany (International Institute of Earthquake Engineering and Seismology) and Kiarash Nasserasadi (Zanjan University)</p>	<p>Alumni Room</p>
<p>Lunch Speaker: Erwann Michel-Kerjan (The Wharton School, University of Pennsylvania) Chair: Adam Rose (USC)</p>	<p>12:30-2 pm</p>

<p>B. Plenary: <i>Post Disaster Recovery</i> Organizer/Chair: Stephanie Chang (University of British Columbia)</p> <p>a. <i>Early Recovery Issues in Christchurch, New Zealand</i> Mary Comerio (University of California, Berkeley)</p> <p>b. <i>Small Community Strategies for Post- Disaster Recovery after the Wenchuan Earthquake</i> Ana Maria Cruz (DPRI), Miranda Dandoulaki , Antonio Pomonis, Sever Georgescu, Baofeng Di, and Nanshan Ai</p> <p>c. <i>Measuring Community Recovery in Post-Hurricane Florida, USA</i> Stephanie Chang (UBC) and Marleen De Ruiter (UBC)</p> <p>d. <i>Surveys of Post- Disaster Business Recovery in Japan</i> Yoshio Kajitani (DPRI), Hirokazu Tatano (DPRI), Kazuyoshi Nakano (Central Research Institute of Electric Power Industry) and Nario Yasuda (DPRI)</p> <p>e. <i>Long-Run Effects of Disasters: Structural Analysis</i> Yasuhide Okuyama (University of Kitakyushu)</p>	2:15 to 3:45 pm Embassy Room
Break	3:45 to 4:00 pm
Parallel Sessions:	4:00 to 5:30 pm
<p>5. <i>Resilience as an Approach to Integrated Risk Management</i> Organizer: W. Michael Dunaway (DHS); Chair: Fynnwin Prager (USC)</p> <p>a. <i>Blind Bats, Black Swans and Red Motorcycles: Reducing the Risk of Integrated Risk Management</i> David H. McIntyre (ANSER Homeland Security Institute)</p> <p>b. <i>Making the Business Case for Resilience</i> Jeffrey A. Slotnick (SETRACON, Inc.)</p> <p>c. <i>Risk Communication: Some Things Never Change</i> Mark Pfeifle (S4, Inc.)</p> <p>d. <i>Resilience to Port Disruptions</i> Adam Rose (USC) and Dan Wei (USC)</p>	Board Room
<p>6. <i>Risk Communication and Communicative Surveys</i> Organizer/Chair: Norio Okada (DPRI) Commentator: Linda Bourque (UCLA) and Akiko Sato (UCLA)</p> <p>a. <i>Exploring “Communicative Surveys” for Adaptive Field-based Disaster Research and Mutual Education</i> Norio Okada (DPRI) and Katsuya Yamori (DPRI)</p> <p>b. <i>Foot Massage Procedure: Close and Collaborative Listening to Disaster Survivors</i> Tomohide Atsumi (Osaka University)</p> <p>c. <i>Drawing Map Method for Tracing a Long Term Socio-Psycho Recovery</i></p>	Alumni Room

<p><i>from Disaster Damage</i> Takumi Miyamoto (Osaka University)</p>	
<p>7. <i>Economic Analysis of Disaster</i> Chair: Yasuhide Okuyama (University of Kitakyushu)</p> <p>a. <i>Economic Analysis of Recovery Process after the Great East Japan Earthquake</i> Muneta Yokomatsu (DPRI), Yoshio Kajitani (DPRI), Sayaka Nishioka (DPRI) and Hirokazu Tatano (DPRI)</p> <p>b. <i>Evaluation of Ambiguity Effect on Willingness to Pay for Earthquake Retrofit</i> Toshio Fujimi (Kumamoto University) and Hirokazu Tatano (DPRI)</p> <p>c. <i>Development of a Distributed Rainfall-Runoff/Flood-Inundation Simulation and an Economic Risk Assessment Model</i> Kenichiro Kobayashi (GCOE-ARS) and Kaoru Takara (DPRI)</p> <p>d. <i>On the Optimal Disaster Relief Budget of the Chinese Government: Perspective of Expected Opportunity Cost</i> Man Li (Beijing Normal University), Binxia Wu (BNU), Tao Ye (BNU) and Peijun Shi (BNU)</p>	<p>Cardinal & Gold Room</p>
<p>8. <i>Critical Infrastructure</i> Organizer/Chair: Adam Rose (USC)</p> <p>a. <i>A Community Systems Integrated Decision-making Approach for Reducing Natural Hazard Risk to Critical Infrastructure Systems</i> Vilas Majumdar (VSM Assoc.)</p> <p>b. <i>Quantitative Regional Risk/Resilience Analysis: The Nashville Resilience Project</i> Jerry Brashear (ASME Innovative Technologies Institute), Frederick Krimgold (Virginia Tech) and W. C. Louisell (Alion Science and Technology Corporation)</p> <p>c. <i>Common Root-Causes of Complex, Large-Scale Technological Systems Accidents: From the Three Mile Island of 1979 to the BP Deepwater Horizon 2010</i> Najmedin Meshkati (USC)</p> <p>d. <i>Integrated Disaster Risk Management in Water and Sanitation Services: From Theory to Practice</i> Hans-Peter Nachtnebel (University of Natural Resources and Life Sciences)</p>	<p>Figueroa Room</p>
<p>Dinner Speaker: Yoshiaki Kawata (Kansai University) Chair: Norio Okada (Kyoto University)</p>	<p>7:00 to 10 pm Galen Center Founder's Club</p>

