

# BANGLADESH ACADEMY OF SCIENCES

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22 June 2025

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Ref: BAS-SCAC 2024/823

Date: 07/10/2024

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16/10/24

REQUEST FOR DISSEMINATION OF INFORMATION REGARDING SCAC

**Dear Researcher/ Administrator,**

It is our pleasure to inform you that the Bangladesh Academy of Sciences (BAS) and Science Council of Asia (SCA) are jointly organizing the 23<sup>rd</sup> SCA Conference 2024 to be held from 30 November-02 December 2024 at the National Science & Technology Complex, Agargaon, Dhaka-1207. The Theme of the Conference is "Fourth Industrial Revolution and Future Society". The conference provides a unique multidisciplinary opportunity for the scientists to exchange views and ideas among themselves.

We are now sending the printed version of the Announcement of the conference for your kind attention. We will be grateful if you kindly support the organization of the conference through dissemination and display of the Announcement through all possible avenues. The pdf versions of the documents will also be made available in the BAS website ([www.bas.org.bd](http://www.bas.org.bd)).

We will be further obliged if you kindly encourage and support your colleagues/students (specially the younger ones) to participate actively in the conference.

Looking forward to your active participation in the event.

**Prof Dr Liaquat Ali**  
Fellow, BAS  
& Organizing Secretary  
23<sup>rd</sup> SCA Conference 2024

# 23<sup>rd</sup> SCAC

SCIENCE COUNCIL OF ASIA CONFERENCE

## FOURTH INDUSTRIAL REVOLUTION AND FUTURE SOCIETY

**A Hybrid Event with Options for  
Physical and Virtual Participation**

**30 November - 02 December 2024  
Dhaka, Bangladesh**

Organized by



**Bangladesh Academy of Sciences**  
Dhaka, Bangladesh



**Science Council of Asia**

Supported by



**Ministry of Science & Technology**  
Govt. of the People's Republic of Bangladesh

## Organizing Committee

### Chair

Emeritus Prof Dr AK Azad Chowdhury

### Members

Prof Dr Zahurul Karim

Prof Dr Choudhury Mahmood Hasan

Prof Dr ZN Tahmida Begum

Prof Dr Haseena Khan

Prof Dr M Shamsheer Ali

Prof Dr Mesbahuddin Ahmed

Emeritus Scientist Dr Firdausi Qadri

Representative from the Ministry of Science & Technology

### Organizing Secretary

Prof Dr Liaquat Ali

### Co-organizing Secretary

Prof Dr Yearul Kabir

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Prof Dr M Shamsheer Ali

### Members

Prof Dr ZN Tahmida Begum

Prof Dr Zeba Islam Seraj

Prof Dr Mirza Hasanuzzaman

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Prof Dr MA Rashid

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Prof Dr Samia Subrina

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### Chair

Prof Dr Shariff Enamul Kabir

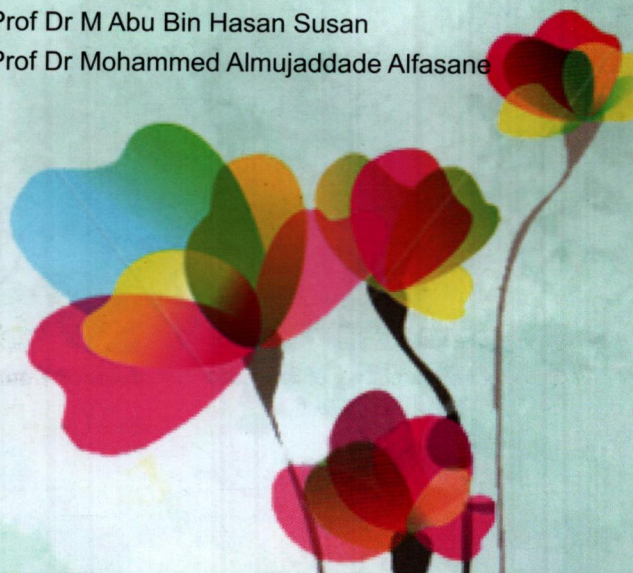
### Members

Prof Dr Anwar Hossain

Prof Dr Md Abdul Alim

Prof Dr M Abu Bin Hasan Susan

Prof Dr Mohammed Almujaaddade Alfasane



## Invitation

The Fourth Industrial Revolution (FIR) has already become a buzzword. However, the exact nature of the revolution as well as its present and future impact on human civilization are still not clear to many people including some professionals in the relevant sectors. Many of the areas of human endeavor are now dominated by technologies like Robotics, Artificial Intelligence, Virtual Reality, 3D Printing, Biotechnology, Blockchain, and the Internet of Things. However, the process of successful implementation of these modern technologies is highly context-specific and it demands a critical appreciation of the norms, cultures, value systems, and political as well as economic realities of the country. In the background of phenomenal enhancement in the quantitative and qualitative aspects of productivity, there will be substantial challenges and risks related to automation as well as ethical aspects of the revolution.

