



GADRI ACTIONS

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Welcome to the Sixth Issue of the *GADRI Actions*.

GADRI launched an in-house GADRI lecture series to be delivered by visiting faculty of GADRI member institutes. During the month of December 2017, Prof. Adam Rose, Price School of Public Policy and Center for Risk and Economic Analysis of Terrorism Events (CREATE), USA and January and February 2018, faculty members from US Geological Survey Earthquake Science Center, Indian Institute of Institute, Roorkee, and Nalanda University of India delivered lectures at the Disaster Prevention Research Institutes (DPRI), Kyoto University, Uji Campus, Kyoto, Japan.

In March 2018, GADRI organized the 10th Meeting of the Board of Directors at the Disaster Prevention Research Institute (DPRI), Kyoto University, Uji Campus, Kyoto, Japan. This was the last board meeting for six of our valued Board members representing five institutes.

We would like to thank the outgoing Board members for their dedication, time and commitment vested in initializing activities of the Global Alliance of Disaster Research Institutes (GADRI) during the past two years. Without their continued efforts, GADRI could not have glided effortlessly to where it is standing in the community now. We take this opportunity to express our sincere gratitude for their support and advice through the most important stage of building up and moving forward GADRI.

Following the Board meeting, GADRI held the 2nd the Open Discussion Forum under the theme on “How can disaster research institutes significantly contribute to real world Disaster Risk Reduction?”. Members of the GADRI Board and newly formed Advisory Board members introduced their respective institute activities. Prof. Toshio Koike, Director, International Centre for Water Hazard and Risk Management (ICHARM, Japan, delivered a special lecture on the “Proposal on Nation’s Synthesis on Disaster Risk Reduction Supported by Science and Technology”.

We hope you will enjoy this issue of *GADRI Actions*.

Prof. Hirokazu Tatano and Wilma James

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Photographs taken by the Disaster Prevention Research Institute (DPRI), Kyoto University, Japan.

GADRI Actions is designed, formatted and edited by Wilma James.

2nd Open Discussion Forum

How can disaster research institutes significantly contribute to real world Disaster Risk Reduction?

15 March 2018

Collaborative Research Hub – Conference Room 301
Disaster Prevention Research Institute (DPRI), Kyoto University
Uji Campus, Kyoto, Japan



Participants of the 2nd Open Discussion Forum, Collaborative Research Hub, Disaster Prevention Research Institute (DPRI), Kyoto University, Uji Campus, Kyoto, Japan, 15 March 2018

GADRI Activities—2nd Open Discussion Forum



The Second Open Discussion Forum under the theme of “How can Disaster Research Institutes significantly contribute to real world Disaster Risk Reduction?” was held at the Collaborative Research Hub – Conference Room 301, Disaster Prevention Research Institute (DPRI), Kyoto University, Uji Campus, Kyoto, Japan on 15 March 2018. The Forum was attended by 52 participants.

The objectives of 2nd Open Discussion Forum were to:

- introduce GADRI activities, and the members of GADRI Board of Directors
- facilitate discussion between GADRI members and important stakeholders in various disciplines of disaster risk reduction; and
- identify new directions for GADRI to proceed in the next few years.

The Forum was opened with a welcome speech by Prof. Hajime Nakagawa, Director, DPRI, Kyoto University who expressed his pleasure of hosting GADRI Secretariat at DPRI and to note the rapid progress GADRI have achieved within three years of its establishment.

GADRI Activities—2nd Open Discussion Forum

The keynote lecture delivered by Prof. Toshio Koike, Director, International Centre for Water Hazard and Risk Management (ICHARM), Tsukuba, Japan focused on the “Proposal on Nation’s Synthesis on Disaster Risk Reduction Supported by Science and Technology”, an initiative emanated together with the Tokyo Statement 2017 after the Global Forum for Science and Technology for Disaster Resilience held in November 2017. The Forum was organized in collaboration with the International Science and Technology Society representing the Science Council of Japan (SCJ) of the Cabinet Office of Japan. Prof. Koike briefly described the history of SCJ’s involvement with the Science and Technology Community by submitting a proposal committing to build and implement disaster risk reduction in collaboration with other stakeholders. The proposal called for incorporating science and technological knowledge into decision making processes in each country. The negotiating process of the Sendai Framework for Disaster Risk Reduction gives priority to science and technology as well as understanding, governance, investment and build back better. The proposal emphasizes the importance of engagement by various stakeholders in the science and technology community supported by national, regional, international and the worldwide science



communities within the UN framework covering many collaborative countries.