July 16	
USC Davidson Conference Center	
Keynote Address: Detlof von Winterfeldt , International Institute for Applied Systems Analysis (IIASA) Chair: Reinhard Mechler (IIASA)	8:15 to 9:15 am Embassy Room
<p>C. Plenary: <i>Integrated Risk Governance – Integrated Research for Managing Complexity of Large-scale Disasters</i> Organizer/Chair: Peijun Shi (BNU)</p> <p>a. <i>Integrated Risk Governance: Modeling, Simulation and Visualization</i> Adrian Gheorghe (Old Dominion University)</p> <p>b. <i>Lessons Learned about Lessons Learned Disasters</i> Michael H. Glantz (University of Colorado) and S.H.M. Fakhruddin (Regional Integrated Multi-Hazard Early Warning System)</p> <p>c. <i>Global Maritime Critical Infrastructure: Risk Governance in the Straits of Malacca and Singapore</i> Michele Bristow (University of Waterloo), Ana Maria Cruz (DPRI), Liping Fang (UOW), T. F. Fwa (National University of Singapore), Keith W. Hipel (UOW), Yoshio Kajitani (DPRI), Wolfgang Kroeger (Swiss Federal Institute of Technology Zurich) and Norio Okada (DPRI)</p> <p>d. <i>Community Resilience through Effective Risk Governance: The Challenges for the Developing Countries</i> Muhammad Saidur Rahman (Bangladesh Disaster Preparedness Centre)</p>	9:15 to 10:45 am Embassy Room
Break	10:45 to 11 am
Parallel Sessions	11 to 12:30 pm
<p>9. <i>Economic Impacts</i> Organizer/Chair: Reinhard Mechler (IIASA)</p> <p>a. <i>Modeling the Economic Effects of Disaster Risk in Nepal</i> Reinhard Mechler (IIASA), Stefan Hochrainer (IIASA) and Kazuyoshi Nakano (DPRI)</p> <p>b. <i>Disaster Impact Analysis: Traffic Congestion, Inter-industry Relationship and Economic Loss</i> Satoshi Tsuchiya (Nagaoka University of Technology), Hirokazu Tatano (DPRI) and Hideki Takao (CFC)</p> <p>d. <i>The Economic Influence on the Civil Aviation by the Large-Scale</i></p>	Board Room

<p><i>Eruption -Assumption Scenario of the Volcanic Ash Cloud in Japan</i> Nario Yasuda (DPRI) and Yoshio Kajitani (DPRI)</p> <p>e. <i>Livelihood after Cyclone and Micro-Credit Interventions – Empirical Evidence from Coastal Society of Bangladesh</i> Bishawjit Mallick (Institute of Regional Science), Dipika Das (Institute of Regional Science) and Apurba Swatee Mahboob (Coastal Research Foundation)</p>	
<p>10. <i>Risk Assessment</i> Organizer/Chair: Djillali Benouar (Built Environment Research Laboratory)</p> <p>a. <i>A Day-Long Spatial-Temporal Distribution of Commuters on Weekdays in Kyoto-Osaka-Kobe Metropolitan Area</i> Jumpei Kimata (Kyoto University), Keisuke Himoto (DPRI), Tomoaki Nishino (Kobe University) and Takeyoshi Tanaka (DPRI)</p> <p>b. <i>Modeling of County-Level Extreme Typhoon Wind Speeds in the Yangtze River Delta, China</i> Wenfang Chen (Beijing Normal University), Stefan Hochrainer – Stigler (IIASA), Wei Xu (BNU), Peijun Shi (BNU) and Georg Pflug (IIASA)</p> <p>c. <i>Forin or Farout ? Exploring Multiple Drivers of Disaster Risks in Africa</i> Djillali Benouar (Built Environment Research Laboratory) and Jane Rovins (Integrated Research on Disaster Risk)</p> <p>d. <i>Global Human Settlement Information for Quantifying Physical Exposure</i> Daniele Ehrlich (Joint Research Centre), Martino Pesaresi (Joint Research Centre of Italy) and Elisabeth Kraussman (JRC of Italy)</p> <p>e. <i>A Probabilistic Approach of Assessing Rainstorm-Induced Flood Risk Based on Historical Records</i> Juan Du (Beijing Normal University), Ming Wang, Wei Xu (BNU) and Peijun Shi (BNU)</p>	Club Room
<p>11. <i>Assessing Disaster Impacts</i> Organizer/Chair: Adrian V. Gheorghe (Old Dominion University)</p> <p>a. <i>New Findings from the Casualty Caused by Catastrophic Earthquakes During the past 15 Years</i> Zhao Zhang (Beijing Normal University), Ming Xiang (BNU) and Peijun Shi (BNU)</p> <p>b. <i>Uncovering the 2010 Haiti Earthquake Death Toll</i> James E. Daniell (Karlsruhe Institute of Technology), Bijan Khazai (KIT) and Friedemann Wenzel (KIT)</p> <p>c. <i>Social, Psychological and Health Related Effects Due to Drought for Rural Populations: A Qualitative Field Study for Farmers in Iran</i> Nozar Monfared (Agricultural Research, Education and Extension Organization), Masoud Yazdanpanah (IIASA) and Stefan Hochrainer-Stigler (IIASA)</p> <p>d. <i>A Quantification Effort for Resilience of Essential Facilities against Hurricanes at Local Level</i> Berna Eren Tokgoz (Old Dominion University) and Adrian V.</p>	Cardinal & Gold Room