Asia is one of the fastest-growing regions of the world regarding FIR. However, development in this region\* is highly heterogeneous, and, at present, many of the countries are lagging due to a lack of skilled human resources, large-scale investment, modern infrastructure, adverse sociopolitical culture, and ineffective public policy. Time is now extremely crucial to initiate discussion on various dimensions of the FIR so that the outcome of the transformation can be harnessed with the best possible productivity as well as equity and human values. Collaboration among regional countries is central to achieving optimum success in this area and this needs intensive discussion and interaction among the relevant professionals and policymakers from around the region. Accordingly, the Theme of the 23rd Science Council of Asia Conference, to be held in Dhaka during 2024, has been fixed as 'Fourth Industrial Revolution and Future Society'.

The Bangladesh Academy of Sciences (BAS), as the local organizer, extends a cordial invitation to the relevant professionals and stakeholders to attend the Conference.

**Prof Dr Haseena Khan**

*Secretary*

Bangladesh Academy of Sciences

**Emeritus Prof Dr AK Azad Chowdhury**

*President*

Bangladesh Academy of Sciences

**Prof Dr Liaquat Ali**

*Organizing Secretary*

23rd Science Council of Asia Conference

**Prof Dr Zahurul Karim**

*Chair, Program Committee*

23rd Science Council of Asia Conference



## Important Dates

Last Date of Registration	01 November 2024
Closing Date of Abstract Submission	20 October 2024
Notification about Abstract Acceptance	30 October 2024
23rd SCA General Assembly and Conference	30 November - 02 December 2024

### Conference Dates

30 November - 02 December 2024 (Saturday-Monday)

### Venue

National Science & Technology Complex  
Agargaon, Dhaka, Bangladesh

### Theme

**Fourth Industrial Revolution and Future Society**

### The Program will include

- a. Theme Lecture
- b. Plenary Lecture
- c. Keynote and Invited Lectures in Parallel Scientific Sessions on 3 Subthemes namely
  - 1) Technology
  - 2) Implementation Process
  - 3) Social Impact
- d. Future Earth Symposium
- e. Symposium on Food Security
- f. ISC Symposium on International Science Council - Developments and Opportunities
- g. Panel Discussion
- h. Round table discussion with industrialists, entrepreneurs, and other stakeholders
- i. Young Researchers' Session
- j. Free Papers (Posters)
- k. Parallel Industrial Exhibition by relevant companies/projects
- l. Visits to selected technology-based companies/projects in Bangladesh



## Theme Lecture

**Prof Dr M Zahid Hasan**

*Eugene Higgins Professor of Physics at Princeton University*

*Visiting Professor of Physics at Massachusetts Institute of Technology (MIT), United States of America*

## Plenary Lectures

**Emeritus Prof Dr AK Azad Chowdhury**

*Bangladesh Academy of Sciences, Dhaka, Bangladesh*

**Prof Dr Emiko Usui**

*Institute of Economic Research, Hitotsubashi University, Tokyo, Japan*

**Dr Tahmeed Ahmed**

*Nutrition and Clinical Services Division, International Centre for Diarrhoeal Disease Research, Bangladesh (icddr,b), Dhaka, Bangladesh*

