

POST SHOW REPORT



New Delhi

Hotel Le Meridien,
Connaught Place - 110001
2 August 2022



Bengaluru

Taj, MG Road,
Yellappa Chetty Layout - 560001
4 August 2022





Ministry of Electronics & Information Technology
Government of India

**India's Transformation into Emerging Tech,
Industry 4.0, Mobile & Device Manufacturing Hub**
2 August 2022 | New Delhi
Hotel Le Meridien, Connaught Place - 110001



450+ delegates from electronics manufacturing (OEMs, EMS, supplier of equipment, PCB manufacturers, design companies, industry associations and Government organizations) participated



Inaugural Session

IPC collaborated with Federation of Indian Chamber of Commerce & Industry (FICCI) for organizing the Inaugural session of IEMI at Hotel Le Meridien New Delhi on August 2 - India's Transformation into Emerging Tech, Industry 4.0 & Mobile Manufacturing Hub. Mr. Hari Om Rai, Co-Chair, Mobile Manufacturing and Communications Committee FICCI and Chairman & Managing Director Lava International Ltd. Highlight of his presentation was India is making rapid strides in electronics production and has emerged as the second largest mobile phone manufacturing hub globally. In his Special Address by Mr. R.K. Pathak, Deputy Director General of Department of Telecommunications, Ministry of Communications, Government of India talked about making India a global hub for telecom equipment manufacturing and promote development of new standards to meet national requirements.

Dr John Mitchell, IPC President & CEO, will assessed the state of electronics manufacturing and identified the trends that will define the industry's financial growth and technological progress in 2022 and beyond. Touching on topics that are the focus of board rooms and shop floors: factory modernization, supply chain resiliency, workforce demands, and environmental stewardship, John covered ways to navigate organizations to succeed in today's dynamic global marketplace in his dynamic keynote, "Electronics Manufacturing Embraces Digital."

Panel discussion

With support from FICCI, group of invited specialists, exchanged their opinions on the stage with the help of Session Moderator from KPMG Mr Prasad Unnikrishnan on "India's Transformation into Emerging Tech, Industry 4.0, and Mobile & Device Manufacturing Hub Opportunities, Challenges & Way Forward". Panelists :

- Sanjay Huprikar President, Europe & South Asia Operations, IPC
- M. Thiyagarajan, President, Indian Printed Circuit Association (IPCA)
- Goh Yiu Jin, Member, Association of Electronics Industries in Singapore (AEIS)
- Vinod Sharma, Past President, Electronic Industries Association of India (ELCINA)
- Sandeep Narula, Chairman, Electronics & Software Export Promotion Council (ESC India)



Technical Session

IPC collaborated with Automation Industry Association (AIA) for organizing the Technical Session on Industry 4.0.

Mr. Anup Wadhwa, Director, AIA in opening presentation highlighted "An Ecosystem approach to Capability Building" and also pointed out Government of India's initiative towards Industry 4.0. Mr. Sunil Mehta, President, AIA and General Manager, Mitsubishi Electric India Pvt. Ltd presented on "Industrial Electronics Manufacturing scenario and its synergy with industrial automation". Mr. Ravi Agarwal, Managing Director Pepperl+Fuchs Factory Automation presented on "Simplifying the Smart Manufacturing

Supported by



paradigm - experience sharing at FSM". Mr. David Bergman, Vice President (Standards & Technology) highlighted through his presentation "Factory of the Future", how IPC-2591 is enabling "plug and play" IoT communication across the manufacturing environment, where all equipment, manufacturing processes, and transactional stations can communicate without the need for specialized software.



