Taiwan-India 2022 Exchange Workshop and Symposium

on Intensifying the Connection of Sustainable Technology

September 04-06, 2022

jointly organized by

Research and Development Section (R&D)
Indian Institute of Technology Guwahati
&
National Science and Technology Council, Taiwan (ROC)

Venue: Indian Institute of Technology Guwahati
The scope of the Taiwan-India 2022 Exchange Workshop and Symposium on Intensifying the Connection of Sustainable Technology is to build a platform on applied semi-conductor technology, sustainable energy, sustainable polymers-based technologies, hydrogen economy and others sustainable technology in industrial and academic area between Taiwan and India. This workshop is in line with Taiwan's science and technology development policy, six major axes and 5+2 industrial innovation goals. This workshop is jointly organized by Research & Development Section, IIT Guwahati, India; National Science & Technology Council (NSTC), Taiwan; Feng Chia University, Taiwan; Taiwan-India Joint Research Centre on Artificial Intelligence, Taiwan, and Taiwan Chamber of Commerce Delhi (TCCD), India to create a win-win situation with more exchanges and cooperation opportunities between Taiwan and India.

**Thrust areas**

- Applied semi-conductor technology
- Sustainable energy
- Sustainable polymers-based technologies
- Hydrogen economy
- Agro and food technology
- Sustainable manufacturing
- Other sustainable technology

**Chair**

Prof. T. G. SITHARAM  
Director & Professor, Department of Civil Engineering,  
Indian Institute of Technology Guwahati (IIT-Guwahati), India

Prof. Chin-Tsan WANG  
Counsellor & Director, Science and Technology Division,  
Taipei Economic and Cultural Center in India, National  
Science and Technology Council, Taiwan (R.O.C.)  
Professor, National Ilan University, Taiwan

**Convenors**

Prof. Chyi-How LAY  
Feng Chia University, Taiwan

Prof. Vimal KATIYAR  
Dean, R&D,  
IIT-Guwahati, India

Prof. S. S. BAG  
Associate Dean, R&D,  
IIT Guwahati, India

Dr. Amit KUMAR  
Head, Centre for Sustainable Polymers, IIT-Guwahati, India

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Taiwan-India 2022 Exchange Workshop and Symposium  
on *Intensifying the Connection of Sustainable Technology*
Eminent Speakers

Dr. Rajiv KUMAR
Scientist E, Department of International Co-operation, DST, India

Prof. Sandeep VERMA
Professor, Department of Chemistry, IIT-Kanpur, India

Prof. Gautam BISWAS
Professor, Department of Mechanical Engineering, IIT-Kanpur, India

Dr. Sivaji CHADARAM
Vice Chancellor, Saveetha Institute of Medical and Technical Sciences, India

Dr. Suchandan PAL
Chief Scientist and Head, Semiconductor Sensors and Microsystems Group, CSIR, India

Dr. Thallada BHASKAR
Head of Materials Resource Efficiency Division, CSIR-Indian Institute of Petroleum Dehradun, India

Prof. Wei-Hsin CHEN
Chair Professor, Department of Aeronautics and Astronautics, NCKU, Taiwan

Prof. Chung-Jen TSENG
Professor, Department of Mechanical Engineering, National Central University, Taiwan

Prof. Meng-Hsueh CHIANG
Professor, Department of Electrical Engineering, National Cheng Kung University, Taiwan

Prof. Pao-Ann HSIUNG
Professor, Computer Science and Information Engineering, NCCU, Taiwan

Dr. Vinoth Kumar PONNUSAMY
Associate Professor, Kaohsiung Medical University, Taiwan

Prof. Yung Chin YANG
National Taipei University of Technology, Taiwan

Prof. Chen-Hao WANG
Professor, Department of Materials Science and Engineering, NTUST, Taiwan

Prof. Roy P. PAILY
Head, Dept. of Electronics and Electrical Engineering, IIT Guwahati, India

Prof. Vaibhav V. GOUĐ
Head, School of Energy Science and Technology, IIT Guwahati, India

Prof. Sanjukta PATRA
Head, School of Agro and Rural Technology, IIT Guwahati, India

Prof. Mihir Kumar PURKAIT
Dean, Alumni and External Relations, IIT Guwahati, India
Taiwan-India 2022 Exchange Workshop and Symposium
on Intensifying the Connection of Sustainable Technology

