

IEEE India Council

*SECRETARY'S REPORT, ANNUAL GENERAL MEETING (AGM)
19 December 2021, IIT, Guwahati
A summary of activities undertaken by the Council Executive Committee
Members in the Year 2021*



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1.0 EXECUTIVE SUMMARY

The year began with forming a strong and dynamic team under the able leadership of Dr.Suresh K.Nair, Chairman India Council. He shared a futuristic and extensive vision to all the members of executive committee of IEEE India council. The hope he entrusted on his team, has been successfully translated into a number of initiatives under the banner of IEEE India Council. The present report highlights some of these initiatives and the executions.

The Council started its initiatives by hosting its first meeting to felicitate Mr.Deepak Mathur, who had assumed the office of Director, IEEE R10 on January 1, 2021. This set a very positive note for yearlong activities. The meetings continued periodically and a total of eight ExCom meetings were held in the year 2021. Apart from the ExCom meetings a number of focus group meetings were also held to discuss, plan and execute council operations.

The teams of Student, YP, WIE and LM AGs, Technical, Professional, Educational and Humanitarian Activity under IC's umbrella waded through the tough times easily leaving behind a remarkable legacy. With a focus on engaging members actively at the same time catering to the unserved Students, Young professionals, Women in Engineering, Science and Technology and Life members, the teams showed exemplary courage in reaching out to more than thousands of people, inspiring them and at the same time optimizing benefits, cost and other resources.

The council added three subsections and one full section under its umbrella in the year 2021. All 13 sections have extended unconditional support to all of the council initiatives. Each section was requested to collaborate and provide technical and financial and other support where ever required for its initiatives.

The council was successful in conducting 11 SCT webinars, 8 WIE events, 9 YP focused events, 8 professional activities, 4 educational activities and about 18 plus activities under the brand of Humanitarian activities. Over all a 90 plus IC activities were recorded reaching out to almost to 25000 members and non-members, and almost 2 meetings every week among the specific team members to chart out activities.

Council communicated with its members using its website(<https://site.ieee.org/indiacouncil/>) and also through regular mail communication with committee members. Members were also connected using social media groups too. The student's coordination team and newsletter teams were active in sharing council initiatives with the outside world in the form of social media posts and by releasing quarterly newsletters. Also most of the council and section initiatives were promoted effectively by using IEEE e-Notice facility.

IC's flagship conference, INDICON 2021 is being cohosted by IEEE Kolkata section and would be held at IIT Guwahati from 19-21, December 2021. Another initiative started last year to provide an opportunity to host an international conference from IC subsection, continued this year too. i.e., the subsection hosted international conference- INDISCON for 2021 was organized by IEEE Nagpur subsection under Bombay Section.

The much awaited All India Student, Young Professionals, Women in Engineering, and Life member Congress (AISYWLC) 2021 was co-hosted by Kerala section from 1st December to 19th December 2021 in a hybrid mode.

The following are some of the major Achievements/ initiatives of Council for the year 2021.

1. Two IEEE Milestones were dedicated to the nation in the year 2021. The Giant Metre Wave Radio Telescope (GMRT), Khodad Village, Near Pune was the third IEEE milestone recognition of India. It was installed on 30th March 2021. The fourth one being Calcutta Electric Supply Corporation (CESC) of Kolkata was dedicated to the nation on 18th December 2021.
2. India Council has taken up the responsibility to implement MOVE Outreach India program in this year 2021. Six different teams to manage Technical, operations, Marketing, Education, Partnerships and Finance have been formed to manage the initiative. A new website, marketing brochures, a webinars series on disaster management and a number of partnerships to collaborate with (NDRF, RedR etc.,) are in progress for this niche initiative.
3. Digital presence and Branding of council activities were essential ingredients to reach to council members. In this connection council website was revamped, updated regularly maintaining the legacy information intact.
4. A well drafted documentation and policy for the council's Electronic Communication and Information Management (ECIM) was set up. The policy document was communicated through e notice and by uploading it on the website. This has smoothened the e Notice request to IC from IEEE members of India.
5. The bidding guidelines for INDICON and INDISCON were revisited and SoP were set for the same.
6. India council signed a Memorandum of Understanding (MoU) with PGCIL to announce joint awards. The two awards in Category-1: For engineers (Indian citizens only) who are professionally active (with no age limit) and Category-2: For engineers (Young Engineer Category, Indian citizens only) up to 35 years age.
7. The IC, IEEE WIE AG, Pune Section and Hope Foundation MoU was extended for the next three years. The award eligibility was also extended beyond the Indian Continent and to SAARC nations. For the first time a very high profile jury panel was set up to select the best Women Professional early career Winner and Runner and Best Outgoing Student, Female –Winner and Runner.
8. IC awards were more sought. To make the award application processes transparent and effective, IC award portal has been designed, developed and is live. The complete award process this year was carried out using this portal.
9. Based on the shared vision of IC chairman best practices of successful sections for membership development were shared across council members and sections. The council initiatives in creating the value resulted in recruitment and retention goals of most of the sections under its umbrella.