Ministry of Electronics & Information Technology
Government of India

India - Emerging Aerospace Electronics Hub

4 August 2022 | Bengaluru

Hotel Taj, Mahatma Gandhi Road,
Yellappa Chetty Layout, Bengaluru 560001



Department of Electronics,
IT, BT and S&T

500+ delegates from electronics manufacturing (OEMs, EMS, supplier of equipment, PCB manufacturers, design companies, industry associations and Government organizations) participated



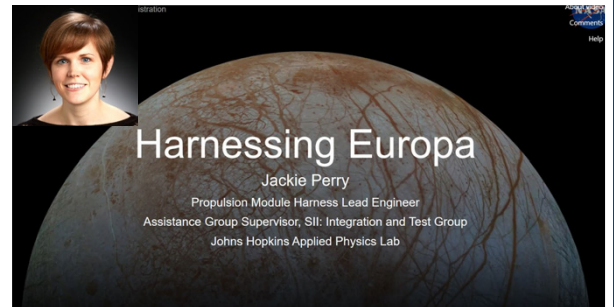
Inaugural Session

Dr. C.N. Ashwath Narayan, Honourable Minister, Higher Education, IT & BT, Science & Technology and Skill Development, Government of Karnataka was the Chief Guest at the IPC 10 years in India celebration event - Electronics Manufacturing & Interconnections (IEMI) at Bengaluru on August 4. In his address he talked about State of Karnataka, which has major potential to be the manufacturing hub for electronics, particularly aerospace. Government of Karnataka focusses on the Aerospace manufacturing ecosystem and 1,200-acre cluster is taking shape near the Kempe Gowda international airport. This will help organizations like ISRO, HAL, BEL to develop their vendors and supply chain. He highlighted that Department of IT, BT, Science & Technology;

is playing a key role to achieve the \$300 Bn digital economy target and is bringing the government and industry together. Karnataka has always been at the forefront leading the charge for technology space, contributing significantly to the country's digital growth. He congratulated IPC's skilling and certification initiative in India and assured cooperation from Government of Karnataka.

Technical Session

Jacklyn Perry, Johns Hopkins University Applied Physics Lab made virtual presentation on Harnessing Europa (a Jupiter-orbiting spacecraft) - NASA Project. Perry leads the team working on the Europa Clipper's propulsion module harness. Her group is responsible for ensuring that every component gets power and sends telemetry. Her presentation covered, "How will a spacecraft harness connect every electrical device on the Europa Clipper, a Jupiter-orbiting spacecraft that will study Jupiter's icy moon Europa"



Panel discussion

IPC organized panel session on "India: Emerging Aerospace Electronics Hub Opportunities, Challenges and Way Forward". Mr. M Sankaran, Director, UR Rao Satellite Center (URSC) moderated the panel session. The Panel Members:

- Wg Cdr Venugopal Menon (Retd), Hon. Secretary, Society of Indian Aerospace Technologies & Industries (SIATI)
- Wg Cdr Rachit Bhatnagar, CEO, Aerospace & Aviation Sector Skill Council (AASSC)
- Shripathi V, Member of Association of Electronic Industries in Singapore (AEIS)
- J Krishna Kumar, Scientist "F", Regional Director RCMA (APS), Member of CEMILAC, DRDO
- David Bergman, VP, Standards & Technology, IPC



Company	Countries
Holy Stone Holdings(S) Pte.Ltd.	Singapore
DYNACAST	Singapore
HIBEX	Singapore
Interflux Singapore Pte. Ltd.	Singapore
Inout Enterprise Pte. Ltd.	Singapore
American Tech	Singapore
McCoy Pte. Ltd.	Singapore
Marrath Trading and Contracting	Qatar
Airbus	UAE
GPV Lanka (Pvt.) Ltd.	Srilanka
Flintec Transducers (Pvt.) Ltd.	Srilanka

200+ B2B meetings

Held at IEMI New Delhi on August 2 & Bengaluru on August 4 with the international delegates Indian representation from electronics manufacturing (OEMs, EMS, supplier of equipment, PCB manufacturers, design companies)