## Keynote and Invited Speakers

**Prof Dr M Shamsheer Ali**

*Bangladesh Academy of Sciences, Dhaka, Bangladesh*

**Prof Dr M Iqbal Choudhury**

*International Center for Chemical and Biological Sciences (ICCBS), University of Karachi, Karachi, Pakistan*

**Prof Dr Mark Tester**

*Dept of Plant Genetics, King Abdullah University of Science and Technology and CEO, Red Sea, Saudi Arabia*

**Prof Dr Tanusri Saha-Dasgupta**

*SN Bose National Centre for Basic Sciences, Kolkata, India*

**Prof Dr Haseena Khan**

*Bangladesh Academy of Sciences, Dhaka, Bangladesh*

**Prof Dr Mirjana Radović-Marković**

*University Business Academy, Serbia; Foreign Fellow, Bangladesh Academy of Sciences*

**Dr Kohei Nakano**

*The United Graduate School of Agricultural Science, Gifu University, Japan*

**Prof Dr Yuji Kishima**

*Plant Breeding, Graduate School of Agriculture, Hokkaido University, Japan*

**Prof Dr Atsushi Yokota**

*Executive Vice President, Hokkaido University, Sapporo, Japan*

**Prof Dipl-Des Ellen Bendt**

*Head of Study TP/Design, University of Hamburg, Germany*

**Prof Dr M Feroze Ahmed**

*Bangladesh Academy of Sciences, Dhaka, Bangladesh*

**Emeritus Prof Shahjahan Khan**

*University of Southern Queensland, Australia; and Asian University of Bangladesh*



**Dr Syed Arshad Hussain**

*Department of Physics, Tripura University, Suryamaninagar, Tripura, India*

**Prof Dr AKM Azharul Islam**

*Bangladesh Academy of Sciences, Dhaka, Bangladesh*

**Dr Yuichi Sakumura**

*Data Science Center, Nara Institute of Science and Technology, Ikoma, Japan*

**Prof Dr Mohammad A Rashid**

*Department of Pharmaceutical Chemistry, University of Dhaka, Dhaka, Bangladesh*

**Dr Kazushi Ikeda**

*Graduate School of Science and Technology, Ikoma, Japan*

**Prof Dr Avinash Dadhich**

*School of Law, Dhirubhai Ambani University, Gandhinagar, Gujrat, India*

**Prof Dr Zeba Islam Seraj**

*Department of Biochemistry & Molecular Biology, University of Dhaka, Dhaka, Bangladesh*

**Dr Sheikh Mohammad Fazle Akbar**

*Visiting Researcher, Oita University, Japan*

**Prof Dr Liu Jun**

*Department of Plant Pathology, College of Plant Protection, China Agricultural University, Beijing, China*

**Dr Munirul Alam**

*Molecular Ecology and Metagenomic Laboratory, International Centre for Diarrhoeal Disease Research, Bangladesh (icddr,b), Dhaka, Bangladesh*

**Dr Pulasthi Gunawardhana**

*Department of Information and Communication Technology, Faculty of Technology, University of Sri Jayewardenepura, SriLanka*

**Prof Dr M Tofazzal Islam**

*Institute of Biotechnology and Genetic Engineering (IBGE), Bangabandhu Sheikh Mujibur Rahman Agricultural University, Gazipur, Bangladesh*

**Dr Sameer Dixit**

*Centre for Molecular Dynamics Nepal (CMDN), Kathmandu, Nepal*

**Prof Dr Md Shajahan Kabir**

*Department of Rural Sociology, Bangladesh Agricultural University, Mymensingh, Bangladesh*

**Prof Dr Yoichi Ohiro**

*Dept of Oral and Maxillofacial Surgery, Hokkaido University, Sapporo, Japan*

**Prof Dr Kazi Matin Uddin Ahmed**

*Department of Geology, University of Dhaka, Dhaka, Bangladesh*

**Prof MA Basith**

*Department of Physics, Bangladesh University of Engineering & Technology, Dhaka, Bangladesh*