2.0 INDIA COUNCIL EXECUTIVE COMMITTEE (IC-EXECOM)

The India Council Executive Committee – 2021 comprises the following Members along with all the Section Chairs as its ex- officio members.

S.No.	Name	Role
1	Dr. K.R.Suresh Nair	Chair
2	Dr Rajashree Jain	Secretary
3	Dr Perna Gaur	Treasurer
4	Dr. Sri Niwas Singh	Immediate Past Chair
5	Prof. Debabrata Das	Chair Elect
6	Mr. Deepak Mathur	Advisor
7	Dr. Sivaji Chakravorti	Advisor
8	Er. R.K. Asthana	Ombudsman
9	Dr.Thangaprakash Sengodan	Vice Chair, Electronic Information Communication and Management(ECIM)
10	Dr. Atul Negi	Vice chair, Technical Activities
11	Dr. Y. Vijayalata	Vice Chair - Student Activities
12	Prof. S.V.Kulkarni	Vice Chair - Awards
13	Dr. Mini Ulanat	Vice Chair - Women In Engineering
14	Er.Sabarinath Pillai	YP activities & Student Coordination Team
15	Dr. R.B. Jadeja	Vice Chair - Branding & Member Benefits
16	Mr.Puneet Mishra	Vice Chair-Professional Activities
17	Dr. Asheesh K Singh	Vice Chair- Section & Subsection Coordinator
18	Mr.Abhay Phansikar	Vice Chair - Industry Relations
19	Dr.D.Devaraj	Vice Chair - Educational Activities
20	Dr.Rajesh Ingle	Vice Chair,-Membership Development
21	Ms.Sadhana Attavar	Vice Chair-HAC
22	Mr.Sanjay Kar Chowdhury	Vice Chair-Operations, Outreach and Strategic Planning
23	Mr.Utkarsh Singh	Editor, Newsletter
24	Mr.Harish Mysore	IEEE India Office
Section Chairs		
1	Dr. Bindumadhava	Section Chair-Bangalore
2	Dr. Satyanarayana Bhessette	Section Chair- Bombay
3	Prof Manik Lal Das	Section Chair-Gujarat
4	Mr.Sreenivas Jasti	Section Chair-Hyderabad
5	Ms Sarada Jayakrishnan	Section Chair-Kerala
6	Prof. Sudip Misra	Section Chair-Kharagpur
7	Prof.Sushmita Mitra	Section Chair-Kolkata
8	Dr N Kumarappan	Section Chair-Madras
9	Mr. Girish Khilari	Section Chair-Pune

10	Mr. S Lakshmi Narayana	Section Chair-Vizag Bay
11	Dr.Rachna Garg	Section Chair -Delhi
12	Prof. GS Tomar	Section Chair- Madhya Pradesh
13	Dr.Satish Singh	Section Chair- Uttar Pradesh

3.0 IC-EXECOM/CORE COMMITTEE MEETINGS

AGM and Execom Meeting - Nov.2021 till DECEMBER 2021

Sr. No.	Date	Name	# Members present
01	12/12/2020	AGM 2020	65
02	11/01/2021	IC ExCom	49
03	07/02/2021	IC ExCom	21
04	11/04/2021	IC ExCom	31
05	16/05/2021	IC ExCom	31
06	20/06/2021	IC ExCom	31
07	05/09/2021	IC ExCom	30
08	30/10/2021	IC ExCom	24
09	19/12/2021	Excom (planned)	-
10	19/12/2021	AGM (planned)	-

Meeting with members of National, International and Sub- Committee Members: Jan 2021 till October 2021

Sr. No.	Date	Team	Main Agenda
01	15 Jan 2021	VCs WIE, YP, SCT, ECIM	Way forward
02	16 Jan 2021	IC Core and Special committee	Draft policy on Science, Technology and Innovation, GOI, Feedback for the Draft Policy
03	27 Feb 2021	HAC -MOVE DART	Way forward
04	4 April 2021	SCT Meeting	Way forward
05	12 May 2021	ECIM	E-Communication Policy Development for IC
06	14 May 2021	DART	MOVE TEAM
07	30 May 2021	MOVE and DART	Way forward
08	5 June 2021	SAC and Technical	INDICON and INDISCON
09	6 June 2021	HAC Sub Meeting	HAC sub meeting
10	16 June 2021	HAC MOVE	Way forward : With, MOVE USA team, Mr. Deepak Mathur, Director, R10
11	17 June 2021	Smart Village	Way forward :Smart village
12	5 July 2021	IC S, Y, W, L and Kerala Section team	AISYWLC Kick off Meeting

IEEE India Council Student Coordination Team and Student Activities were active hosting about 20 plus meetings, reaching out to more 2000 members across India.

