



The CAPES/PROEX PPGSHS – EESC/USP – will host an international workshop at Sala de Aprendizado Eletrônico (USP São Carlos), on the 01st and 2nd April 2019, entitled:

" International workshop on knowledge exchange of Socio-hydrological vulnerability and patterns of public risk perception of water security"

by

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#WATERS2019 

Dr. Namrata Bhattacharya-Mis University of Chester, United Kingdom

Context: With support of FAPESP UK Academies Grant Project “Understanding risk perception and enigma of peoples’ memory through social-hydrology”, the Graduate Program of Hydraulics and Sanitation Engineering (EESC/USP - Brazil) in association with University of Chester (United Kingdom) will host this workshop, which aims to develop an interdisciplinary collaborative dialogue to reduce impact of water extremes and improve socio-ecological resilience. The workshop will address objectives and goals of the running FAPESP-UK Academies project, promoting more international cooperation between Brazil, United Kingdom, Sweden, Netherlands, China, Germany, and USA.

Short Bio: Dr Namrata is a lecturer in Geography and International Development Studies, Visiting Research Fellow, University of West of England, Bristol, Fellow of the Royal Geographical Society, Member of the Development Studies Association, is an environmental research professional with experience in GIS and Remote Sensing in environmental modelling and management. She has professional expertise in flood hazard, vulnerability and risk assessment. Her expertise include: Environmental modelling and management; Disaster risk assessment, Development and Socio-economics of Geo-hazards, Social-Hydrology, Man-Nature relationship for risk management through system dynamics.

PARTICIPANTS ARE REQUIRED TO HAVE LAPTOPS WITH QGIS INSTALLED

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2018		Speakers	Topic
Day 1 (1st April, 2019)			
8:00 - 8:30		<u>Dr Tercio Ambrizzi</u> , Coordinator of INCLINE and Professor at IAG/USP, also Vice-Coordinator of Brazilian Institute of Science and Technology on Climate Change-2 (INCTMC2)	
8:30 - 8:45		<u>Eduardo M Mendiondo</u> (USP, University of Sao Paulo), <u>Namrata Bhattacharya Mis</u> (University of Chester)	Introduction to the WATERS workshop
8:45 - 9:30		<u>Dr Faith Chan</u> (China) +11 hours from Brazilian time	Rethink the flood risk management strategies in Chinese coastal megacities – the cases of Hong Kong and Ningbo
9:30 - 9:45	Coffee Break		
9:45 - 10:25		<u>Dr Daniel Green</u> (UK) +4 hours from Brazilian time	An evaluation of the city-scale accessibility of emergency responders operating during flood events
10:30 - 12:00		Practical discussion session and group work	PARTICIPANTS ARE REQUIRED TO HAVE LAPTOPS WITH QGIS INSTALLED
12:00 - 13:30	Lunch break		
13:30 - 14:10		<u>Dr Andrew Miles</u> (UK) +4 hours from Brazilian time	Open Source GIS & Open Data for Improving Understanding of Risk & Vulnerability
14:10 - 15:00		<u>Dr Burrell Montz</u> (USA) -1 hours from Brazilian time	Matthew, Florence and Michael: Repeat Losses, Perceptions and Vulnerability
15:00 - 15:40		Practical discussion session and group work	Living with risk: Water concerns
15:40 - 16:00	Coffee break		
16:00-17:00		Practical discussion session and group work	#WATERS2019 

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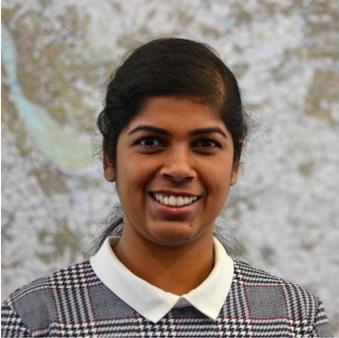
Day 2 2 nd April, 2019	Speakers	Topic
8:00 - 8:10	Namrata Bhattacharya Mis	Session Introduction
8:10 – 8:50	Dr Vincent Odongo (Sweden) +5 from Brazilian time	Lessons from LAKES Lakes Assessment for Knowledge from Earth-observation and Statistics
8:50: 9:30	Dr Olena Dubovyk (Germany) +5 from Brazilian time	On the geography of drought hazard and risk', showcasing importance of drought risk assessment
9:30 – 9:45	Coffee Break	
9:45 – 10:25	Dr Michal Mis (UK) +4 hours from Brazilian time	Introduction of new technologies to the SMEs as a way to Increase their Resilience in Rebuilding Societies
10:30 – 12:00	Practical discussion session and group work	
12:00 – 13:30	LUNCH BREAK	
13:30 – 14:10	Mr Steven Forrest (Netherlands) +5 from Brazilian time	Emerging citizen actions and their potential contributions to flood resilience: Evidence from England and the Netherlands
14:10 – 14:30	Dr Servel Miller (UK) +4 from Brazilian time	High risk, Low vulnerability: Building flood resilience in a socio-economically deprived UK community in a high-risk zone
14: 40 – 15: 40	Group presentation	
15:40 – 16:00	Coffee break	
16:00 – 17:00	Group presentation and closing notes	



