



HYBRID EMERGENCY SPECIAL SESSION ON, “BUILDING CLIMATE RESILIENT HEALTHCARE INFRASTRUCTURE: POST DISASTER SCENARIO IN PAKISTAN”.

17TH October, 2022, Karachi, Pakistan
(11.00 am- 1.30 pm)



Co-organized by

**Pakistan Academy of Sciences (PAS,
Sindh Chapter),
International Center for Chemical and
Biological Sciences (ICCBS),
Sindh Innovation Research, and Education
Network (SIREN),
and
Avoidable Deaths Network (ADN)**

Background:

Pakistan is experiencing its worst humanitarian crisis in decades, spurred by extreme torrential rainfall and devastating flash floods. The most widespread flooding in the 73-year history of Pakistan has left one-third of the country underwater and parts resembling “a small ocean.” The floods have impacted over 36 million people; almost 1,600 people have died, including 615 children, more than 12,800 are injured, and 7.9 million are displaced. More than 2 million houses have been affected, comprising over 767,000 houses destroyed and nearly 1.3 million houses damaged. Authorities warn the flood waters could take up to six months to recede.

Pakistan has faced some major disasters before this including flood (2010) and earthquake (2005). The 2010 monsoon flood disaster in Pakistan was massive and unprecedented, killing more than 1,700 persons, affecting over 20 percent of the land area, more than 20 million people, and causing loss of billions of dollars through damages to infrastructure, housing, agriculture and livestock, and other family assets. On the 8th of October 2005, an earthquake of 7.6 magnitude had struck the Himalayan region of northern Pakistan and Kashmir. There were more than a million deaths, and over 3.5 million people rendered homeless.

In current floods, there were many hospitals and basic healthcare units and other health care facilities that became non-functional because they were in flood hit areas and infrastructure was not designed to handle a calamity of this nature. The entire healthcare system was not capable of handling post flood pandemics, epidemics and other serious issues.

In view of the above facts, a hybrid webinar on, “Building Climate Resilient Healthcare Infrastructure- Post Disasters Scenario in Pakistan” is organized at Dr. Panjwani Center for Molecular Medicine and Drug Research (PCMD, International Center for Chemical and Biological Sciences, University of Karachi, Karachi-75270, Pakistan, in collaboration with Pakistan Academy of Sciences, and Avoidable Deaths Network (ADN) on the 17th of October 2022.

AIMS AND OBJECTIVES

Building climate resilient healthcare infrastructure in the face of increasing numbers of climate-related disasters.

- What are the essential ingredients for a climate-resilient healthcare system in resource-poor context?
- What are the future scenarios for a healthcare system affected by climate-related hazards such as floods, earthquakes, heatwaves, etc?

- What are the barriers and opportunities for disaster preparedness and access to healthcare as climate-related hazards continue to increase and intensify?.
- What lessons can be learned from the current floods in Pakistan?

PROGRAM	
October 17 th , 2022	
11:00-11:05	<ul style="list-style-type: none"> • Welcome remarks by Dr. Nimra Iqbal (Auckland University, New Zealand) • Introduction of ADN by Dr. Hideyuki Shiroshita (virtual) • Introduction of PAS by Prof. Dr. M. Wasay (Pakistan Academy of Sciences, Pakistan)
11:05-11:25	Dr. Bilal Anwar, CEO, National Disaster Risk Management Fund (NDRMF) “Systematic overview of health management systems facing disasters”.
11:30-11:50	Lecture by Prof. Dr. M. Wasay, “Healthcare Challenges in Disaster Refugees”
11:55-12:25	Plenary Lecture (virtual) by Prof. Michael Petterson, “Redefining ‘Extreme’ with Respect to Disasters in Pakistan and Setting the Science in a Societal Context”.
12:30-12:45	Lecture (virtual) by Prof. Dr. Nibedita S. Ray Bennett, “RHCC Model To Promote Disaster Resilience at Primary Health Care Level”
12:50-01:05	Lecture (virtual) by Prof. Dr. Ghazna Khalid, “Women’s Health Issues in Disaster Areas”
01:05-01:30	Q&A; interactive discussion Concluding Remarks (Dr. Humaira Zafar-ICCBS)

Venue: Latif Ebrahim Jamal National Science Information Center (LEJ), International Center for Chemical and Biological Sciences, University of Karachi, Karachi-75270, Pakistan.

REGISTRATION

Topic: HYBRID EMERGENCY SPECIAL SESSION ON, “BUILDING CLIMATE RESILIENT HEALTHCARE INFRASTRUCTURE- POST DISASTERS SCENARIO IN PAKISTAN

Time: Oct 17, 2022 11:00 AM Islamabad, Karachi, Tashkent

FOR REGISTRATION USE THE GIVEN LINK:

<https://bit.ly/3BCRHCIIPDSP-SIREN>

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Co-organizers:

Prof. Dr. Muhammad Wasay

Secretary Sindh Chapter

Pakistan Academy of Sciences (PAS)

Dr. Nimra Iqbal

Avoidable Death Network (ADN), UK

Auckland University of Technology

Distinguished Speakers



Prof. Dr. Michael Petterson

Auckland University of Technology |

AUT · School of Applied Science

Bachelor of Science (Geology, First Class)
University of Leicester, UK, PhD
Geochemistry, Leicester

Prof. Petterson is a full professor at Leicester & AUT Auckland Universities and an Honorary Professor at USP, Fiji. He has been Director of the Geoscience Division of SPC, Fiji working in 22 Pacific Island Countries and Assistant Director, British Geological Survey. He is a researcher, writer, leader/manager and academic. Prof. Petterson have worked in international development, Geological Surveys and universities for most of his career. He has lived in 6 countries and worked in over 50 countries.



Dr. Bilal Anwar

CEO of the National Disaster Risk
Management Fund

Dr. Bilal Anwar is an International Climate Policy and Sustainable Development Professional with a reputation as a leading technical expert, with over two decades of diverse experience in the field of climate change. Since 17 January 2022, Mr. Anwar has been appointed as the *CEO of the National Disaster Risk Management Fund*, registered under Section 42 of the Companies Act, to provide funding to government and non-government entities, in undertaking risk reduction activities, against

natural calamities and climate-induced risks, to make Pakistan resilient against disasters.



Prof. Dr. Mohammad Wasay

Secretary Karachi Chapter

Pakistan Academy of Sciences (PAS)

Dr. Wasay is currently a Professor of Neurology at Aga Khan University, President - Pakistan Society of Neurology, Chairman - advocacy and awareness task force of World federation of Neurology, Editor- Pakistan Journal of Neurological sciences, Chief Editor- Jahan e Aasab (Neurology public awareness magazine), Interim Director- Clinical Trials Unit and Chair- FHS research committee at Aga Khan University.



Dr. Nibedita S. Ray Bennett

Associate Professor in Risk Management
University of Leicester

The ADN was founded by Dr. Nibedita S. Ray-Bennett (Associate Professor in Risk Management, University of Leicester) and Dr. Hideyuki Shiroshita (Associate Professor in Disaster Education, Kansai University) in 2018, and officially launched at the Global Alliance of Disaster Research Institutes (GADRI) in Kyoto on the 12th of March 2019. Dr Ray-Bennett's expertise focuses on the complexities around disasters and vulnerability in order to reduce deaths, and develop intervention packages to improve the quality and availability of post-abortion care during a major disaster informed by evidence-based research.



Prof. Dr. Ghazna Khalid

Technocrat and Social Activist
Gynecologist

Prof. Dr. Ghazna Khalid is a Pakistani technocrat, social activist, an internationally acclaimed gynaecologist and health expert. She is advisor on maternal and child health to the KPK Department of Health. She is a technical advisor to the Federal Ministry of National Health Regulations and Services in Islamabad. She has served as a member on the Covid-19 task force in the Federal Ministry of Science and Technology.

Organizing Partners

Pakistan Academy of Sciences



PAS is a premier organization of Scientists that is striving to promote higher education and Research in Scientific disciplines which includes both pure and applied sciences. It also formulates the standard of scientific efforts. PAS Fellows are a pool of the highest scientific talent in the country, they all have excelled in their respective fields as is shown by the fact that their achievements are well recognized by the Government.

Avoidable Deaths Network



The Avoidable Deaths Network (ADN) is a diverse, dynamic, inclusive and innovative global membership network dedicated to avoiding human deaths from natural hazards, naturally triggered technological hazards and human-made disasters in low- and middle-income countries.

International Center for Chemical and Biological Sciences (ICCBS)



The International Center for Chemical and Biological Sciences (ICCBS) is one of premier research establishments in the developing world. Its reputation for scientific research and training extends far beyond the country's borders. ICCBS emerged from generous support of private sector, and sustained by the governments grants. In the last 51 years has earned major recognition from Pakistan, apart from training thousands of young researchers from home and abroad in frontiers areas of science and technology.

Sindh Innovation, Research, and Educational Network (SIREN)



Sindh Innovation, Research, and Educational Network (SIREN) project is sponsored by Government of Sindh and implemented by L. E. J. National Science Information Center, International Center for Chemical and Biological Sciences (ICCBS), University of Karachi, Pakistan. SIREN aim is to promote quality education system in Sindh, (Pakistan). SIREN has linked universities of Sindh, by modern technologies through focal center, L.E.J. NSIC, ICCBS as a seamless learning and research platform.