He emphasized that with the Sendai Framework for Disaster Risk Reduction 2015-2030, a new era for DRR dawned in Sendai to improve understanding, strengthen governance, encourage investments and promote build-back-better. For each of these topics working groups were established to discuss and develop policy briefs and periodic synthesis reports.

With the Tokyo Statement 2017, it is envisaged to encourage sharing information and functions of multilingual metadata and processes by canvassing engagement of science and technology communities in each country in collaboration with the international science and technology communities.

GADRI Activities—2nd Open Discussion Forum



GADRI Activities—2nd Open Discussion Forum

Prof. Makoto Okumura, International Research Institute of Disaster Science (IRIDeS), Tohoku University reported on the World Bosai Forum 2017 held in Sendai in November 2017. The Forum was “aimed to pursue practical solutions in disaster risk reduction through lessons learned from the Great East Japan Earthquake and Tsunami and other disasters around the world”. Prof. Okumura appreciated GADRI contributions by holding a session on “Vision and Future of GADRI” and a booth at the forum. The World Bosai Forum and the International Disaster and Risk Conference will be held in alternate years in Davos, Switzerland and Sendai, Japan until 2029. There were 93 poster sessions and nearly 1,000 participants from 42 countries and regions who attended the Forum.

The presentation by Prof. Andrew Collins, Leader, Disaster and Development Network (DDN), Northumbria University, UK on “Allying Disaster Risk Data and Communication” discussed importance of varied forms of data being appropriately grounded in both experience and consciousness to enable communication and engage uncertainty about hazards, vulnerabilities and coping capacities of the future. He also reported on the Science and Technology Advisory Group of the UNISDR Working Group draft proposal on data collection, data coordination and existing work of other global networks and alliances committed to the goal of the SFDRR.

The presentation on “Information Intelligence for Disaster Reduction and emergency Preparedness” by Prof. Wei-Sen Li, Secretary-General, National Science and Technology Center for Disaster Reduction (NCDR) discussed the importance of disaster risk reduction and management and how to find a niche to handle emergency situations in Chinese Taipei and covered NCDR’s involvement with the national platforms for disaster risk reduction. Prof. Li proposed a new paradigm for GADRI would be to encourage and explore disaster managers’ capacity building through case studies on evidence-based disaster risk reduction, build-back-better trends and policies on post-disaster recovery, internships for field study, and involvement of NGOs,

NPOs, public-private partnerships, and sharing regional and global mechanisms and resources for disaster risk reduction. NCDR offers a few fellowships to members of GADRI network to participate in its annual capacity building international training workshop.



GADRI Activities—2nd Open Discussion Forum

Prof. Irasema Alcántara-Ayala, Institute of Geography, National Autonomous University of Mexico (UNAM) made a presentation on “SFDRR, Priority 1- Understanding Risks: Contribution of Universities to Society”. She stressed the importance of bringing together the expertise and experiences of countries such as Japan and UK not only in terms of natural hazards, but also the different dimensions of vulnerability and how to link with the science and technology community, policy making and practices. Safety, poverty, inequalities, education and health all are related to different dimensions of vulnerability. GADRI could serve as an advocacy organization presenting



scientific evidence-based information and knowledge, and learn from its member institutions how to implement disaster risk strategies and how to overcome difficulties for disaster risk reduction and management.