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<p>Dr Tercio Ambrizzi</p> 	<p>Dr Tercio Ambrizzi Department of Atmospheric Sciences, University of São Paulo</p> <p>Email: tercio.ambrizzi@iag.usp.br</p> <p>Tercio Ambrizzi is Professor at the Department of Atmospheric Sciences at the University of São Paulo. His topics of interest are dynamic meteorology, numerical modelling of atmosphere and climatology. He worked for several Brazilian and international research projects regarding climate change projections, such as Environmental Ministry, CPTEC/INPE, USP and IPCC. He is the coordinator of the Inter-disciplinary climate investigation center – INCLINE project.</p>
<p>Dr Namrata Bhattacharya Mis</p> 	<p>Namrata Bhattacharya Mis Lecturer in Human Geography & International Development Geography and International Development, University of Chester, United Kingdom Visiting Research Fellow University of West of England, Bristol, UK Visiting Scholar University of Sao Paulo, Brazil Email: n.bhattacharyamis@chester.ac.uk</p> <p>Dr Namrata Bhattacharya Mis is a geographer by training. Her teaching and research interests lies in the understanding and managing the consequence of water extremes (especially flooding in coastal, fluvial and pluvial systems as well as droughts) and the vulnerabilities on the dynamic socio-economic and physical system behaviour. She has worked on projects focusing on topics including: understanding risk perception and memory through social-hydrology; adaptation of urban infrastructure to enhance climate resilience in Nigeria; exploring the effects of temporal clustering of flood events on natural built and socio-economic systems to identify critical vulnerabilities, better allocate resources for protection and recovery and improve resilience.</p>
<p>Dr Faith Chan (China)</p>	<p>Dr Faith Chan Assistant Professor, School of Geographical Sciences, University of Nottingham Ningbo, Ningbo, China; Senior visiting research fellow, School of Geography, University of Leeds, Leeds LS29JT, UK Email: faith.chan@nottingham.edu.cn/k.s.chan@leeds.ac.uk</p> <p>Dr Faith Ka Shun Chan is an Assistant Professor at University of Nottingham, Ningbo campus, China. He has also been affiliated as a visiting research</p>

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	<p>fellow with Water@Leeds Research Institute, at University of Leeds. He currently conducts research on international water management practices, with a particularly focus on flood risk management and climate risk mitigation in East Asian Deltas and coastal cities. He has a strong research and teaching interests on inter-disciplinary aspects on environmental management across physical and human geography, on issues related to sustainable water resources management, development and governance. He has currently worked with the Blue-Green Cities and Resilient Cities research consortium led by University of Nottingham and a couple of international collaborative projects on sustainable flood risk management in the urban cities, flood insurance, flood risk mitigation and commercial properties that are funded by the UK Research councils and organisations in the UK.</p>
<p>Dr Daniel Green</p> 	<p>Dr Daniel Green Senior Lecturer, Geography and International Development, University of Chester, United Kingdom Email: daniel.green@chester.ac.uk</p> <p>Dr Daniel Green is a Senior Lecturer in the Department of Geography and International Development, University of Chester. His research focuses on the numerical modelling of high-intensity surface water flood events in urban areas. Daniel also uses crowdsourcing methodologies to obtain external validation data for numerical models and has extensive experience of using GIS methodologies to model the impact of fluvial and surface water flood events on emergency responder accessibility at the city-scale.</p>
<p>Dr Andrew Miles</p> 	<p>Dr Andrew Miles Senior Lecturer and Combined Honours Geography Programme Leader Geography and International Development, University of Chester, United Kingdom Email : a.miles@chester.ac.uk</p> <p>Dr Andrew Miles is a physical geographer with research interests in coastal processes and coastal management, as well as a broader research interest in the applications of geographical information systems (GIS) and remote sensing across a range of topics. My research interests focus in two overlapping areas; firstly coastal dynamics, in particular the challenge of integrating understanding of coastal processes over a variety of spatial and temporal scales. Secondly a broader research interest in spatial analysis and applications of geographical information systems (GIS) and remote sensing, which extends beyond the realm of physical geography.</p>