<p align="center">Gheorghe (ODU)</p>	
<p>12. <i>Disaster Communication and Governance</i> Organizers/Chairs: Akemi Takeoka Chatfield (University of Wollongong) and Mary Barrett (University of Wollongong)</p> <p>a. <i>Extreme Events – Switching from Daily Routine to Extreme Event Response Mode in Government Field Operations</i> Hans J. Scholl (University of Washington)</p> <p>b. <i>A Case Study Research on Trouble and Failure of Information Systems in an Emergency Period of Disasters</i> Michinori Hatayama (DPRI) and Megumi Ando (DPRI)</p> <p>c. <i>Disaster Communication Governance and Public Trust: The Case of TEPCO</i> Akemi Takeoka Chatfield (University of Wollongong) and Mary Barrett (University of Wollongong)</p>	<p>Alumni Room</p>
<p>13. <i>Disaster Management</i> Chair: William Petak (University of Southern California)</p> <p>a. <i>Local Leadership and Network: A Microfoundation of Effective Disaster Response in Rural China</i> Jian Cui (University of Pittsburgh)</p> <p>b. <i>Research on the Earthquake Disaster Management: A Case Study of the Yushu Earthquake</i> Fang Deng (Beijing Normal University) and Jifu Liu (BNU)</p> <p>c. <i>The Weaknesses of Centralized Drought Management: The Perception of Iranian Farmers</i> Masoud Yazdanpanah (IIASA) and Fereshteh Karbalaee (Tehran University)</p>	<p>Figueroa Room</p>
<p>14. <i>Young Scientists</i> Organizer/Chair: Muneta Yokomatsu (DPRI)</p> <p>a. <i>Designing a Toolbox for Adaptation to Climate Change and Disaster Risk Management</i> Keith Williges (IIASA) and Reinhard Mechler (IIASA)</p> <p>b. <i>Economic Effects of an Emergency Event: Structural Path Analysis within a SAM Framework</i> Wei Xie (Beijing Normal University), Ning Li (BNU), Ji-dong Wu (BNU), Jianwu He (Development Research Center of China) and Shantong Li (DRC)</p> <p>c. <i>Comparative Analysis of Watersheds Using a Geospatial-Based Vulnerability Assessment Approach to Climate Change in the Philippines</i> Cristino Tiburan Jr. (Kyoto University), Izuru Saizen (KU) and Shintaro Kobayashi (KU)</p> <p>d. <i>Local Adaptation for Livelihood Resilience in Albay, Philippines</i> Noralene M. Uy (Kyoto University)</p>	<p>California Room</p>

<p>Lunch Speaker: Kathleen Tierney (Natural Hazards Center, U. of Colorado) Chair: Ana Maria Cruz (DPRI)</p>	<p>12:30 to 2 pm</p>
<p>D. Plenary: <i>The March 11, 2011 Tohoku Japan Earthquake and Tsunami: Response and Recovery Issues for Japan and the International Community</i> Organizer/Chair: Tomohide Atsumi (Osaka University)</p> <p>a. <i>When the "Tower of Babel" Collapsed - Reflection on Response of the East Japan Earthquake through Back Up Support in Tohno, Iwate Prefecture</i> Takumi Miyamoto (Osaka University)</p> <p>b. <i>Tsunami Response in California and Lessons Learned from the Tohoku-oki Earthquake and Tsunami</i> James Goltz (California Institute of Technology/State of California)</p> <p>c. <i>Complex Disaster Recovery Following the 3/11 Tragedy from the Perspective of Interdependent Social Systems</i> Michael Stajura (UCLA)</p> <p>d. <i>Wired, Mired, Inspired: What Japan's 3/11 Tragedy Taught the Media, the Government and Relief Workers about 21st Century Communication</i> Julie Makinen (Los Angeles Times)</p>	<p>2:15 to 3:45 pm Embassy Room</p>
<p>Break</p>	<p>3:45 to 4 pm</p>
<p>Poster Session, Grand Foyer of the Davidson Conference Center</p>	<p>3:45 to 5:30 pm</p>
<p>Poster - <i>Young Scientists</i> Organizers: Muneta Yokomatsu (DPRI), Stefan Hochrainer (IIASA) and Wei Xu (Beijing Normal University)</p> <ul style="list-style-type: none"> • <i>Coping with the Effects of Storm Surges Generated by Cyclone Aila 2009: An Empirical Evidence from Southwest Coastal Region, Bangladesh</i> Bishawjit Mallick (Institute of Regional Science) • <i>A Satisfaction Survey of Crop Insurance in Iran: Adaptation of American Customer Satisfaction Index</i> Masoud Yazdanpanah (Shiraz University) • <i>Post-Disaster Recovery Measuring of the 1976 Tangshan Earthquake</i> Jidong Wu (Beijing Normal University) • <i>Relationships between Typhoon Tracks and Typhoon induced Landslide Hazard in the Yangtze River Delta Region, China</i> Jiabing Shuai (Beijing Normal University) • <i>Spatial Agent-Based Model for Cooperation of Search and Rescue Teams</i> Reza Nourjou (Kyoto University) • <i>Literature and Evidence Surveys of Essential Factors and Bottlenecks in Disaster Evacuation and Rescuing Processes: Application of Vitae System Model</i> 	