Prof. Khalid Mosalam, Director, Pacific Earthquake Engineering Research Center (PEER), University of California-Berkley, USA delivered a presentation on “PEER at 21; the Practice of Performance-based Engineering for Natural Hazards” which covered details of current ongoing projects and activities and emphasizing



PEER’s ready support to GADRI activities. In particular, the annually taking place “PEER Hub Image (PHI) 2018 Challenge” was introduced and encouraged GADRI member institutes to be involved in its activities. He closed his presentation with a quote by Alexander Wissner-Gross, a physicist at Harvard “Datasets – not algorithms – might be the key limiting factor to development of human-level artificial intelligence.” He stressed the importance of sharing collected data as a community and benefits it could reap in the future. PEER will help the communities by developing such tools to facilitate sharing the wealth of information.

Prof. Charles Scawthorn, Visiting Researcher, University of California-Berkeley, USA – presented on the plans and progress of “GADRI’s Regional Alliances”. With the increased number of memberships of GADRI covering a global representation in Africa, Asia, Europe, Oceania and Americas, coordination from one location may prove difficult. An alternative was is to actively foster creation of regional alliances and encourage GADRI members to organize regionally. GADRI members become parts of regional alliances.



Currently, it is the following regional alliances are established:

- North American Alliance of Disaster Research Institutes (NAADRI)
- UK Alliance of Disaster Research (UKADR)
- African Alliance of Disaster Research Institutes (AADRI)

The North American Alliance was initiated in July 2017 during the 42nd Annual Natural Hazards Workshop, convened by the Natural Hazards Center (NHC), University of Colorado Boulder, USA. Natural Hazards Center Director, and GADRI Board Member, Prof. Lori Peek, convened a second session of stakeholders from the potential North American Alliance in Boulder, Colorado. Center Directors representing 13 centers in the U.S. and Canada attended the meeting. Two of the centers were members of GADRI Board of Directors. Accomplishments so far are discussions for a suitable name (proposed – North American Alliance for Hazards and Disaster Science), and establishment of a Charter Committee, which includes Karl Kim, Thomas Kirsch, Paul Kovacs, Lori Peek, and Charles Scawthorn. The plan is to have the North American Center Directors vote on the proposed charter during the Center Directors meeting to be held July 8, 2018, to coincide with the 43rd Annual Natural Hazards Workshop to be held in Colorado.

Prof. Andrew Collins Co-Chairs the UKADR, and Prof. Desmond Manatsa, University of Bindura, South Africa leads the AADRI.

GADRI Activities—2nd Open Discussion Forum

Prof. Dalila Loudhyi, Water and Environmental Engineering, University of Hassan II of Casablanca (UHIIC), Morocco gave “An Overview of Disaster Risk Management and Research in Morocco”. The presentation covered types of disaster risk and major challenges in Morocco and institutional fragmentation of disaster risk management. UHIIC will hold the “Fourth International Symposium on Flash Floods in Wadi Systems - Urban Flood Risk Management: Mitigation and Adaptation Measures in the MENA Region” from 4 to 6 December 2018. Prof. Loudhyi and Prof. Mustapha Lkhider, Dean, Faculty of Sciences and Technics of



Prof. Tatano (R) presented the GADRI Certificate of Membership for University of Hassan II of Casablanca to Prof. Mustapha Lkhider (C) and Prof. Dalila Loudhyi (L)

Mohammedia (FSTM) were visiting DPRI, Kyoto University. Soon after the presentation, the occasion was used to conclude the GADRI membership.

Dr. Tom De Groeve, Deputy Head, Disaster Risk Management Unit, Joint Research Centre of the European Commission's in-house science service presentation was on “Science for Disaster Risk Management: an EU Perspective”. Among some of the projects introduced by Dr. Groeve, he covered the project on Copernicus Emergency Management Service a large space programme in Europe on earth observation and serve as an emergency management which is managed by JRC. He remarked that GADRI is an important platform to connect with other research centres to ensure priorities are in line with other priorities to contribute to global efforts.