Eminent Speakers

Prof. Amaresh DALAL
Department of Mechanical Engineering, IIT Guwahati, India

Prof. Pralay MAITI
School of Materials Science and Technology, IIT BHU, India

Dr. Prodyut DHAR
School of Biochemical Engineering IIT (BHU), India

Dr. Tabli GHOSH
Department of Food Engineering and Technology, Tezpur University, Assam, India

Dr. Santosh KUMAR
Department of Food Engineering and Technology, CIT Kokrajhar, Assam, India

Taiwan & India Technology Industry Experiment Exchange Session

Mr. Pao-Dong CHEN
TAIWAN CHAMBER OF COMMERCE IN DELHI-INDIA (TCCD)

Mr. Jason HO
TAISYS TECHNOLOGIES CO. LTD., TAIWAN

Mr. Chung-Hsing WANG
Managing Director, CINDA Engineering & Construction Pvt. Ltd. (CINDA), TAIWAN

Dr. Yu-Jen HUANG
EVER-CLEAR ENVIRONMENTAL ENG. CORP., TAIWAN

Dr. Neeraj MATHUR
CMG-(R&D), OIL INDIA LIMITED, INDIA

Mr. Nikunja BORTHAKUR
NUMALIGARH REFINERY LIMITED, INDIA

Dr. Surendra Singh GAUR
HONEYWELL INTERNATIONAL, INDIA

New Venture Experiment Sharing Session

Prof. Pao-Ann HSIUNG
Professor, Computer Science and Information Engineering, NCCU, Taiwan

Prof. Chyi-How LAY
Agro-Bio Energy-economic Circulatory Community, Taiwan

Mr. Jason HO
Chairman, Taisys Technologies Co. Ltd., Taiwan

Mr. Ashish AHUJA
CEO, ShivOm Dayal Energy, India

Mr. Robert H TOUTHANG
Director, NCDC, Ministry of Cooperation, North East Regional Directorate, India
Day 0: September 4, 2022: *Welcome Dinner & Excursion*

Day 1: September 5, 2022

Taiwan-India 2022 Exchange Workshop and Symposium on Intensifying the Connection of Sustainable Technology

**Opening Ceremony**

- Prof. Dr. T. G. SITHARAM, Director of IIT-Guwahati
- Dr. Rajiv KUMAR, Scientist E, Department of International cooperation, DST
- Prof. Sandeep VERMA, Department of Chemistry, IIT-Kanpur, India
- Prof. Chin-Tsan WANG, Counsellor & Director, Science and Technology Division, Taipei Economic and Cultural Center in India, National Science and Technology Council, R.O.C. (Taiwan)
- Dr. Sivaji CHADARAM, Vice Chancellor, Saveetha Institute of Medical and Technical Sciences
- Prof. Sandeep VERMA, Department of Chemistry, IIT-Kanpur, India
- Prof. Chin-Tsan WANG, Counsellor & Director, Science and Technology Division, Taipei Economic and Cultural Center in India, National Science and Technology Council, R.O.C. (Taiwan)
- Dr. Sivaji Chadaram, Vice Chancellor, Saveetha Institute of Medical and Technical Sciences, India
- Shri Lakshmanan S, IAS, Secretary to the Government of Assam, Industries, Commerce & PE Dept., Assam
- Prof. Mihir Kumar PURKAIT, Dean, Alumni & External Relations, IIT Guwahati, India
- Prof. Vimal Katiyar, Dean, Research and Development, IIT Guwahati

**Progress of Indo-Taiwan Joint project (Taiwan)**

Prof. Chin-Tsan WANG, Counsellor & Director, Science and Technology Division, Taipei Economic and Cultural Center India, NST Council, R.O.C. (Taiwan)

**Progress of Indo-Taiwan Joint project (India)**

Dr. Rajiv KUMAR, Scientist E, Department of International Co-operation, DST

**Industrial Prospects in Assam,**

Shri Lakshmanan S, IAS, Secretary to the Government of Assam, Industries, Commerce & PE Dept., Assam