<p>Eishiro Higo (Kyoto University)</p> <ul style="list-style-type: none"> <i>Spatial Characteristics and GHG Emissions: An Index Number Decomposition Approach on CO2 Emissions in Electricity Generation over Space</i> <p>Jie Zhou (USC)</p>	
<p>Parallel Sessions</p>	<p>4 to 5:30 pm</p>
<p>15. <i>Mega-Cities</i> Organizer/Chair: Hilda Blanco (University of Southern California)</p> <ul style="list-style-type: none"> a. <i>Toward More Resilient Lifelines in Megacities</i> J.P. Bardet (USC) and Craig A. Davis (LADWP) b. <i>Anticipatory Recovery Planning: Towards More Sustainable Cities</i> Hilda Blanco (USC) c. <i>Infrastructure and Mega-City Disaster Resilience</i> Scott B. Miles (Western Washington University) d. <i>Reducing the Effects of Port Disruptions by using Service Network Optimization</i> Afshin Abadi (USC) and Petros Ioannou (USC) 	<p>Board Room</p>
<p>16. <i>Disaster vulnerability: Space and Location</i> Chair: Ronald T. Eguchi (ImageCat, Inc.)</p> <ul style="list-style-type: none"> a. <i>Vulnerability Mapping: Approaches from Continental to Local Scales</i> Lelys Bravo de Guenni (Simon Bolivar University), Raúl Ramirez (SBU), Elvin Barreto (SBU) and Isabel Llatas (SBU) b. <i>Vulnerability to Earthquakes Hazard in the District Bantul, Middle Of Java</i> Hendri Subakti (Central of Research and Development Meteorology Climatology and Geophysic Agency of Indonesia) c. <i>A Comprehensive Assessment of Building Damage after the January 12, 2010 Haiti Earthquake</i> Ronald T. Eguchi (ImageCat, Inc.) d. <i>Situation Assessment Toolkit: The Case of the Fukushima Accident</i> Dan Vamanu (IFIN) and Adrian Gheorghe (Old Dominion University) 	<p>Club Room</p>
<p>17. <i>Climate Change</i> Chair: Michael Glantz (University of Colorado)</p> <ul style="list-style-type: none"> a. <i>Future Flood Risk and Adaptation Strategies in the Tisza Region: A Dynamic Risk-Layer Approach</i> Stefan Hochrainer-Stigler (IIASA) b. <i>Changes in Rice Disasters Across China in Recent Decades and the Meteorological and Agronomic Causes</i> Fulu Tao (IGSNRR), Shuai Zhang (IGSNRR) and Zhao Zhang (Beijing Normal University) 	<p>Figueroa Room</p>

<p>c. <i>Caribbean Disaster Management Policy Response to Climate Change</i> Kerry Hinds (George Washington University)</p>	
<p>18. <i>Challenges in Field Research: Challenges in Casifica and DRH projects</i> Organizers/Chair: Hirokazu Tatano (DPRI)</p> <p>a. <i>Disaster Reduction Hyperbase - A Vehicle for Sharing DRR Technology Information</i> Hiroyuki Kameda (Kyoto University), Hiroaki Negishi (Senior Researcher), Kaoru Takara (Kyoto University) and Hirokazu Tatano (DPRI)</p> <p>b. <i>On Earthquake-Resistant Traditional Techniques in the Casbah of Algiers</i> Djillali Benouar (Built Environment Research Laboratory) and Amina Foufa (University "Saad Dahlab" Blida)</p> <p>c. <i>DRH-Bangladesh</i> Muhammad Saidur Rahman (Bangladesh Disaster Preparedness Centre)</p> <p>d. <i>Understanding Creative Adaptation Process in Implementing IDRiM in Hotspots Mumbai, India</i> Bijay Anand Misra (DPRI), Hirokazu Tatano (DPRI)</p> <p>e. <i>Practice and Simulation of Awareness and Preparedness for Natural Disaster by Risk Communications in Gifu, CaSiFiCa</i> Akiyoshi Takagi (Gifu University)</p>	<p>Cardinal & Gold Room</p>
<p>19. <i>Assessment of Complex Systems Risk Assessment Methodologies</i> Organizers/ Chairs: Charles Scawthorn (SPA Risk LLC) and Dmitry O. Reznikov (Russian Academy of Sciences)</p> <p>a. <i>Deterministic, Probabilistic and Statistical Assessments of Losses and Risks Inflicted by Large Scale Catastrophes</i> Nikolay Makhutov (Russian Academy of Sciences)</p> <p>b. <i>Risk Governance to Next Generation Infrastructure Systems</i> Adrian Gheorghe (Old Dominion University)</p> <p>c. <i>Globalization of Mega Catastrophes. Problems of their Prevention and Consequences Mitigation</i> Svetlana Bayda (Civil Defense and Disaster Management Research Institute)</p> <p>d. <i>Potential for Collaborative Research and Education on Regional Resilience of Critical Infrastructure Systems</i> Frederick Krimgold (Virginia Tech)</p> <p>e. <i>Methodological Aspects of Assessment of Risks and Losses Inflicted by Terrorist Attacks at Complex Systems</i> Dmitry O. Reznikov (Russian Academy of Sciences)</p>	<p>Alumni Room</p>
<p>General Discussion: <i>Reframing Disasters</i> Moderator: Hirokazu Tatano (DPRI)</p>	<p>5:30 to 6 pm Embassy Room</p>
<p>Closing Session: Norio Okada (DPRI) and Adam Rose (USC)</p>	<p>6 to 6:30 pm Embassy Room</p>

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**California Science Center
IMAX Theater**
presents

RESCUE



- What:** Follow rescue workers as they train for action and during their deployment to Haiti in the aftermath of the January 2010 earthquake.
- When:** 7:30 p.m., July 13, 2011.
- Where:** California Science Center's IMAX Theater. Across Exposition Boulevard from USC. Please use the IMAX theater entrance since the main Science Center entrance will close at 5 p.m.
- Cost:** Free to IDRiM attendees. Please let the box office know you are with the conference to receive complementary admission; no conference ID required.