Presentation by Dr. Glenn McGillivray, Managing Director, Institute for Catastrophic Loss Reduction (ICLR), Canada was on “ICLR and Canadian Disaster Risk Reduction” ICLR works with the insurance community confronted by rising disaster losses and is an international center of excellence for disaster resilience homes, buildings and public infrastructure. With regard to GADRI and ICLR stressed the fact that we all face many of the same issues and same challenges and the importance is in making a difference through networking, sharing best practices and working together on projects.

GADRI Activities—2nd Open Discussion Forum

Dr. Gonzalo Bacigalupe, Principal Investigator, Research Center for Integrated Disaster Risk Management (CIGIDEN), presented on “From Addressing the Emergency to Building Disaster Resilience: Transdisciplinary Research Efforts at CIGIDEN” covering research projects and activities.

The “Role in Disaster Risk Reduction and Development Resilience” was presented by Dr. Mahua Mukherjee, Head Center of Excellence in Disaster Mitigation Management (CoEDMM), Indian Institute

Introduction to the Institute for Advanced Sustainability Studies (IASS) was presented by Prof. Norio Okada who returned to Kyoto from his one-year senior fellowship at IASS. He remarked that IASS focuses on topics with a high transformation need and potential; takes a transdisciplinary research approach to develop transformative knowledge; and co-create solutions for urgent sustainability challenges to support national and international decision-making processes.

Presentation on “Educating a New Breed of Professional for DRR at DPMM, Asian Institute of Technology (AIT): Interdisciplinary DRR Approach, Capabilities, Potential and Limitations” was delivered by Dr. Indrajit Pal, Assistance Professor and chair, Disaster Preparedness, Mitigation and Management, Asian Institute of Technology



of Technology, Roorkee, India - a multidisciplinary institute focusing on regional risks. By contributing to GADRI projects through capacity building, involvement in GADRI Book Series and in research disciplines such as geophysical, hydrological meteorological, the institute expects to learn through peer co-learning, information updating and sharing and other research opportunities.

(AIT), Thailand. He gave a comprehensive view of the DPMM programmes and activities. He discussed on practical challenges for education in disaster management and the fewer market opportunities for students. He expressed his institute’s willingness to significantly contribute to GADRI projects and activities.

GADRI Activities—2nd Open Discussion Forum

General Discussion was opened by Prof. Hirokazu Tatano and Chaired by Dr. Tetsuya Takemi and Prof. Andrew Collins. With the array of impressive presentations during the day, the floor opened with very stimulating and fruitful discussions related to advocacy, Tokyo Statement 2017, GADRI Book Series, EC-JRC Science and Technology book series and capacity building initiatives.

How best could GADRI advocate mutual sharing of resources? A few proposals were put forward.

- It is difficult to engage national platforms and GADRI members could take the lead on collaboration and make it a possibility.
- Towards Tokyo Statement 2017 - GADRI members contribute to collection of country data including institutional information, governmental conditions and implemented data statistics.
- A journal collection of best and worst practices in disaster risk management. It is not necessary to cover merely best practices but include bad practices as case studies which cannot be published easily.
- In terms of strengthening communication, introduce a GADRI lecture series or GADRI online courses on disaster risk management.
- Another option explored was to offer a course on disaster risk management in different disciplines. Each institute could be responsible for a lecture and the course could be offered once a year for two weeks. This could be done through GADRI website. It is also an opportunity for members to listen to each other and learn about the ongoing projects, activities and results.
- Another dimension along the same lines is to talk about local disaster problems and literally go out and show the problem – emphasize case studies.
- Possibilities for offering GADRI master classes with multiple universities involved which could be filmed, edited and make it online.
- Encourage and foster the progress of the regional alliances. It was also noted that with the current GADRI Secretariat, it would be difficult to manage all members globally.
- How could GADRI promote its objective of data sharing and facilitate to be prominent in the advocacy movement?

Prof. Tatano closed the session expressing his appreciation to all members, secretariat and encouraged to enhance collaboration among each other to increase GADRI visibility and activities.