Company	Product/Services
JAPAN UNIX	Soldering automation, peripherals
ISRO	Models of satellite, spacecraft, launchers
JBC	Soldering automation, peripherals
NANOTECH - TMI	Automation, EV, HVAC, Analytical Test & Measurement Solution
Static Systems	Electric fencing, metal detectors, entrance automation, polescan, security prods.
Anritsu	Test, accessories, optical sensing
Metronics	SMT materials, cleaning, coating materials & tools, thermal profiling
EFY Group	Electronics & Technology digital & print publication
Advance Tech	Soldering, de-soldering, screw assembly, test & measurement, ESD, solutions
Hakko Japan/Sumitron	Soldering/de-soldering, rework solutions
Peninsula Electronics	Quality products and services to aviation, space, defense and allied sectors
EMI Solutions	Test, accessories, optical sensing
AEIS	Association of Electronics Industries in Singapore
Ray-Q Interconnect	EWIS components and harnesses for industrial applications
Carl Zeiss	Reliable, high-quality measuring technology
HTL Ltd.	Optical fiber cables & component, connectivity & wiring interconnect solutions

20+ Exhibitors

Showed up with their products and services in the IEMI events at New Delhi & Bengaluru



Award Program

On the occasion of IPC 10 years celebration event, Dr John Mitchell, IPC President & CEO presented award to Indian Electronics Manufacturing Members companies engaged with IPC educational resources during last decade.



Global Volunteer of the Year (2020 – 2021) award were presented to



Lalith Bandara
Manager – Learning and Development
GPV Group, Sri Lanka



Savita Ganjigatti
VP Engineering
Sienna Ecad Technologies, India



Amba Prasad
Tejas Networks
India

Platinum Sponsor



Gold Sponsors





#Hand Soldering
Competition



#Wire Harness
Competition



#PCB Design
Competition



Supported by



100+

Electronics Manufacturing Companies Participated

1500+

Employees Participated

The initiative supports the drive for the "Skilling India" mission of the Government of India and promotes specialized skill development in the electronics manufacturing industry.

Preliminary Round

It was the first time that IPC India brought the skill challenge competition on #HandSoldering #WireHarness #PCBdesign to Member premises to allow maximum participation from employees. A total of 100+ companies and 1500+ employees participated in the first round of the competition, which was played at various company locations in India between January and April 2022. Three best performers were chosen by the company for participating at semi-final round. Observations were conducted virtually or in person according to the guidelines of the expert committee. Wire harness and hand soldering schematics were prepared in accordance with IPC standards. The PCB Design competition was organized offline by providing guidelines, schematics, BOMs, and mechanical specifications.

and many more...

Semi Final Round



Pune Hyderabad Chennai Ahmedabad Bengaluru Dubai (UAE) Colombo (Sri Lanka) New Delhi

Candidates chosen from preliminary rounds played semi-final rounds at different locations in India during May - July 2022, including Colombo (Sri Lanka) and Dubai (UAE). IPC India was successfully able to organize such events in different cities across India with the support of the electronics industry associations (MCCIA, TELMA, ELCIA, SICCI, GEZIA & ELCINA). Workshops and networking events were organized during the sessions to raise awareness about skill development. In New Delhi on August 2, the semi-final round of the North Region was held as part of the IPC's 10 years celebration event - Integrated Electronics Manufacturing & Interconnections (IEMI).

Final Round



On August 4, Integrated Electronics Manufacturing & Interconnections (IEMI) was held at Bengaluru as part of IPC's 10 years anniversary celebration of India. Competitors participated in the final round of the skill challenge competitions were winners and runners-up from each semi-final zone, including Sri Lanka and the UAE. During the awards program, winners and runner ups were announced for Hand Soldering, Wire Harness & PCB Design Competition:

- **#Handsoldering Winner** – Ranganath H from Cyient DLM and **Runner Up** – Rakshit Gowda of Automat Electronic Services, UAE. They will be participating at IPC world hand soldering competition to be held in Munich, Germany during 15-17 November 2022
- **#Wireharness Winner** – Amit Kumar from Vista Consoles Electronics Pvt Ltd and **Runner Up** – Babu Kumar from BEL
- **#PCBDesign Winner** – Satish Kumar Vijay Kumar from Tessolve Semiconductor Pvt. Ltd and **Runner Up** – Harish.G from Exicom Tele Systems.

Glimpses of IPC 10 Years celebration in India












National Associations/Chamber of Commerce

International Associations

Regional Associations/Chamber of Commerce

Bilateral/Multilateral Chamber of Commerce

		
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