*For more information on the film please go to <http://www.rescue-film.com/>
IDRiM thanks Rescue's producers for arranging the screening of
this important film.*

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Los Angeles

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Figueroa St.)
Los Angeles, CA 90037
323-724-3623
www.californiasciencecenter.org

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Adults \$12/ Students (with ID) \$9
900 Exposition Boulevard
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213-763-3466
www.nhm.org

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213-473-0800
www.griffithobs.org

The Geffen Contemporary at MOCA
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Thursdays 5-8 PM
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213-625-1391
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www.getty.edu

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Pacific Palisades, CA 90272
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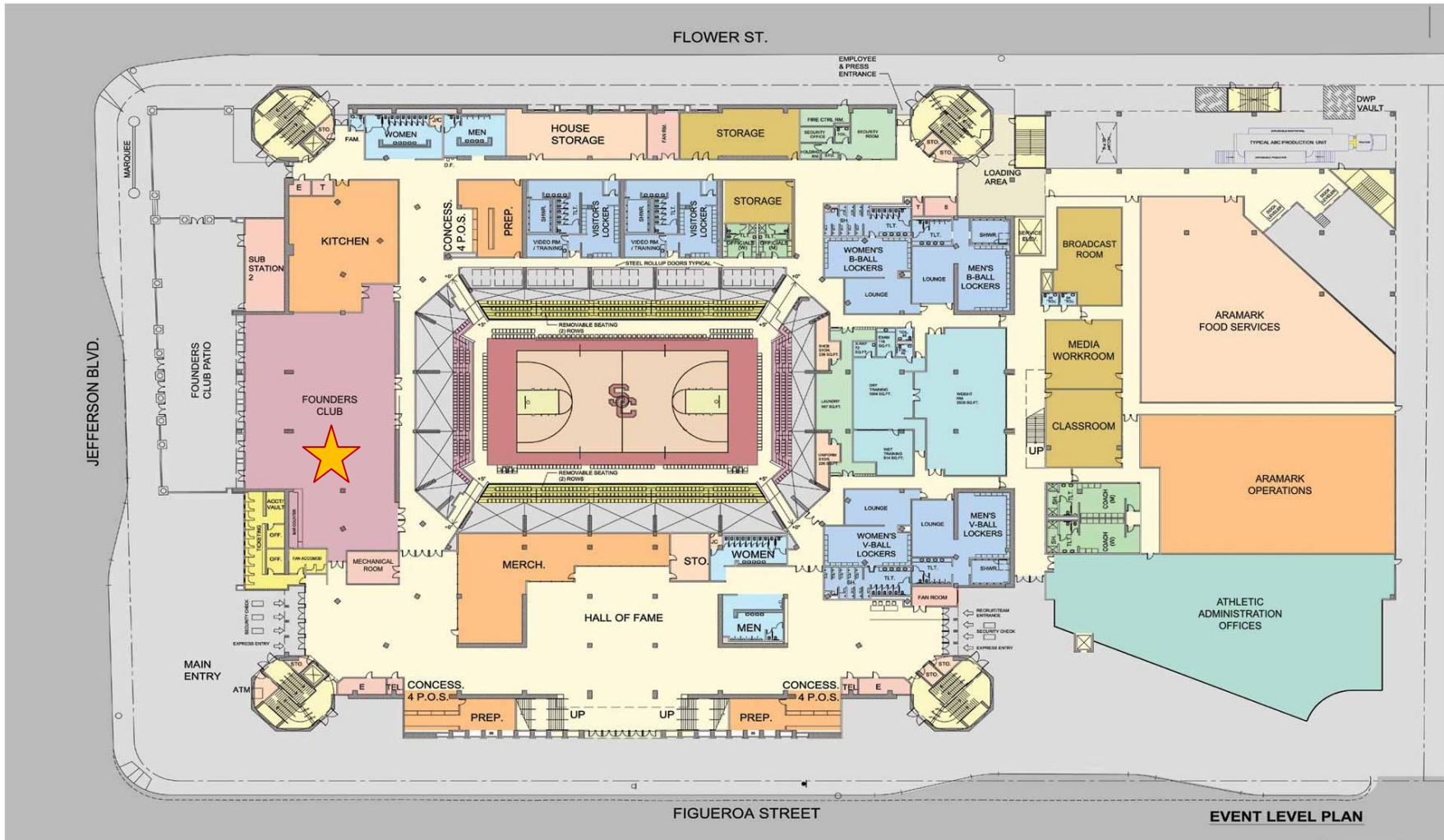
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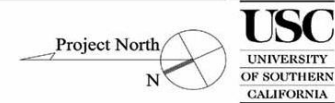
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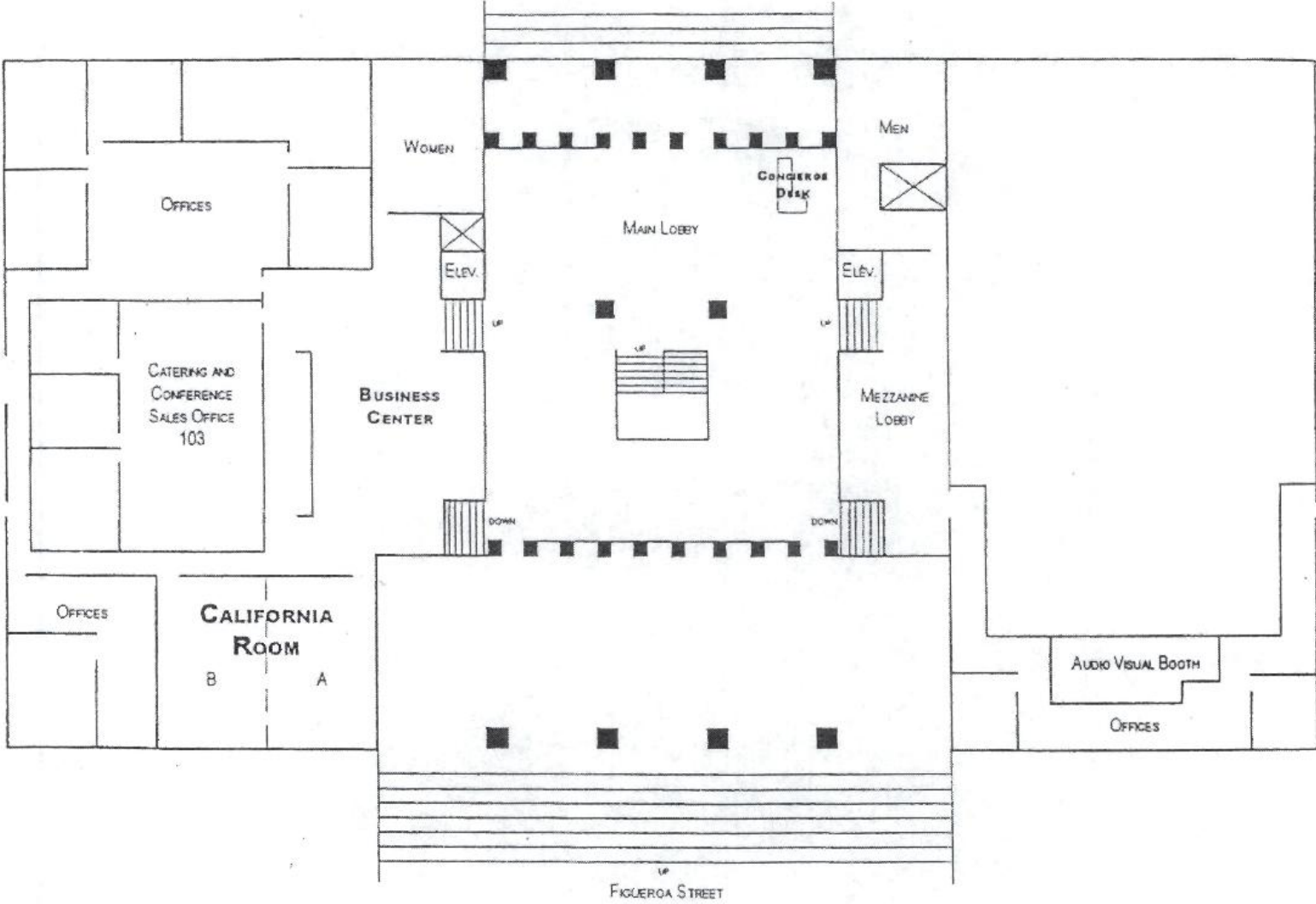
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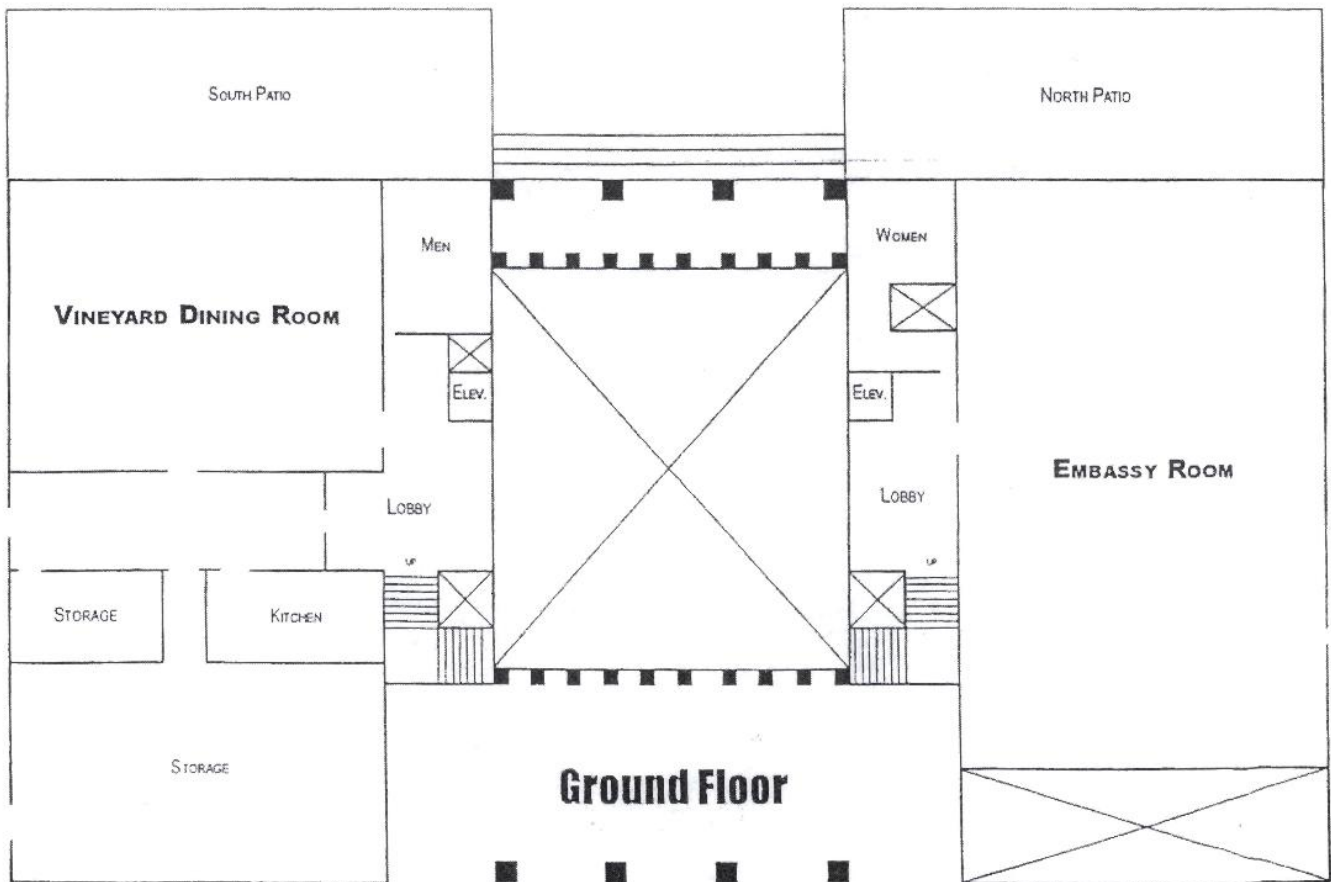
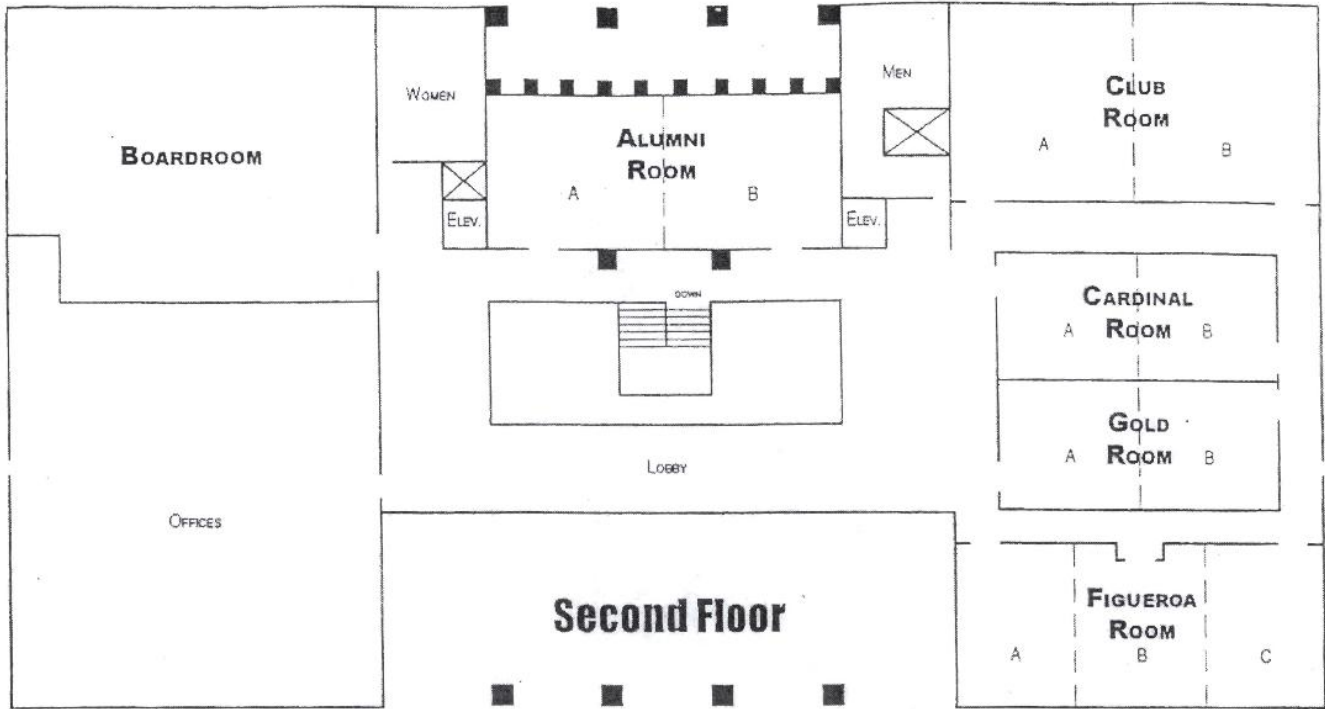


