



भारतीय प्रौद्योगिकी संस्थान गुवाहाटी
Indian Institute of Technology Guwahati



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



Taiwan-India 2022 Exchange Workshop and Symposium

on *Intensifying the Connection of Sustainable Technology*

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



Taiwan-India 2022 Exchange Workshop and Symposium

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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. GOUD

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

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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



Taiwan-India 2022 Exchange Workshop and Symposium

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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, 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 & Technology Division, Taipei Economic & 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	Session II	Session III
<i>Chairman: Dr. Sivaji Chadaram</i>	<i>Chairman: Prof. Vimal Katiyar</i>	<i>Chairman: Prof. Chyi-How Lay</i>
<ul style="list-style-type: none"> • 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 	<ul style="list-style-type: none"> • 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. Amaresh DALAL Dept. of Mechanical Engineering, IIT Guwahati, India <p>Cultural Programme</p>	<ul style="list-style-type: none"> • Prof. Wei-Hsin CHEN (Online) Chair Professor, Dept. of Aeronautics & Astronautics, NCKU Taiwan • Dr. Thallada BHASKAR Head of Materials Resource Efficiency Division, CSIR-IIP 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
➤ Brainstorming session on sustainable manufacturing chaired by Dr. Vipin Shukla, DSIR, India		



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Day 2: September 6, 2022

Taiwan and India Technology Industry Experiment Exchange Session

Chairman: *Dr. Pao-Dong CHEN*

Opening address

Taisys Technologies Co. Ltd., Taiwan CEO, Jason Ho	Numaligarh Refinery Limited, India SCGM (Corporate Affairs), Mr. Nikunja Borthakur
CINDA Engineering & Construction Pvt. Ltd. (CINDA) Managing Director, Chung-Hsing Wang	Oil India Limited, India CGM-(R&D), Dr. Neeraj Mathur
EVER-CLEAR Environmental Eng. Corp., Taiwan (Online) Dr. Yu-Jen Huang	FINER, India Mr. Pabitra Boragohain President
Delta Electronics, Inc., Taiwan (Online)	

Round Table Discussion

Panel Discussion

New Venture Experiment Sharing Session

Chairman: *Prof. Pao-Ann HSIUNG*

Taiwan-India Joint Research Center on Artificial Intelligence, Taiwan Prof. Pao-Ann Hsiung
Taisys Technologies Co. Ltd., Taiwan Chairman, Jason Ho
National Cooperative Development Corporation (NCDC), Ministry of Cooperation, Gol, North East Regional Directorate, India Director, Robert H Touthang
ShivOm Dayal Energy, India CEO, Ashish Ahuja
Agro-Bio Energy-economic Circulatory Community, Taiwan Prof. Chyi-How Lay
NASSCOM Centre of Excellent IoT and AI, India
Eco-Energy Technology Co. Ltd., Taiwan (Online) General manager Ray Lin
Federation of Industry & Commerce of North Eastern Region (FINER), India

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



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Sponsors



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Feng Chia University
Taichung City 407102, Taiwan (R.O.C.)



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



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



Biotech KISAN Hub
IIT Guwahati



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



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Eastern Region (FINER), India**



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Contact: Convenor, TIEWS-2022

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