**E-poster for Indo-Taiwan joint project and others**

### Keynote Speakers

#### Session I
Chairman: Dr. Sivaji Chadaram

- **Applied Semi-Conductor Tech. & Communication (Taiwan)**
  - Prof. Meng-Hsueh CHIANG (online)
  - Director, Institute of Microelectronics Engineering, NCKU, Taiwan
- **Applied Semi-Conductor Tech. & Communication (IIT Guwahati)**
  - Prof. Roy P. PAILY
  - Head, Dept. of EEE, IIT Guwahati, India
- **Dr. Suchandan PAL**
  - Chief Scientist & Head, Semiconductor Sensors and Microsystems Group, CSIR, India
- **Hydrogen economy (Taiwan)**
  - Prof. Chung-Jen TSENG (online)
  - Distinguished Prof., Director, Center for Energy Research, Dept. of Mechanical Engineering, NCU-Taiwan

#### Session II
Chairman: Prof. Vimal Katiyar

- Prof. Sandeep VERMA
  - Dept. of Chemistry, IIT-Kanpur, Secretary of SERB, DST India
- Prof. Gautam BISWAS (online)
  - Professor, Dept. of Mechanical Engineering IIT-Kanpur, India
- Prof. Ram Sharan SINGH
  - Dept. of Chemical Engineering & Technology, IIT-BHU, India
- Prof. V. V. GOUD
  - Head, School of Energy Science and Technology, IIT Guwahati, India
- Prof. Amarendra DALAL
  - Dept. of Mechanical Engineering, IIT Guwahati, India

#### Session III
Chairman: Prof. Chyi-How Lay

- Prof. Wei-Hsin CHEN (Online)
  - Chair Professor, Dept. of Aeronautics & Astronautics, NCKU Taiwan
- Dr. Thallada BHASKAR
  - Head of Materials Resource Efficiency Division, CSIR-IITP Dehradun, India
- Prof. Pao-Ann HSIUNG
  - Computer Science and Information Engineering, NCCU, Taiwan
- Assoc. Prof. Vinoth Kumar
  - PONNUSAMY (Online)
  - Dept. of Medical University & Applied Chemistry, KMU-Taiwan
- Prof. Sanjukta PATRA
  - Head, School of Agro and Rural Technology, IIT Guwahati, India
- Prof. Pralay MAITI
  - School of Materials Science and Technology, IIT BHU, India

**Cultural Programme**

- Brainstorming session on sustainable manufacturing chaired by Dr. Vipin Shukla, DSIR, India
### Day 2: September 6, 2022

**Taiwan and India Technology Industry Experiment Exchange Session**

*Chairman: Dr. Pao-Dong CHEN*

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<td>CEO, Jason Ho</td>
<td>SCGM (Corporate Affairs), Mr. Nikunja Borthakur</td>
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<td>CINDA Engineering &amp; Construction Pvt. Ltd. (CINDA)</td>
<td>Oil India Limited, India</td>
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<td>CGM-(R&amp;D), Dr. Neeraj Mathur</td>
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<td>FINER, India</td>
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<td>Dr. Yu-Jen Huang</td>
<td>Mr. Pabitra Boragohain</td>
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<td>Delta Electronics, Inc., Taiwan (Online)</td>
<td>President</td>
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**Round Table Discussion**

**Panel Discussion**

### New Venture Experiment Sharing Session

*Chairman: Prof. Pao-Ann HSIUNG*

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<td>Eco-Energy Technology Co. Ltd., Taiwan (Online)</td>
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<td>General manager Ray Lin</td>
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<td>Federation of Industry &amp; Commerce of North Eastern Region (FINER), India</td>
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**Panel Discussion**

**On-site Visiting Session**

**Visiting Centre for Sustainable Polymers and Centre for Nanotechnology, IITG**

**Workshop on Sustainable Polymer Technologies for Young Scientists and Scholars**

- **Prof. Pralay Maiti**, School of Materials Science and Technology, IIT-BHU, India
- **Dr. Prodyut Dhar**, School of Biochemical Engineering IIT-BHU, India
- **Dr. Tabli Ghosh**, Dept. of Food Engineering and Technology, Tezpur University, Assam, India
- **Dr. Santosh Kumar**, Dept. of Food Engineering and Technology, CIT Kokrajhar, Assam, India
Sponsors

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Taiwan Chamber of Commerce in Delhi, India
New Delhi, India

Taiwan-India Joint Research Centre on
Artificial Intelligence
Minshiung, Chiayi 621301, Taiwan (R.O.C.)

Biotech KISAN Hub
IIT Guwahati

Common Research and Technology
Development Hubs (CRTDHs), IIT Guwahati

Federation of Industry & Commerce of North
Eastern Region (FINER), India

Contact: Convenor, TIEWS-2022
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