Further, he thanked Ms. Michiko Sawai for serving the GADRI Secretariat during the past one-year. All members together with Prof. Tatano wished her success in the next endeavour.

GADRI Activities—2nd Open Discussion Forum



Prof. Norio Okada representing IASS, Germany



Dr. Tetsuya Takemi and Prof. Andrew Collins



Prof. Mahua Mukherjee, IIT-Roorkee, India



(L-R) Prof. Tatano, Ms. Michiko Sawaj, Ms. Wilma James



Dr. Indrajit Pal, AIT, Thailand



Dr. Subhajyoti Samaddar

10th Meeting of the Board of Directors

The tenth meeting of the Board of Directors took place at DPRI, Kyoto University, Uji Campus on 14 March 2018. The meeting was attended by current members of the Board the five new members who will start from 1 April 2018. The Director of the Disaster Prevention Research Institute (DPRI), Kyoto University welcomed and greeted all members of the Board.

A few of the deliberations included the term of office of Chair of the Board, terms of reference for the Board of Directors and the establishment of an Advisory Board and the nomination of its members. The following members consist of the Advisory Board:

- Dr. Stefan Hochrainer-Stigler, Senior Research Scholar, International Institute for Applied Systems Analysis (IIASA), Austria
- Prof. Shi Peijun, Executive Vice-President; Prof. Qian Ye, Executive Director, Integrated Risk Governance Project (IRG-Project), State Key Laboratory of Earth Surface Processes and Resource Ecology, Beijing Normal University, China
- Dr. Mohsen Ashtiany, International Institute of Earthquake Engineering and Seismology (IIEES), Iran
- Prof. Rajib Shaw, Graduate School of Media and Governance, Shonan Fujisawa Campus (SFC), Keio University, Japan
- Prof. Irasema Alcántara-Ayala, Director, Institute of Geography, National Autonomous University of Mexico (UNAM), Mexico
- Dr. Kelvin Berryman, Principal Scientist, General Manager, Natural Hazards Division, GNS Science, New Zealand
- Dr. Walter Amman, Director, Global Risk Forum (GRF Davos), Switzerland
- Prof. Wei-Sen Li, Secretary-General, National Science and Technology Center for Disaster Reduction (NCDR), Chinese Taipei
- Prof. Khalid Mosalam, Director, Pacific Earthquake Engineering Research Center (PEER), USA
- Prof. Andrew Collins, Co-Chair, UK Alliance of Disaster Research (UKADR), UK
- Prof. Charles Scawthorn, Chair, North American Alliance of Disaster Research Institutes (NAADRI), USA
- Prof. Desmond Manatsa, Leader, African Alliance of Disaster Research Institutes (AADRI), Zimbabwe

In addition, the theme and dates for the 4th Global Summit of Research Institutes for Disaster Risk Reduction were confirmed.

The Fourth Global Summit under the theme of “How do we make disaster research institutes relevant in disaster risk reduction” will be held at DPRI, Kyoto University, Uji Campus, Kyoto, Japan from 13 to 15 March 2019.

GADRI Activities—10th Meeting of the Board of Directors



Group Photo—10th Meeting of the GADRI Board of Directors, DPRI, Kyoto University, Uji Campus, Kyoto, Japan, 14 March 2018

As the term of office of half of the current members of Board will come to an end on 31 March 2018, five new institutes were elected by the GADRI General Assembly.

1. Prof. Paul Kovacs, Institute for Catastrophic Loss Reduction (ICLR), Western University, Canada,
2. Prof. Rodrigo Cienfuegos, Centro Nacional de Investigacion Par la Gestion de Desastres Naturales (CIGIDEN), Chile
3. Prof. Ortwin Renn, Institute for Advanced Sustainability Studies (IASS), Germany

4. Dr. Mahua Mukherjee, Indian Institute of Technology, Roorkee (IIT-R), India
5. Dr. Indrajit Pal, Disaster Preparedness, Mitigation and Management (DPMM), Asian Institute of Technology (AIT), Thailand

GADRI Secretariat and the GADRI General Assembly are grateful to the outgoing Members of the Board and thank them for their dedicated service to GADRI during the most crucial period of its establishment. GADRI hope that the outgoing members will continue share their contributions to GADRI activities. GADRI look forward to working the new members of the Board from 1 April 2018.