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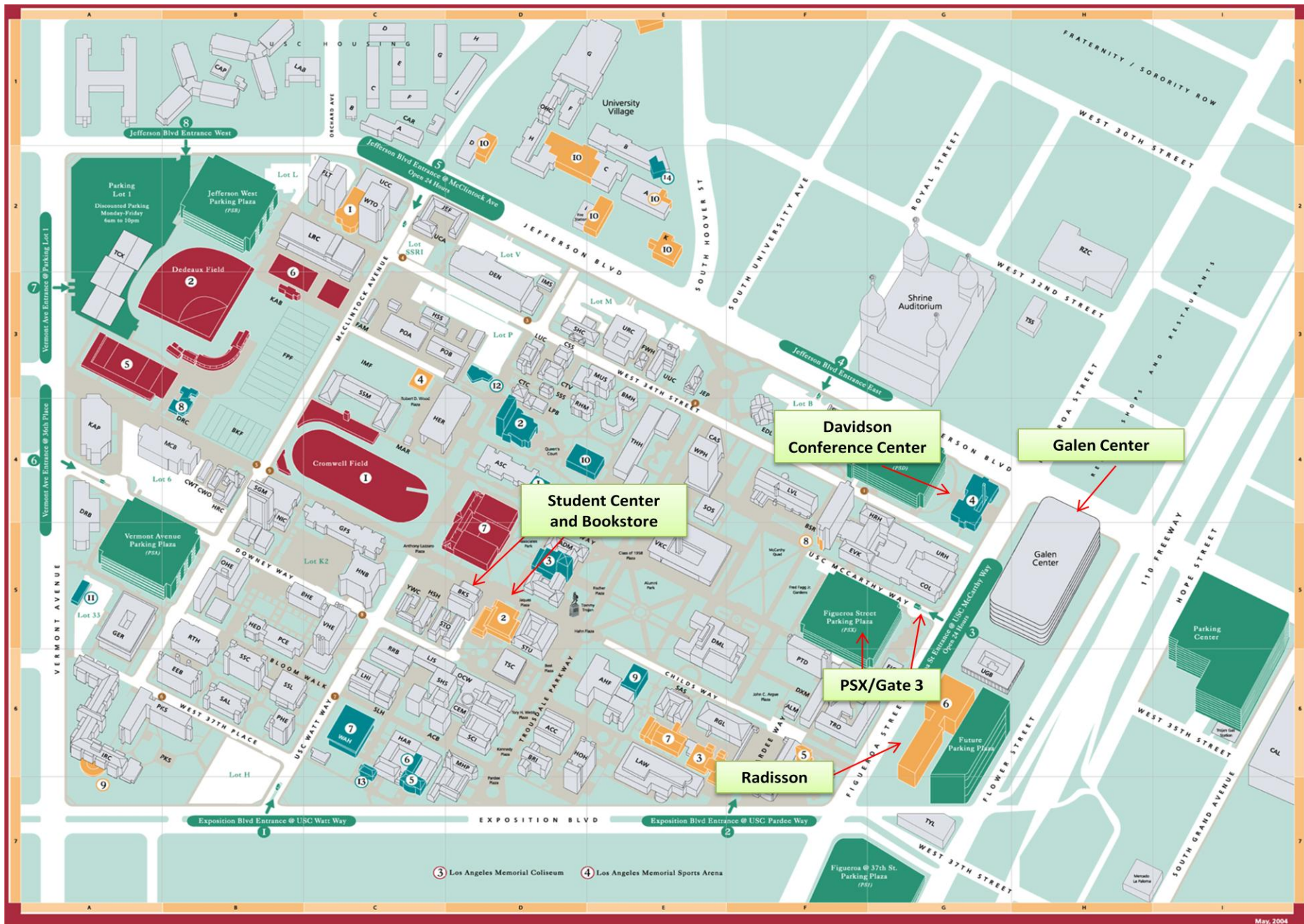