The first webinar of the IEEE India Council Student Coordination team of 2021 was conducted successfully on the topic “Webinar on Membership Development and Retention” on 2nd February 2021. The speaker of the session was Dr Rajesh Ingle, Vice-chair-Membership Development. Dr Ingle provided an elaborate idea on how IEEE helps the student members in various areas such as in higher studies, Entrepreneurship, placements. He also threw lights on the various IEEE resource Tools available of VOLT and CLE are the essential sources that build future leaders. His presentation elucidated the importance of volunteering, its help in the student’s growth and how volunteering builds confidence and develops leadership qualities. He concluded his speech by mentioning that IEEE members are the members worldwide.

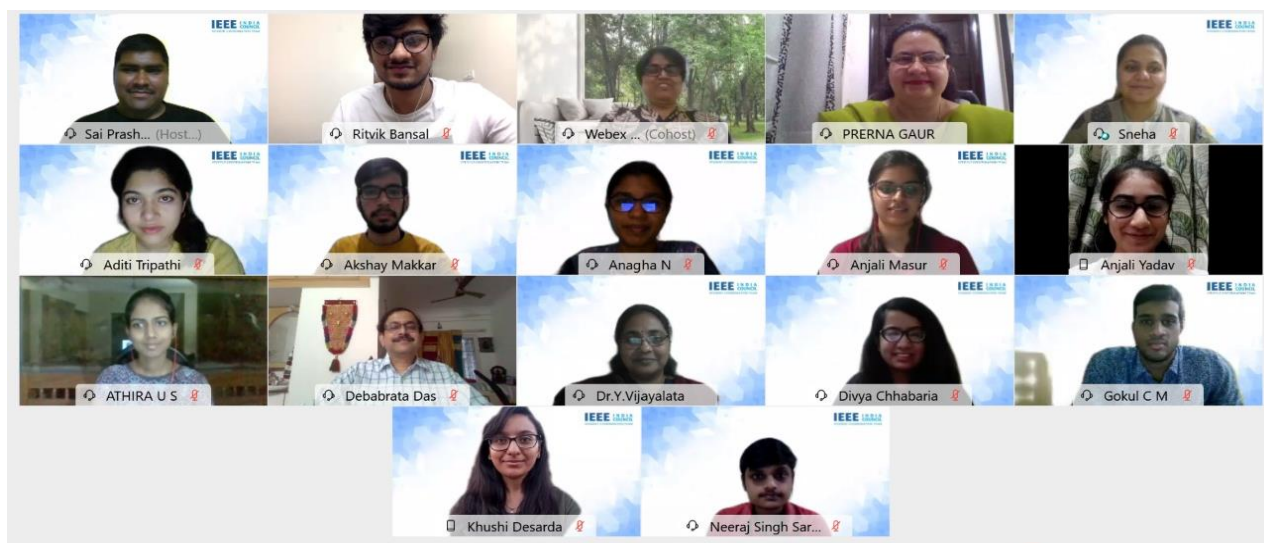
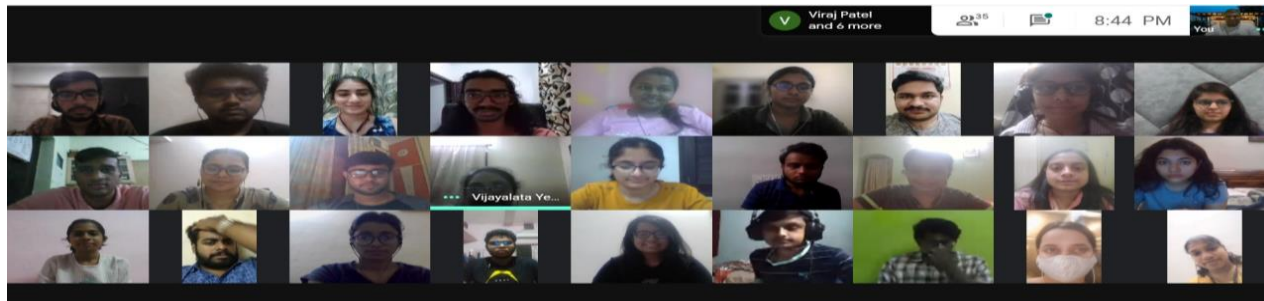
On 27th February 2021, the Student Coordination team for the session formed. The



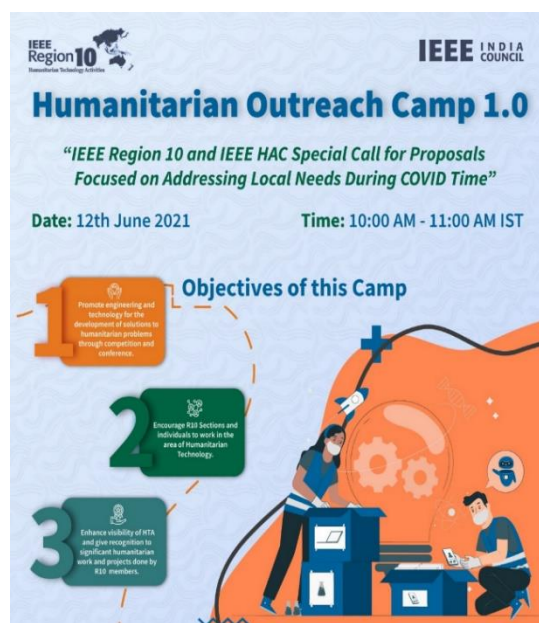
following day in a virtual meet, the team was introduced to the India Council.