New members of the GADRI Board of Directors

(L-R—IIT Roorkee, India-Dr. Mahua Mukherjee; AIT, Thailand-Dr. Indrajit Pal; CIGIDEN, Chile-Dr. Gonzalo Bacigalupe representing Prof. Rodriguez Cienfuegos; and ICLR, Western University, Canada-Dr. Glenn McGillivray representing Prof. Paul Kovacs)

Lecture on "Measuring Economic Resilience to Natural Disasters and Terrorism" by Adam Rose

During his visit, Prof. Adam Rose, Price School of Public Policy and Center for Risk and Economic Analysis of Terrorism Events (CREATE), University of Southern California delivered a lecture on "Measuring Economic Resilience to Natural Disasters and Terrorism" at the Kyoto University, Uji Campus, Conference Hall S-519D on Monday, 4 December 2017.

During his presentation, he mentioned that resilience is a powerful strategy for reducing losses from disasters. Its unique character pertains to how best to recover economic activity after a disaster has struck. This can be done by using remaining resources as effectively as possible and accelerating the repair and reconstruction of the capital stock. Further, his presentation focused on recent advances in measuring economic resilience in a variety of contexts, such as electricity outages, seaport disruptions, hurricanes, and earthquakes. He presented results of recent survey research and described their implications for development of an economic resilience index. He also explained about a broader benefit-cost analysis framework for making resource allocation decisions, including trade-offs between (pre-event) mitigation and (post-event) resilience.

Lecture on "Development of Current Practice in Site Characterization for Acquiring Vs and Vs30" by Alan Yong

Dr. Alan Yong delivered a lecture on "Development of Current Practice in Site Characterization for Acquiring Vs and Vs30" at DPRI, Kyoto University, Uji Campus, Kyoto, Japan on 24 January 2018.

Dr. Alan Yong is a Research Geophysicist at the US Geological Survey Earthquake Science Center since 2009; from 1998-2009, Yong served as Operational Geophysicist.

His lecture discussed about the main considerations for modeling seismic ground motions which typically involve a trichotomy of effects that are partitioned into source, path, and site. Site conditions—often representing no more than 1% of the path from the seismic source—can strongly influence site response, thus dominate the intensity of shaking. To account for this phenomenon, the engineering community has traditionally used the index of Vs30, the time-averaged shear-wave velocity (Vs) from the surface to a depth of 30 meters. The lecture will present a review of the state-of-practice for estimating Vs30, as well as select developments for advancing measured-based Vs30 methods. The presentation will describe current practice using multiple surface-based methods to develop robust Vs profiles to determine Vs30 within 5-10% inter- and intra-method variability. Lastly, an ongoing 2 year old international effort sponsored by the Consortium of Organization for Strong Motion Observation Systems (COSMOS) to develop best practices/guidelines for using noninvasive geophysical methods when characterizing seismic site conditions will be introduced.

Lecture on "Addressing Urban Risks in Planning of Satellite Towns of Mega Cities: Case of the Kolkata Metropolitan Area (KMA)" by Uttam Kumar Roy

Lecture on "Addressing Urban Risks in Planning of Satellite Towns of Mega Cities: Case of the Kolkata Metropolitan Area (KMA)" was delivered by Dr. Uttam Kumar Roy, Assistant Professor, Indian Institute of Technology (IIT), Roorkee, India at the Room S-207D, DPRI Main Building, Uji Campus, Kyoto University, Japan on 15 January 2018.