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<p>Professor Burrell Montz</p> 	<p>Professor Burrell Montz Geography, planning and Environment East Carolina University, USA Email: MONTZB@ECU.EDU</p> <p>Burrell E. Montz is Professor in the Department of Geography, Planning, and Environment at East Carolina University and she is Co-Director of ECU's Natural Resources and the Environment Research Cluster. She received her BA from Mary Washington College, her MS from Oklahoma State University, and her Ph.D. from the University of Colorado. Her academic record includes eleven books and edited monographs, over 80 research papers and proceedings, a dozen book chapters, and 40 grants for research, from federal, state and private sources. Her research has documented the effects of flooding on property values, perceptions of risk and responses to warnings, sources and management options for water pollution, and the vulnerability of communities. Her recent work centers on the efficacy of National Weather Service products for various audiences.</p>
<p>Dr Vincent Odongo</p> 	<p>Dr Vincent Omondi Odongo Researcher at Department of Earth Sciences, Program for Air, Water and Landscape Sciences; Hydrology Uppsala University, Sweden Email: vincent.odongo@geo.uu.se</p> <p>Dr Vincent Odongo is a spatial hydrologist with research interests in applied research at the nexus of land use changes, as driven by socio-economic factors, and Earth Observation. His current research focuses on understanding and predicting the impacts of anthropogenic changes and climatic variability on the socio-ecohydrological systems of lake basins of international importance at local and global scales to support conservation and planning. Therefore, his work integrates diverse disciplines of ecohydrology, climate science, remote sensing, hydrology, land use changes, statistics and decision science to help answer the relevant questions.</p>
<p>Dr Olena Dubovyk</p>	<p>Dr Olena Dubovyk Scientific Coordinator of the Center for Remote Sensing of Land Surfaces (ZFL) University of Bonn, Germany Email: odubovyk@uni-bonn.de</p>

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	<p>Dr Olena Dubovyk has extensive research experience in the application of Earth Observation techniques for drought monitoring as well as agricultural monitoring and modelling. She has developed methods and tools to assess land degradation based on the multiple Remote Sensing data sources at different spatial scales including regional, provincial and field levels. Olena Dubovyk is currently a principle investigator of the project EVIDENZ (Earth Observation based information products for drought risk reduction on the national level) that aims to contribute to national monitoring systems in the field of drought risk and agriculture by applying the newly developed methods and processes information products. This research work is carried out s carried out by ZFL in collaboration with UNU-EHS and UN-SPIDER. Olena Dubovyk also teaches at Geography Department of the University of Bonn and has more than 15 peer-reviewed publications in the high-impact journals on the mentioned topic.</p>
<p>Dr Michal Miś</p> 	<p>Dr Michal Mis Simulation Engineer Henrob Self-Pierce Riveting, Atlas Copco IAS UK Limited United Kingdom Email: Michal.Mis@atlascopco.com</p> <p>Dr Michał Miś is a Simulation Engineer at Atlas Copco Industrial Assembly Solutions Henrob Ltd. Dr.Michał's industrial role revolves around numerical simulations of the SPR process and associated equipment. Currently, Michał is involved in collaboration with multiple research institutions in the whole of Europe. The previous work of Dr Michał is associated with ERDF TEM project aiming in the provision of state aid support to SMEs in the region. He investigated advanced production methods with special focus on Superplastic Forming, Additive Manufacturing and synthesis of WC powder alloys. He was involved in collaboration with industry around production processes of various elements.</p> <p>His experience includes FEA, CFD, additive layer manufacturing, diffusion bonding, synthesis of WC powders, metals forming, high-performance computing, virtual reality and various materials analysis methods.</p>
<p>Mr Steven Forrest</p>	<p>S.A. Steven Forrest, MA PhD Researcher 'Flood Resilience' Faculty of Spatial Sciences University of Groningen The Netherlands</p>

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Mr Steven's PhD research focuses on flood resilience in the Netherlands and the United Kingdom. This research analyses the interactions between different actors at the local level, and the roles/responsibilities of the local state, civil society and the market in flood resilience. His research in the Netherlands explores pluvial flooding in urban areas and the roles/responsibilities of local actors and members of the community. The research in the UK (predominantly in England) focuses on the influence of local actors and 'flood groups' (civil society organisations) on community resilience to flooding. The institutional, social and legal tools/arrangements influencing flood resilience at the local level will be analysed in both instances. His previous role was as an environmental/social sciences consultant in London where his projects included work on community flood resilience, flood risk communication, policy evaluation, and in assessing the social impacts of energy infrastructure. He was awarded the Sustainable Society Impact Award in 2016 for this video explaining my research using Lego: www.bitly.com/floodresilience

Dr Servel Miller



Dr Servel Miller

Senior Lecturer and Combined Honours Natural Hazard Management Programme Leader

Geography and International Development,
 University of Chester, United Kingdom

Email: s.miller@chester.ac.uk

Dr Servel Miller is a Geoscientist with a particular interest in the development and application of Geographical Information Systems (GIS) on Natural Hazard Management. His research has focused mainly on regions of the Caribbean and United Kingdom, investigating the impact that major catastrophes (such as earthquakes, floods, hurricanes, landslides, tsunami and volcanoes) have on the development of cities, the economy and the environment. Beyond his work in the Natural Hazard Management field, he is also an active researcher into the role of mobile technologies (e.g. social media) on students' learning.

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