**Seeprata Parajuli**

*Quest International College, Pokhara University, Gwarko, Lalitpur, Nepal*



**Eric Kerr**

*Science, Technology and Society Cluster, Asia Research Institute, National University of Singapore*

**Prof Tan Wee Hoe**

*International Network for Governmental Science Advice (INGSA-Asia), International Science Council*

**Dr Shamim Ahmed Dewan**

*Chairman, Department of Robotics and Mechatronics Engineering, University of Dhaka, Bangladesh*

**Dr Kakon Nag**

*Globe Biotech, Dhaka, Bangladesh*

**Dr Mohammed Shameem**

*Drug Products Development & Delivery Tech, Regeneron Pharma, New York, USA*

**Prof Dr Mirza Hasanuzzaman**

*Department of Agronomy, Sher-e-Bangla Agricultural University, Dhaka, Bangladesh*

**Dr Shawkat Hossain**

*Biotech Plant, Incepta Pharmaceutical Ltd*

**Prof Dr Md Atiar Rahman**

*Department of Biochemistry & Molecular Biology, University of Chittagong, Chittagong, Bangladesh*

**Dr Bijoy Krishna Debnath**

*Department of Applied Sciences, School of Engineering, Tezpur University, Assam, India*

**Prof Dr Shaikh Jamal Uddin**

*Pharmacy Discipline, Khulna University, Bangladesh*

**Prof Dr Mustak Ahmed**

*Department of Mass Communication and Journalism, University of Rajshahi, Bangladesh*

**Prof Dr Mohammad Tofazzal Hossain Howlader**

*Former Head, Insect Biotechnology and Biopesticide Laboratory, Department of Entomology, Bangladesh Agricultural University, Mymensingh, Bangladesh*

**Dr Khurshida Pervin**

*Department of Business Administration, Prime University, Dhaka, Bangladesh*

**Prof M Khaled Hossain**

*Department of Biochemistry and Molecular Biology, Rajshahi University, Bangladesh*

**Prof M Manjurul Karim**

*Department of Microbiology, University of Dhaka, Bangladesh*





## **Symposium on Unlocking the scope of a Meta Network System in advancing SDGs in Asia**

Co-organized by **Future Earth**

### **Dr Anik Bhaduri**

*Director, Sustainable Water Future Programme (Water Future), Future Earth*

### **Emeritus Prof Dr Kazuo Nadaoka**

*Tokyo Institute of Technology; and Sustainability Initiative in the Marginal Seas of South and East Asia (SIMSEA)*

### **Dr Lourdes J Cruz**

*Future Earth Phillippines*

### **Dr Siwatt Pongpiachan**

*Future Earth Thailand*

### **Dr Raj K Singh**

*Indian Institute of Technology Bhubaneswar*

### **Dr Sruthi Subbanna**

*Science Policy Analyst, South Asia Hub, Future Earth*

## **Symposium on Food Security**

### **Prof Dr Michiko Ohkura**

*Professor Emerita, Shibaura Institute of Technology, Oshitate-Cho, Fuchu, Tokyo, Japan*

### **Prof Dr Zahurul Karim**

*Bangladesh Academy of Sciences, Dhaka, Bangladesh*

### **Prof Dr Mohammad Jahangir Alam**

*Dept of Agribusiness and Marketing, Bangladesh Agriculture University, Mymensingh, Bangladesh*

## **Young Researchers' Session: Expectation from 4th IR from the perspective of Young Researchers**

### **Introduction: Dr Yuki Monden**

*Graduate School of Environmental and Life Science, Okayama University, Japan*

## **Panel Discussion: Role of the Scientists to meet the Global Challenges through 4th Industrial Revolution**

**Panelists :** Prof Dr Muhammad Aslam Baig, *President, Science Council of Asia*

**Emeritus Prof Dr AK Azad Chowdhury**, *Vice-President, Science Council of Asia*

**Prof Dr M Iqbal Choudhury**, *Former Coordinator General, COMSTECH, OIC*

**Distinguished Prof Datuk Dr Looi Lai Meng**, *Academy of Sciences Malaysia*

**Dr Aimee Lynn A Barrion-Dup**, *National Research Council of the Philippines (NRCP), Phillipines*

**Prof Dr Shibusawa Sakae**, *Science Council of Asia*

**Prof Park Seung-Woo**, *National Academy of Sciences, Republic of Korea*

**Prof Dr Choudhury Mahmood Hasan**, *Bangladesh Academy of Sciences*

## General Information

### Climate

The weather in Dhaka at the end of November and beginning of December is usually very pleasant. Average day temperature is 25°C.

### Conference Venue

National Science & Technology Complex, Agargaon, Dhaka, Bangladesh.

### Language

English is the official language of the Conference.

### Visa

Citizens of most countries require visa for entry into Bangladesh. The local Bangladesh Embassy or Consulate may kindly be contacted.

### Currency

Taka (Tk) Conversion rate US\$= Tk 120 (approx.).

### Travels and Tours

Customized tours can be organized for foreign participants. Please contact the Conference Secretariat for further information.

### Suggested Options for Accommodation

For special rates and reservation Please contact the Conference Secretariat.



**Radisson Blu Dhaka Water Garden**

[md.nazrulislam@radisson.com](mailto:md.nazrulislam@radisson.com)



**Hotel Empyrean**

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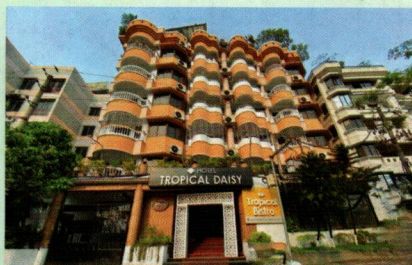
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**Hotel Bengal Canary Park**

[sales1@hotelcanarypark.com](mailto:sales1@hotelcanarypark.com)



**Hotel Tropical Daisy**

[info@hoteltropicaldaisy.net](mailto:info@hoteltropicaldaisy.net)



**Ambrosia Guest House**

[ambrosia1976@gmail.com](mailto:ambrosia1976@gmail.com)

## Registration Fees

### i. Physical participation

- a. Local Participants
- |                           |            |
|---------------------------|------------|
| General                   | BDT 2000/- |
| Students (Proof Required) | BDT 1000/- |
- b. Foreign Participants US \$ 100

### ii. Virtual participation

- a. Local Participants
- |                          |            |
|--------------------------|------------|
| General                  | BDT 1000/- |
| Student (Proof Required) | BDT 500/-  |
- b. Foreign Participants US \$ 50

## Closing Date for Registration : **01 November 2024**

For online registration, please use the Google Form (a Google account required) and follow the online instructions. For offline registration, please download and fill the Registration Form (photocopies acceptable), and send it to the Conference Secretariat with proof of payment.

The physically attending Participant's registration fee includes access to Scientific Programs, Publications, Reception, Tea/Coffee, Lunch, Dinner and other Social Programs (except personally arranged tours).

## Travel Grants/Allowances

A limited number of foreign participants will be provided with local hospitality (accommodation and food) and/or travel grants depending on the availability of funds. Last Date of Application: **30 October 2024**.

## Call for Abstracts (for Poster Presentation only)

Participants interested in presenting their original works in the Poster Sessions at the Conference are invited to submit abstracts by **20 October**.

## Instructions for Abstracts (Poster Presentation only)

The Abstract should be structured as a) Background and Objectives, b) Methods, c) Results, and d) Conclusions. The abstract should be within 350 words. The Presenting Author's name should be underlined. The presenting author's full contact address (including phone no. and e-mail must be given). The abstract may be submitted online using the relevant Google Form (a Google account will be required) or it can be submitted offline by sending it to the Secretariat through e-mail to <scaconference23@gmail.com>.

**Weblink : <http://event.bas.org.bd/index.php/SCAC23RD>**



## The Venue



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**Weblink : <http://event.bas.org.bd/index.php/SCAC23RD>**