The lecture focused on mega cities around the world that represents preferred destinations of exploding populations. Megacities expand in faster pace than other cities. It demands constant supply of developed land & infrastructures for new affordable housing and variety of employments. Often getting such land and infrastructure within existing urban extent or statutory/metropolitan areas becomes

extremely difficult. The presentation explained the key strategies taken to address the potential risks including urban flooding in the planning of one of such satellite towns, now called as New Town Kolkata which has recently been identified by the union government as one of the Smart Cities under Smart City Mission.



Lecture on "Pollutant Fate and Transport of the Subsurface Systems" by Prabhakar Sharma

Lecture by Dr. Prabhakar Sharma, Assistant Professor, School of Ecology and Environment Studies, Nalanda University, Nalanda, Bihar, India delivered a lecture "Pollutant Fate and Transport of the Subsurface Systems" at the Room S-207D, DPRI Main Building, Uji Campus, Kyoto University, Japan on 27 February 2018.

His presentation covered different anthropogenic activities near the large water bodies which can lead to a heavy load of pollutant on the wetland and ultimately to the subsurface systems. In

order to understand the fate of these pollutants (such as agrochemicals, heavy metals, and other micro-size pollutants) and their impact on groundwater bodies, it is important to understand their transport and mobilization mechanism in the subsurface system.

He explained the understanding of the fate and transport of engineered nanoparticles (ENPs) released from selected commercial products in the Indian or similar environment (e.g., soil, wetlands, and aquifers).

Introducing New Members



Faculty of Civil Engineering, University of Sciences and Technology Houari Boumediene, Algeria

Located 15km outside of the capital Algiers, the University of Sciences and Technology Houari Boumediene (USTHB) is a modern university that focuses Computing, Pure and Applied Mathematics, Physics, Chemistry, Biology, Geology, Civil Engineering, Electronics, Information Technology, Process Engineering, and Mechanical Engineering.



Federal University of Campina Grande (UFCG), Brazil

The Federal University of Campina Grande (UFCG) is located in the State of Paraíba, in the north-eastern region of Brazil. UFCG is a multi-campi university, with campuses in 7 cities of the state, with 11 academic centres, 1,481 faculty members, 1,420 staff members, over 20,000 in many different fields of expertise.



Jindal School of Liberal Arts and Humanities (JSLH), O.P. Jindal Global University, India

JSLH is a value frame or a particular ideal of education. It emphasizes the teacher as an exemplar. Performativity and commitment become important. A teacher becomes a legend who creates the folklore of liberal arts. The student is not a passive creature. She is a creator and inventor of a new self or a renewed self. She is a seeker, explorer and the syllabus becomes a map of possibilities. In a Deleuzian sense, liberal arts are not about tracing.



School of Ecology and Environment Studies (SEES), Nalanda University, India

The School of Ecology and Environment Studies (SEES) is one of the first schools at the Nalanda University, which commenced its academic programme in August 2014. The School traverses a broad range of academic pursuits across natural sciences and social sciences, to promote education and research on the interactions between the natural environment and human activities.



Center for Transdisciplinary Research, Sri Lanka

The Center for Urban Water is being set up for flood control and water management in Metro Colombo to become operational in 2018. Its primary function is the control of pumps and gates that are being installed under the Metro Colombo Urban Development Project. Center will also assess current and evolving future water related risks to Megapolis from urban development as well as climate change.



Sri Lanka Institute of Information Technology (SLIIT), Sri Lanka

SLIIT was established in 1999. We opened our doors to 400 students in Metro Campus in Colombo. Currently, we offer both undergraduate and postgraduate courses and accommodate over 7000 students, including international students from various regions in the world. More than 9000 alumni have graduated from our three faculties: Business, Computer, and Engineering.

Announcements



PEER has developed the first structural engineering dataset that incorporates machine-learning models of detecting and categorizing damage in images. The PEER Hub ImageNet (PHI) dataset tool will enhance the field and

application of vision-based structural health monitoring for researchers and practitioners in natural hazards engineering.

CALL FOR PARTICIPATION

Contribute to the PHI dataset in two ways!

- NOW: Help build the dataset – provide images with or without labels and annotation at <http://apps.peer.berkeley.edu/spo/>.

