

## WFEO-CIC ACHIEVEMENTS / OUTCOMES (2019-2023)

WFEO-CIC is dedicated to the field of 'Information and Communication' and has the responsibility to leverage the Information and Communication Technology Paradigm. The CIC fulfills the tasks allocated by WFEO in accordance with the United Nation's **Sustainable Development Goals No 9 and 11.**

The CIC is presently hosted by the Institution of Engineers India.

### MAIN THEMES COVERED IN THE PAST FOUR YEARS:

The CIC has planned that both the External and Internal Objectives as set out in the WFEO Strategic Plan (2019-2023) would be addressed through the Committee's objectives.

Essentially the work of the CIC is to be actively involved in propagating and assist in achievement of the SDGs. Specifically, the particular SDGs relevant in the context of CIC are:

**SDG 9 - Industry, Innovation and Infrastructure**

**SDG 11 - Sustainable Cities and Communities**

The pandemic has caused CIC to reorient plans and planned to hold programs virtually. The advantage of using digital platforms for conducting various events is the ability to reach out to large number of engineers spanning geographic boundaries and this is being given due impetus.

The CIC strives to spread awareness in different geographies on the significance of technological applications in developing sustainable cities and habitats. Also, the significance of innovations, especially in the context of developing countries in addressing local challenges, is sought to be highlighted.

KEY ACTIVITIES, MEETINGS AND PUBLICATIONS, ETC.
<b>Publications / Monographs</b>  <b>1. Monograph on "Digital Transformation – Industry 4.0 Paradigm"</b>  A Monograph titled "Digital Transformation – Industry 4.0 Paradigm" has been published in <b>December 2019</b> in the presence of Prof Gong Ke, President WFEO and widely disseminated. The monograph lucidly brings out the various components of Industry 4.0 and applications in various domains of engineering.

## 2. Edited Volume in the area of Ethics in Artificial Intelligence

An edited volume on the title 'Ethics in Artificial Intelligence: Bias, Fairness And Beyond' is finalized and under printing with Springer group of publications and will be released in **November 2023**.

### International Activities:

#### 1. WFEO-CIC Session concurrently with 36<sup>th</sup> Indian Engineering Congress

Hybrid WFEO-CIC Session on "Smart Technologies for Smart Cities" conducted on 27 **December 2021** at New Delhi concurrently with the 36th Indian Engineering Congress. The Session comprised of virtual speeches from Prof Gong Ke, President, WFEO and Dr Marlene Kanga, Past President, WFEO. A Keynote lecture on "Smart Technologies for Smart Cities" was also delivered on the occasion by Mr Mahesh Mahajan, Chief of Products – MindtreeNxt.

#### 2. WFEO-CIC Session concurrently with 37<sup>th</sup> Indian Engineering Congress

A WFEO-CIC Session was organized on 17 **December 2022**, between 15:45-16:45 (IST), concurrently with the 37th Indian Engineering Congress at Chennai. The session commenced with a brief address from Prof. Dr. José Vieira, President, WFEO followed by a keynote address by Mr. S S Rathore, Past President, IEI and Chair, WFEO-CIC on the topic "SDG 9 – Industry, Innovation and Infrastructure: Ahmedabad Metro Rail Project".

Keynote Address in WFEO-CIC parallel session on 'Big Data in Support of Digital Economy' Speaker: Mr. Mahesh Mahajan, Chief of Product, Mindtree NXT. Immediate WFEO Past President Prof Gong Ke was the co-chair of the parallel session.

### Technical Session / Webinars / Presentation

#### 1. World Engineering Day 2020

A presentation on "Smart Technologies-Adoption of Smart Cities" was prepared which was to be presented at the World Engineering Day, by IEI, in Paris in **March**

Studies in Computational Intelligence 1123

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Juhi Kulshrestha  
Abhijnan Chakraborty  
Srijan Kumar *Editors*

## Ethics in Artificial Intelligence: Bias, Fairness and Beyond

 Springer

**20.** The event was cancelled due to the pandemic. This presentation is on the WFEO Website

2. A Webinar on the subject “Satellite Applications in the Post Pandemic World” was organized by the CIC on 12 **November 2020**
3. A Webinar titled “Engineering Challenges in Gulf Countries” was held on 22 **January 2021**. The event flagged issues connected with engineering projects post-pandemic in the Gulf Region. This was conducted in collaboration with Kuwait Society of Engineers.
4. A Webinar entitled “Engineering for a Healthy Planet” was held on 13 **March 2021**. The program had eminent speakers and included a Session on the contribution of women in leadership roles. Speakers were from India, Qatar and Nepal.
5. Hybrid WFEO-CIC Session on “Smart Technologies for Smart Cities” conducted on 27 **December 2021** at New Delhi concurrently with the 36th Indian Engineering Congress. The Session comprised of virtual speeches from Prof Gong Ke, President, WFEO and Dr. Marlene Kanga, Past President, WFEO
6. A webinar on the theme “Green Technologies: Precursor for transition to Smart Sustainable Cities” conducted on 22 **February 2022** under the aegis of WFEO-CIC in association with The Institution of Engineers, Malaysia (IEM) involving eminent panelists from both the organizations.
- 7. WTISD 2022 celebration by Qatar Overseas Chapter in association with WFEO-CIC**

The Qatar Overseas Chapter of IEI in association with WFEO-CIC virtually celebrated the World Telecommunication and Information Society Day 2022 on 17 **May 2022** on the theme ‘Digital Technologies for Older Persons and Healthy Ageing’. Dr Sam Pitroda, Eminent speaker & considered by many as father of Indian Telecom Revolution was the Chief Guest on the occasion; Dr H O Thakare, President, IEI delivered the Presidential Address and Chair, WFEO-CIC delivered a keynote address on the occasion.

The Webinars were widely attended by engineering students, practitioners and academia.

**Reports:****1. Second UNESCO Engineering Report: Inputs by CIC**

The CIC prepared two sub-Chapters for the Second UNESCO Engineering Report titled “Engineering for Sustainable Development”. The two subchapters were “Engineering and Big Data” and “Engineering for Smart Cities”.

**Meetings**

The Indian delegations including WFEO representatives have attended WFEO Executive Board and Executive Council meetings and WFEO General Assembly and have been regularly attending other bilateral and multilateral events.

- Sufficient sponsors have been sought and obtained and as per our strategic plan involvement and dissemination of information this to students at no cost to them has been achieved in the seminars.
- The committee has been propagating the role of WFEO at every opportunity provided at these seminars.

The International Conference with Quality Council of India was finalized for 7th of September 2023. Unfortunately, the venue fell in the region which was later designated a high security area for the G20 meet in New Delhi on 8th and 9th Sept 2023, which was attended by the US President, Prime Ministers of United Kingdom & Canada and a host of world leaders and hence permission for our conference was refused. New date being finalized.