Main Floor

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USC CAMPUS



③ Los Angeles Memorial Coliseum ④ Los Angeles Memorial Sports Arena

THURSDAY JULY 14TH

MILLENNIUM BILTMORE

IDRiM Society Business Meeting
5:30 PM – 7:00 PM (Heinsbergen Room)

Reception

7:00 PM – 10:00 PM (Gold Room)

1. Welcoming Remarks: Norio Okada & Adam Rose
2. Speaker: James Featherstone

FRIDAY JULY 15TH

DAVIDSON CONFERENCE CENTER

Day 1 Begins

8:00 AM – 9:15 AM

1. Welcoming Remarks: Gen Giuliano & Hirokazu Tatano
2. Keynote Address: George Apostolakis

Plenary Session

9:15 AM – 10:45 AM

Implications of the Tohoku EQ and Tsunami, Part I

Parallel Sessions

11:00 AM – 12:30 PM

1. Natch Accidents: Implications for IDRiM and Risk Governance
2. Social Vulnerability: A Multifaceted and Interdisciplinary Concept – Definitions, Needs and Recent Examples of Geospatial Applications
3. Terrorism Risk
4. Future and limitations of Catastrophe Models

Lunch

12:30 PM – 2:00 PM

Speaker: Erwann Michel-Kerjan

Plenary Session

2:15 PM – 3:45 PM

Post Disaster Recovery

Parallel Sessions

4:00 PM – 5:30 PM

5. Resilience as an Approach to Integrated Risk Management
6. Risk Communication and Communicative Surveys
7. Economic Analysis of Disaster
8. Critical Infrastructure

GALEN CENTER

Dinner

7:00 PM – 10:00 PM (Founder's Room)

1. Speaker: Yoshiaki Kawata

SATURDAY JULY 16TH

DAVIDSON CONFERENCE CENTER

Day 2 Begins

8:15 AM – 9:15 AM

Keynote Address: Detlof von Winterfeldt

Plenary Session

9:15 AM – 10:45 AM

Integrated Risk Governance – Integrated Research for Managing Complexity of Large-scale Disasters

Parallel Sessions

11:00 AM – 12:30 PM

9. Economic Impacts
10. Risk Assessment
11. Assessing Disaster Impacts
12. Disaster Communication and Governance
13. Disaster Management
14. Young Scientists

Lunch

12:30 PM – 2:00 PM

Speaker: Kathleen Tierney

Plenary Session

2:15 PM – 3:45 PM

The March 11, 2011 Tohoku Japan Earthquake and Tsunami: Response and Recovery Issues for Japan and the International Community

Poster Session

3:45 PM – 5:30 PM (Grand Foyer)

Parallel Sessions

4:00 PM – 5:30 PM

15. Mega-Cities
16. Disaster Vulnerability: Space and Location
17. Climate Change
18. Challenges in Field Research: Challenges in Casifica and DRH projects
19. Assessment of Complex Systems Risk Assessment Methodologies

General Discussion: Reframing Disasters

5:30 PM – 6:00 PM

Closing Session

6:00 PM – 6:30 PM