Contributors will be acknowledged on this site.

Call for Application for UNESCO Chair Programme on Cultural Heritage and Risk Management, International Training Course (ITC) on Disaster Risk Management of Cultural Heritage 2018, 13th year, Ritsumeikan University

Cultural heritage is increasingly exposed to disasters caused by natural and human induced hazards such as earthquakes, floods, fires, typhoons, theft, terrorism etc. Recent examples include Earthquakes in Central Mexico in 2017, Central Italy and Myanmar in 2016, Nepal earthquake in 2015, UK floods in 2015, Balkan floods in 2014 and ongoing conflicts in Syria and Yemen. http://www.r-dmuch.jp/en/project/itc_2018.html

12th Children's Map Contest for Community Safety

Nowadays, more people are interested in ensuring that their local neighborhood is safe and secure against accidents and disasters, including natural disasters associated with earthquakes, concentrated heavy rain, and other such things, or traffic accidents and incidents of crime. Since 2007, we at the Institute of Disaster Mitigation for Urban Cultural Heritage, Ritsumeikan University have been holding an annual Map Contest for Community Safety for children in primary schools. <http://www.r-dmuch.jp/en/project/mapcontest.html>

4th Global Summit of Research Institutes for Disaster Risk Reduction (GSRIDRR2019)

How do we make disaster research institutes relevant in disaster risk reduction

Obaku Plaza, DPRI, Kyoto University, Uji Campus, Kyoto Japan from 13 to 15 March 2019

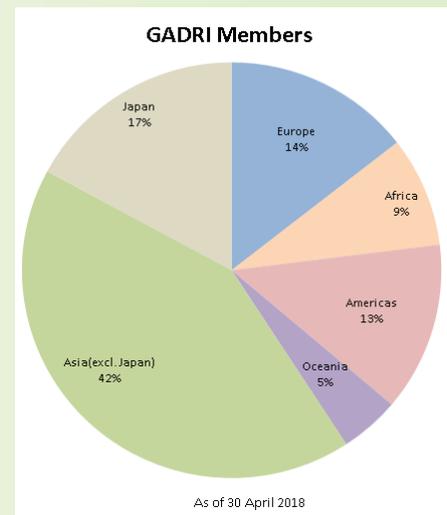
The Fourth Global Summit of Research Institutes for Disaster Risk Reduction, sponsored by the Global Alliance of Disaster Research Institutes (GADRI) and Kyoto University, is the fourth session of the Global Summit Series. The Global Summits provide a platform for researchers, practitioners, policy makers, and other stakeholders in both government and non-governmental institutes involved in disaster risk reduction and resilience to come together to discuss, share and exchange ideas to contribute and be relevant to the priority areas of the Sendai Framework for Disaster Risk Reduction. <http://www.gadri.net>

Global Alliance of Disaster Research Institutes (GADRI)

At the commendation of the Second Global Summit of Research Institutes held in March 2015 at the Kyoto University Disaster Prevention Research Institute, Kyoto, Japan, the Global Alliance of Disaster Research Institutes (GADRI) was established to support the implementation of the Sendai Framework for Disaster Risk Reduction 2015-2030 (SFDRR) and the work of the Scientific and Technical Advisory Group of the United Nations Office for Disaster Risk Reduction (UNISDR). One of the recommendations was to form a research roadmap for the next decade.

To further realize these goals, the members of the Second Global Summit joined hands and established the Global Alliance of Disaster Research Institutes (GADRI). Since March 2015, over 150 research institutes in 41 states have expressed interest to become members of GADRI.

Area	Members (Incl. Intention to join)
Europe	22
Africa	13
Americas	20
Oceania	7
Asia(excl. Japan)	64
Japan	26
TOTAL	152 (41 States)



**Global Alliance of Disaster
Research Institutes (GADRI)
Secretariat**

GADRI Secretariat is currently hosted by the Disaster Prevention Research Institute (DPRI), Kyoto University, Kyoto, Japan.

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