The Student Coordination Team of 2021 boasts members from 12 different sections across India.

The third IC SCT meet was held on 30th May 2021. Progress of each sub-team was discussed and brainstorming on new ideas was done during this meeting. The team was also inspired to come up with exciting activities for the following quarter. Some glimpses of the IC, SAC and SCT Teams.

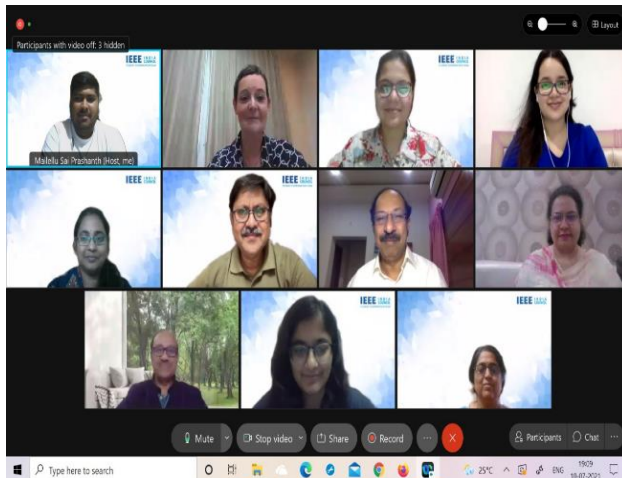


The first webinar for this quarter was ‘Humanitarian Outreach Camp 1.0’ was successfully conducted on 12th June 2021. The special speaker for this event was Prof. Bijoy Jose, IEEE R-10 HTA Member and Past Recipient of the HAC proposal. The objectives of this event were to brief participants about a special call for proposals focused on addressing solutions for local needs caused during the Covid19 pandemic initiated by IEEE R-10 HTA and IEEE HAC, to promote engineering and technology for the development of solutions to humanitarian problems through competition and conference, to encourage R10 Sections and individuals to work in the area of Humanitarian Technology and to enhance the visibility of HTA and give recognition to significant humanitarian work and projects done by R10 members.



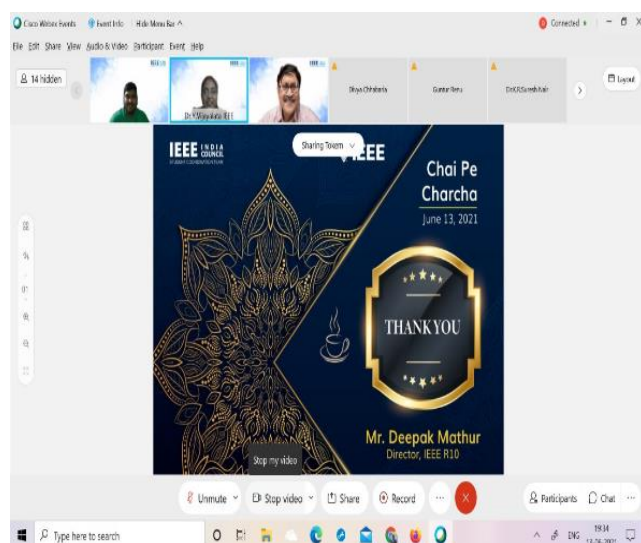
On 13th June 2021, the inaugural episode of ‘Chai Pe Charcha’, a Tea Time Talk series was conducted with the first guest speaker Mr. Deepak Mathur, Director IEEE R-10.

This rendezvous encouraged and enabled participants to be candid in conversation with the speaker and an open platform to ask questions. The event started by Mr. Mathur answering questions about the importance of volunteering and its different aspects that help the overall development of students followed by him narrating his IEEE journey. Various topics like sustainable technologies, the balance between academics and volunteering were also discussed. The session was concluded with Mr. Mathur sharing a story and a piece of advice for all the young volunteers of IEEE.



IEEE IC was a proud host of the webinar ‘IEEE Software and Systems Engineering Standards’ by Ms. Susan Kathy Land, IEEE President and CEO 2021, dated 10th July 2021. The participants received in-depth knowledge about the role of IEEE software and systems engineering standards as a basis for software improvement.

The second episode of “Chai Pe Charcha” series was organised on 15th August 2021. The guest of honor for the second episode of Chai pe Charcha was Prof. Sivaji Chakravorti, Past Chair of IEEE India Council. Members of the IEEE IC SCT’21. Dignitaries like Mr. Suresh Nair, Mr. Deepak Mathur were in attendance. The event began with Prof. Sivaji Chakravorti being asked to share his journey so far and what made the most impression on him as a professional. Topics like growth in technology, coping with new post pandemic work culture, benefits of active professional life were discussed during the meet. The session concluded with Prof. Chakravorti sharing a metaphor that life is a marathon and advised participants to be sincere in life.





Electric Vehicles and Their Market in India

A webinar by
Mr. Naveen Munjal
Managing Director,
Hero Electric Vehicles Pvt. Ltd.

Join Us on
31st July 2021 | 11:00 AM IST

www.ieeeindiacouncil.org

India Council had arranged a tech-talk with the Managing Director of Hero Electric Vehicles Pvt. Ltd, Mr. Naveen Munjal on 11th July 2021. The topic of the session was electric vehicles and their market in India. Mr. Munjal spoke about the transition of preference of two wheelers from bicycle to motor cycles, difference between the market of two wheelers in India and in other countries, the global industry of electric vehicles etc. The Q & A round was conducted afterwards, where Mr. Munjal addressed individual questions from the audience and the session was thus concluded.

The third episode of “Chai Pe Charcha” series was organised on 8th October 2021. The guest of honor for this episode was Dr. Suresh Nair, Chair of IEEE India Council. Dr. Nair appreciated and praised the volunteers of IEEE and motivated the audience to be an active part of this community.

Report by: Dr. Vijayalata Y, VC, SAC, India Council



All India Students Young Professionals Women in Engineering Life Members Congress 2021

The IEEE All India Student - Young Professional - Women In Engineering - Life Member Congress 2021 (AISYWLC'21), the annual flagship event of IEEE India Council, is hosted by IEEE Kerala Section, with IEEE SB MACE as the cohost. The theme of AISYWLC'21 is “Together, Stronger, Forward”. The title sponsor for AISYWLC'21 is UST, and Edurupt is the associate Sponsor. IEEE Signal Processing Society, IEEE Nuclear & Plasma Sciences Society and IEEE Electronics Packaging Society are the Society Sponsors. IEEE Students and IEEE Young Professionals are the track sponsors. IEEE Hyderabad Section, IEEE Bombay Section, IEEE Madras Section and IEEE Pune Section are the Section Sponsors. IEEE SB AJCE and IEEE SB GCEK are the Student Branch Sponsors. The event has 603 registrations, of which 100 are offline, and the rest is online. The venue of AISYWLC'21 is Four Points by Sheraton, Kochi Infopark.

The Congress is conducted on four days, on 1st, 11th, 18th & 19th December respectively. On 1st December was the inaugural ceremony. The prestigious event was inaugurated by Dr Sarith Kumar Das, Institute Chair Professor at IIT Madras. He delivered a plenary talk on “Electronic cooling using smart nanofluid”. Day-1, which was 11th December, had dedicated tracks under IEEE Students, IEEE Young Professionals, IEEE Women in Engineering and IEEE Life Members. The Inauguration and Day-1 were completely virtual, and Day-2 and Day-3 will be conducted in a Hybrid mode with 100 delegates joining us at the offline venue. Day-2 & 3 have six talk sessions by eminent speakers from different fields and an SPAA Track. On 18th we have arranged a DJ Night, and on 19th there is a Cultural performance by ALMARAM Music Band.

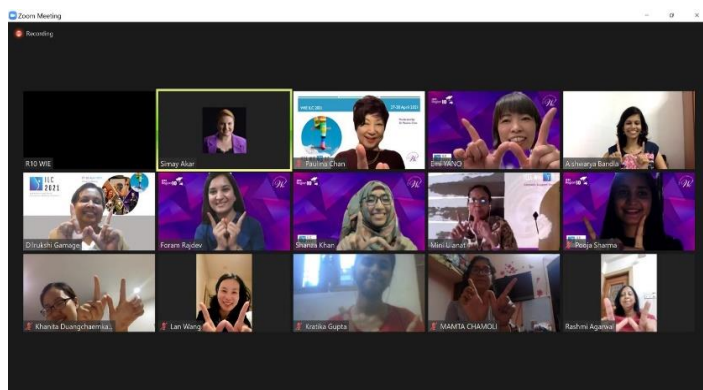
Report by Sreelakshmi M Rajeev, Student Representative | IEEE Kerala Section

5.0 IEEE INDIA COUNCIL WOMEN IN ENGINEERING ACTIVITIES 2021

S. No.	Name of the activity	Speaker Name with Key Takeaways	Total Members attended
1	Interaction with R10 WIE coordinator Ms. Emi Y Mar 12,2021	Ms. Emi Yano	14
2	Planning meeting for Returning Mothers Conference April 16,2021	Dr. Ramalatha Marimuthu	14
3	WIE ILC Networking Event (R10) 10 April 40	Ms. Emi Yano	28
4	International WIE Day June 23, 202	1.Meet the WIE Heroes- BLR Women in Engineering as Heroes-HYD 2.Women Back to Work 2b.introduction to Deep learning-BOM 3.Building a successful career- KER 4.a.Panel Discussion with Engineering Heroes- GUJ 4.b. Ideathon - GUJ 5.Dare to Dream -3 - KOL 6. Embracing Ourselves as Women-Pune 7. Technical summit : Promoting Assertiveness - UP 8. Panel Discussion - Post covid impact: challenges & opportunities-DEL	
5	ToT “Cyber Suraksha “ supported by 8 WIE AGs Jul 3-8,	Training programme	28

	2021.		
6	Returning Mother's conference Aug 27-29 , 2021	Multiple Speakers	112
7	AISYWLC- 2021 WIE Track Planning meet October 23	WIE Volunteers	10

Report by: Dr.Mini Ulanat VC, WiE, India Council



6.0 INDIA COUNCIL YOUNG PROFESSIONAL AFFINITY GROUP ACTIVITIES 2021

S. No.	Name of The Activity	Speaker	Date	Total Number of Participants
1	Support Bombay Section STEP – in association with Bombay Section	Prof. Sabarinath G	10-04-2021	130
2	FINSTART	Mr. Purv Shah	11-04-2021	117
3	Modern Tools for Research	Prof. Binu A	26-04-2021	112
4	Effective research publication	Prof. Sundararajan	27-04-2021	123
5	Workspace Communication	Mr. Vijay S Paul	22-05-2021	138
6	Social Media Security	Mr. Shahul Hameed	12-06-2021	127
7	Sparkle Summit	Prof. Sabarinath G	10-08-2021	25
8	MDC Project Summit	Prof. Sabarinath G	23-08-2021	25
9	Personal Finance management	Ms. Sruthy S Khan	24-09-2021	115

	Total Member Reached		912
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Report by: Mr. Sabarinath Pillai. VC, YP, India Council

7.0 IEEE INDIA COUNCIL TECHNICAL ACTIVITIES 2021

Part 1 Report on INDISCON 2021

2nd IEEE India Council sub-sectional, international conference INDISCON 2021.

Hosts: Nagpur Sub Section, under Bombay Section, Venue: Visvesvaraya National Institute of Technology, Nagpur

Mode of operation: Virtual.

Website: <https://www.ieeebombay.org/indiscon21/>

Dates: August 27-29, 2021

Theme: Impactful innovations for the benefit of industry and society

Conference Leadership: General Chair: Abhay Gandhi, VNIT, General Co chairs: Rajesh Pande, Bharatbhushan Joshi, VNIT, TPC Chair: Prabhat Kumar Sharma, VNIT.

Proceedings Link: Papers submitted to IEEE Xplore awaiting publishing

Program Highlights: Inaugurated by Mr. Deepak Mathur, Director IEEE Region-10, with Prof. Pramod Padole, Director of VNIT Nagpur, with Execom members of IEEE Nagpur Sub-section physically present.

Dr. Suresh Nair, Chair India Council, Prof. A. S. Gandhi Chair IEEE Nagpur Subsection, Dr. Preeti Bajaj and Mr. Arvind Kumar, the Past Chairs of IEEE Nagpur Subsection, involved 5 tracks with 4 unique themes including AI (12 papers), Communication (4 papers), electrical vehicular technologies (3 talks) and image/signal processing (3 talks). Keynotes: 6 keynotes. Papers: Totally received 124 submissions, 32 were provisionally accepted. Finally, 23 technical papers were presented after registration.

Part 2. INDICON 2021

18th IEEE India Council International Conference INDICON2020

Host Section: Kolkata Section, Venue: IIT Guwahati

Mode of operation: Hybrid

Website: <https://ewh.ieee.org/r10/calcutta/indicon2021/index.html>

Dates: 19-21st December 2021

Conference Leadership: General Chairs: Sukumar Nandi, IIT-G, Sushmita Mitra, ISI Kolkata, TPC Chair: Ujjwal Maulik, Jadavpur university, Co-Chairs: Biswarup Basak, Jatin Kr. Deka and Rohit Sinha, Organising Chair: Sanjay Kar Chowdhury, Publication Chair: Sanasam Ranbir Singh, Co-Chair: Tridibesh Nag

Proceedings: Under Progress

Program Highlights: 288 papers accepted from 665. 4 keynotes, one industrial track talk and one invited talk, Tutorials, Panels, Industry sessions, WIE Sessions and PhD Forum planned.

Present Status: 19- 21 December 2021

Part 3 –INDISCON 2022

3rd IEEE India Council sub-sectional, international conference INDISCON 2022

Hosts: IEEE Bhubaneswar Sub-section under Kolkata Section Venue: KIIT Deemed to be University, Bhubaneswar

Mode of Operation: In person, Website: <https://www.indiscon2022.org/>

Dates: 15-17 July 2022

Conference Leadership: General Chair: Subhransu Ranjan Samantaray, IIT Bhubaneswar, Co-chair: Harekrishna Rath, ITR, Chandipur, Balasore, Conference Chair: Ashok Kumar Tripathy, IEEE Bhubaneswar Subsection; Organising Committee: Chair: Chinmoy Kumar Panigrahi, KIIT-DU, Bhubaneswar Co Chairs: Ranjeeta Patel , KIIT-DU,Bhubaneswar ; Technical Program Committee: Chair: Debi Prosad Dogra, IIT Bhubaneswar, CoChairs: Chandrasekhar Perumalla, IIT Bhubaneswar, Publication Committee: Chair Renu Sharma, SOA, Bhubaneswar, Co Chairs: Srinivas Karanki, IIT Bhubaneswar, Sujata Chakravarty, Centurion Univ., Bhubaneswar

Proceedings: Conference not over CFP Released at Website

Present Status:

Steering Committee is meeting regularly. Call for papers released, Paper submission through CMT open .
(<https://cmt3.research.microsoft.com/User/Login?ReturnUrl=%2FINDISCON2022%2FSubmission%2FIndex>)

Part 4 –INDICON 2022

Council has invited IEEE Kerala section to host INDICON 2022.

Report by:Dr.Atul Negi. VC, Technical Activities, India Council

8.0 IEEE INDIA COUNCIL-EDUCATIONAL ACTIVITIES-2021

IC EA team Conducted power packed and impactful several activities.

1. IEEE India Council organized a Webinar on “Exploring the Educational Resources of IEEE” on 27th February, 2021 through online. Around 85 members participated in the programme. The event started with the welcome address by Dr. D. Devaraj, Vice Chair of Educational Activities, IEEE India Council. He welcomed the resource persons, Special invitees and the participants. He mentioned that this webinar was organized to provide awareness to the members about the various educational resources available in IEEE and motivate them to utilize the resources. Dr. S K Nair Sir, Chair, IEEE India

Council felicitated the programme by his opening remarks. In the first session, Mr. Sohaib Sheikh, Chair, Awards and Recognition committee, IEEE EA Board briefed the audience about the various funding opportunities and the IEEE Educational activities award. He encouraged the members and volunteers to utilize these opportunities. This session was followed by a presentation on “Educational Resources of IEEE” by Dr. Preeti Bajaj, Chair, R10 Educational activities committee. The last session was handled by Dr. Dhanukumar Pattanasheti, Senior IEEE Client services/University Partnership Program Manager, on the topic of “Inspiring Innovation and Research with IEEE Publications”. During the presentation, he highlighted the IEEE Publications, Conferences and Continuing education programs. He encouraged the members to use the high-quality content available in IEEE site for the educational and research activities. The programme ended with Vote of Thanks by Dr.D.Devaraj, Vice-Chair, Educational activities, IEEE India Council.

2. IEEE India Council Educational Activities Team organized a Webinar on “IEEE Educational Activities” on 26th March, 2021 through online mode. Around 150 members participated in the Webinar. The event started with the welcome address by Dr.D.Devaraj, Vice Chair of Educational Activities, IEEE India Council. He also briefed the event details to the participants. provided the initial remarks for the programme. Dr. S K Nair, Chair, IEEE India Council and Ms. Rajshree, secretary, IEEE India Council felicitated the event. The speakers Dr. S. K. Ramesh, Dr.Supavade Aramvith and Dr.Vijayalatha were introduced by the IEEE IC Chairman Dr. S K Nair. Dr. S. K. Ramesh, Professor, California State University, USA, during his presentation explained in detail various educational activities focussing on IEEE Learning Network, IEEE Academy and continuing education. He encouraged the members to make use of these opportunities for their professional growth. Dr.Supavade Aramvith, Chair IEEE EAB Section Education Outreach Chair explained about the various pre-university educational activities conducted by IEEE and encouraged the volunteers to make use of the e-content available in Try Engineering for the benefit of the school students and teachers. This session was followed by a presentation by Dr.Vijayalatha, IC SAC Vice chair on the topic of “EPICS in IEEE”. She encouraged the members to take up projects to address the problems faced by the local community. She also explained about the funding opportunities available to carryout community service projects. During the Q & A session, the speakers answered to the questions of the participants. This event has enabled the IEEE members and student volunteers of IEEE to understand the various educational activities of IEEE and motivated them to get involved in the educational activities. The programme ended with Vote of Thanks by Ms.Ankita Chandavale, Educational Activities Volunteer, IEEE India Council.
3. IEEE R10 EAC Sponsored “TryEngineering & STEM Workshop on “Arduino Blink Challenge” for the School Teachers on June 25th & 26th, 2021

IEEE India Council organized the IEEE R10 EAC supported TryEngineering & STEM workshop on “Arduino Blink Challenge” on June 25th & 26th, 2021. The inaugural function was held on June 25th, 2021 at 2 PM. The programme started with welcome address by Dr.D.Devaraj. Vice Chair, IEEE Educational Activities. He highlighted the initiatives taken by the IEEE IC in providing Educational support to the students and faculty members. He also explained the significance of the workshop which was conducted for the school teachers who in turn will transfer the knowledge to their students. The inaugural address was delivered by Dr.Suresh Nair, Chair, IEEE India Council. In his speech, he appreciated the efforts of IEEE IC Educational Activities team for the Academic support provided to the students and teachers through Webinars and workshops. He highlighted the impact of Industry 4.0 and the necessity of gaining knowledge on topics like Microcontrollers, IoT and Artificial Intelligence. Dr.Rajashree Jain, Secretary, IEEE IC delivered the felicitation address in which she encouraged the participants to explore the possibility of providing technical solutions to the challenging real world problems. This was followed by Dr.D.Devaraj who explained the Educational activities of IEEE and various educational resources available in IEEE. He presented the various courses available under IEEE TryEngineering for the benefit of the Pre-university teachers, students and parents. 75 participants attended the session through online platform. The event was also Live streamed through YouTube.

4. Technical support to the IEEE Region 10 EAC sponsored, online capacity building workshop on "Education 4.0-Role of Educational Technologies" organized by Symbiosis Institute of Computer Studies and Research, IEEE Pune section, IEEE Delhi Section, IEEE Madras Section and IEEE Nagpur Subsection during 15 July - 17 July 2021. More than 300 participants benefitted during the workshop

5. Panel Discussion on EPICS on July 17th, 2021 jointly with the Students Activity Committee, IEEE IC. IEEE R10 EA Funded Capacity Building Workshop on “Artificial Intelligent Techniques to Address Societal Challenges” during October 1-3, 2021

Symbiosis Institute of Computer Studies and Research
 IEEE R10 EA Sponsored Capacity Building Workshop
Education 4.0
 Role of Educational Technologies

DAY 1 15TH JULY 2021 THURSDAY (2:00 PM-5:00PM IST)	DAY 2 16TH JULY 2021 FRIDAY (2:00PM-5:00PM IST)	DAY 3 17TH JULY 2021 SATURDAY (5:30PM-8:30PM IST)
Inauguration Ceremony Education 4.0 in the Realm of Learning Continuity Dr. Debarshi Mukherjee Central Uni., Tripura Moodle Ms. Gayatri Venugopal SICSr, Pune	IEEE Educational Resources Dr. Supavadee Aramvith Chulalongkorn Uni. How to Shape Your Future in the Fourth Industrial Revolution? Mr. Dhanukumar Pattanshetty Uni. Partnership, IEEE India Learning Management System: Google Classroom Dr. Amoli Belsare, IEEE R10 EAC Member Dr. Nita Rehpade, Department of ETC, YCCE, Nagpur	Content Development and Archiving Tools for Research Mr. Binu A Rajagiri, RSET, Kerala IEEE Collabratec® Mr. John Day, Director, IEEE MPP IEEE TryEngineering Ms. Lorena Garcia, IEEE Uni. Partnership Digital Pedagogy Mr. Radeep Krishna, KARH, Tamil Nadu AI in Education Mr. Anurag Sahay, VP & GBU Head, Nagarro Valedictory

Register: <https://bit.ly/3wksLjt>
 Meghna Das: +91 9932632295
 ieee@sicsr.ac.in

6. IEEE India Council organized the IEEE R10 EAC supported capacity building workshop on ARTIFICIAL INTELLIGENCE TECHNIQUES TO ADDRESS SOCIETAL CHALLENGES in association with IEEE Madras section, Pune section, Education society-Hyderabad section and YP-Madras section during October 1st to 3rd, 2021. The inaugural session of the programme started on Oct 1, 2021 at 2.00 pm through online zoom platform. Dr.D.Devaraj, Vice chair, Educational activities welcomed the gathering and he highlighted the initiatives taken by the IEEE IC Educational activities team. Dr.Rajshree Jain, Secretary, IEEE IC introduced the Chair, IEEE IC. Dr.K.R.Suresh Nair, Chair, IEEE India council delivered the presidential address highlighting the importance of AI in different areas of technology and for addressing many societal challenges. Dr.D.Devaraj introduced the chief guest, Dr.B.Yegananarayana, INSA Senior Scientist, IIIT Speech processing lab, Hyderabad. The chief guest delivered the inaugural address highlighting the deeper insights of AI in today's world and the importance of human intelligence in different areas of technology. Dr. J.Preetha Roselyn introduced the keynote speaker, Dr.N.Seetharaman, Prof & Head, Community medicine, KMCH. