

# SHARING EXPERIENCE

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# Photo Courtesy:

Ar. Hafizur Rahaman, for the computer-generated image of the Paharpur monastery at the cover page and the screenshot of photo processing, at page 8.

Ar. Nilan Cooray for the photo of the Ena de Silva House at cover page & page 9.

Ar. Alessio Re for the photo of the Stupinigi Royal Palace in Turin, at the cover page and page 10.

Ar. Saif Ul Haque for the photo of the National Library, Dhaka at the cover page, and at page 11.

Afreen Ahmed Rochona for the photo of Ar. Saif Ul Haque at page 11.

Ar. Abu Sayeed M Ahmed for the photo of the Baro Sarder Bari ,Sonargaon, at the cover page and at page 12.



**Ar. Jalal Ahmed** President, IAB

Institute of Architects Bangladesh (IAB) is pleased to initiate this IAB Heritage Platform: Sharing Experience during this COVID-19 lockdown situation. Most of us are more or less professionally affected due to this lockdown situation. At the same time this has given us a great opportunity to share quality time with our families. It is also a good time to learn and share experiences online with professional colleagues. Realizing the importance of heritage in our profession, while amending the Constitution of IAB in 2013, it has introduced the position of a Secretary Heritage and Culture. Ever since then IAB is initiating different activities related to heritage conservation and generating awareness among the architects and the relevant stakeholders. I hope that these two days of 'Sharing Experience" initiative of IAB during this lockdown will be able help the interested architects and heritage professionals through interaction with the experts in the field.

I would also like to express my sincere gratitude and thanks to the six eminent architects and academicians for sharing their thoughts and expertise with the architects by accepting the invitation to join this 'Heritage Platform' of IAB.



**Ar. Mohammad Sazzad Hossain**Secretary, Heritage and Culture, IAB

IAB HERITAGE PLATFORM is an initiative of the Institute of Architects Bangladesh (IAB) to promote events for sharing knowledge and experiences in the field of heritage and conservation. IAB HERITAGE PLATFORM: SHARING EXPERIENCE is an online event, specially designed to continue the heritage-related activities during the COVID 19 pandemic situation.

The Demonstration Session focuses on Virtual Heritage and Photogrammetry which refer to the computer visualization of heritage sites or virtual reality environments. The session will include lectures and an interactive session to demonstrate the basics of Photogrammetry by using free and open-source software (FOSS).

In the presentation session on Conservation and Management of Cultural Heritage, experts will give a presentation with a focus on their observation and experience related to Conservation and Management of Cultural Heritage. The session will also include examples of heritage- related practices in different part of the world.

Hope the event will be interesting to the participants.

# Demonstration Session: An Introduction to Virtual Heritage & Photogrammetry

Friday, 29 May 2020: Uploading the reading-material & links at Google classroom Saturday 30 May 2020, 19:00 -20:30 Bangladesh time / 13:00-14:30 (GMT). Online

Opening speech - Ar. Jalal Ahmed, President, IAB

# Lecture on "Virtual heritage in an age of virtual travel"

- Prof. Erik Champion, Ph.D. UNESCO Professorial Chair in Cultural Heritage & Visualisation Curtin University, Australia.

# Demonstration on "Cultural Heritage and Photogrammetry: An introduction to Free and Open Source Software"

- Ar. Hafizur Rahaman, Ph.D. UNESCO Research Fellow Curtin University, Australia.

The demonstration session is for beginner to intermediate user, to show the step-by-step process of creating detailed and accurate 3D models of existing heritage sites and artefacts with Photogrammetry by using free and open-source software (FOSS). Following the process, participants will be able to re-create an accurate, proportionate and textured 3D model of real-world objects; while saving a significant amount of time with compare to a manual/traditional method. In this session, the participants will learn how to photograph objects systematically followed by a demonstration on processing the photos to get 3D point cloud and 3D model (using Regard3D), editing and texturing the 3D model (using MeshLab), and storing and sharing them in online web-platforms. It will explore some alternative pathways and provide tutorial document for later practise.

# Session chair.

- Ar. Mohammad Sazzad Hossain Secretary, Heritage and Culture, 23rd EC, IAB

# Presentation session: Conservation and Management of Cultural Heritage

Sunday, 31 May 2020, 19:00 -20:30 Bangladesh time / 13:00-14:30 (GMT). Online

Welcome speech - Ar. Jalal Ahmed, President, IAB

#### Adaptive Reuse as a Conservation Intervention: Some experiments from Sri Lanka

- Ar. Nilan Cooray, Ph.D. Conservation Architect, Sri Lanka

# Heritage conservation and management in UNESCO designated sites

-Ar. Alessio Re, Ph.D. Heritage conservation and management expert, Italy

# **Preserving the Legacy of Muzharul Islam**

-Ar. Saif Ul haque Architect, Bangladesh

# **Unfolding the Past: Conservation of Baro Sarder Bari at Sonargaon**

-Ar. Prof. Abu Sayeed Ahmed, Ph.D Conservation Architect, Bangladesh

# Session chair:

- Ar. Mohammad Sazzad Hossain Secretary, Heritage and Culture, 23rd EC, IAB



Prof. Erik Champion, Ph.D.

Professor Erik Champion is the UNESCO Chair of Cultural Heritage and Visualisation, and Professor at Media, Creative Arts and Social Inquiry, Faculty of Humanities, Curtin University, Perth, Australia. The purpose of the Chair is to promote an integrated system of research, training, information and documentation on virtual heritage sites and facilitate collaboration between high-level, internationally-recognized researchers throughout the world. Professor Erik is CIC Visualisation Theme Leader and Steering Committee member at the Curtin Institute for Computation. He was previously Project Leader of DIGHUMLAB Denmark, and before that was Director of Research and Postgraduate Studies at the Auckland School of Design, Massey University, in New Zealand. His recent books include Organic Design in Twentieth-Century Nordic Architecture (Routledge, 2019), Critical Gaming: Interactive History and Virtual Heritage for Routledge's Digital Research in the Arts and Humanities Series (2015), Playing with the Past (Springer, 2011). He also edited The Phenomenology of Real and Virtual Places (Routledge Studies in Contemporary Philosophy series, 2018), and Game Mods: Design, Theory and Criticism (ETC Press, 2012) and Cultural Heritage Infrastructures in Digital Humanities (Routledge, 2017).



Being an Architect with experiences in 'Digital/Virtual Heritage' Dr Hafizur Rahaman is working and researching ways for interpretation and dissemination of cultural heritage through immersive media. His tertiary education includes a PhD (NUS, 2012), M.Arch. (KU, Leuven, 2002) and B.Arch. (Khulna University, 1998). Dr Hafizur has more than 15 years of teaching and research experience in the broad area of design (built environment) and have specialised skills on Augmented/Virtual/Mixed Reality, 3D modelling, photogrammetry, 3D representation, interaction design and user evaluation. His research has been published in various reputed journals and cited worldwide. He is a founding member of ICOMOS Bangladesh and winner of four international awards for his research and publications. Presently, Dr Hafizur is working at Curtin University, Australia as a UNESCO Research Fellow; assisting the 'UNESCO Professorial Chair in Cultural Heritage & Visualisation' in developing an integrated system for long-term preservation, use and visualisation of 3D cultural heritage models.

His full profile is available at https://staffportal.curtin.edu.au/staff/profile/view/Hafizur.Rahaman/



Dr. Nilan Cooray is a chartered architect and a heritage conservationist by profession. He obtained his undergraduate and postgraduate training in both Architecture and Conservation from University of Moratuwa, Sri Lanka. His doctoral studies carried out at Delft University of Technology in the Netherlands analyzes the architectural composition of the landscape design of Sigiriya with a particular emphasis on the design tools and techniques employed, and the design principles and rules applied by the designers in the royal complex and utilizes the results of the analysis to make recommendations to conserve its total landscape from a heritage point of view. Dr. Cooray has more than 30 years of experience in managing and conserving architectural heritage in various capacities in Sri Lanka since 1989. He has also served as an international expert/consultant for a number of projects in several countries in South Asia, Southeast Asia and Africa, funded or executed by UNESCO, ICOMOS, World Bank, Asian Development Bank and the European Union.



Dr. Alessio Re is an Architect and Cultural heritage management-expert. He is the Secretary-General of the Santagata Foundation and consultant of UNESCO and ITC-ILO. He is also an adjunct professor at the University of Turin and at the University of Pisa and coordinates different International Masters programs and workshops. Dr. Re worked as a consultant for UNESCO in Italy, Serbia, Montenegro, Iran, Greece, Cambodia, and Pakistan, where he is currently coordinating the international team for the preparation of an integrated management plan for the Sikh Sites in Lahore. Mr. Re also coordinated the management plan of the Monviso Transboundary Biosphere Reserve (2015), the Port Louis Local Economic Development Plan (Mauritius, 2016), the Rolli Palaces management plan in Genoa. He also worked on the management plans of the UNESCO sites of Naples, Alberobello and Langhe/Monferrato. He supervised the H.I.A. of Kotor in Montenegro (2017) and was a consultant to the Ministries of Culture and Tourism of Serbia (2014); Seychelles (2016); Mauritius (2016). Dr. Re has professional experiences in Azerbaijan, China, Cyprus, Egypt, and France. He edited the volumes "Evaluating the management of UNESCO sites" (2012) and "UNESCO CLUSTERS" (2016).



Saif Ul Haque (b. 1958, Dhaka) is the Principal of Dhaka based architectural practice Saif Ul Haque Sthapati (SHS) and Director Research and Design Program at the Bengal Institute for Architecture, Landscapes and Settlements also at Dhaka, Bangladesh. He studied architecture at the Bangladesh University of Engineering and Technology and is involved in practice, research and education. His works include residential, institutional and industrial facilities at different locations in Bangladesh and have been published and exhibited in and outside Bangladesh. Some of the works have also received awards at home and abroad and his recent work Arcadia Education Project is the recipient of Aga Khan Award for Architecture 2019. He has been a visiting faculty and reviewer at various institutions. His research interests include environment, architecture and urbanism and has written on these topics.



Dr. Abu Sayeed M Ahmed is the Dean, Faculty of Environmental Science and Design, University of Asia Pacific, Dhaka. He graduated from BUET, Dhaka and obtained Master's and Doctorate degree in Architecture from University of Karlsruhe, Germany. Architect Ahmed's professional experience involves architectural works in Dhaka, as well as in Germany, where he was involved in the design of various projects. His conservation related works include his role as National Consultant-Architecture (2011-12) by UNESCO for capacity building and training for management of World Heritage Site in Bangladesh, while currently he is engaged with several restoration projects in Bangladesh. He is actively involved in the Heritage protection and preservation movement in Bangladesh.

Prof Ahmed was the Chairman for ARCASIA committee for Architectural Education (2011-2012), Vice president of ARCASIA Zone A (2017-18) and President (elect) of ARCASIA. He served as the President of the Institute of Architects Bangladesh (2013-14 and 2015-16).



Ar. Mohammad Sazzad Hossain

Mohammad Sazzad Hossain is the Secretary, Heritage, and Culture, IAB. He is also an Associate Professor at the Department of Architecture at MIST, a former visiting professor at Charles University (CZE) and a former visiting scholar at the University of Padua (IT). With an academic and professional background in Architecture, Heritage and Conservation, he has been representing Bangladesh in supranational structures and institutions. He serves as a member of the ICOMOS-International Committee on Training (CIF), ICOMOS Bangladesh, IUCN, EMA and ARCASIA Heritage Preservation workgroup. He is actively involved in different projects and activities of UNESCO and ICOMOS. He participated at a number of international conferences, seminars and events. His research-based articles are published in a number of reputed journals and books.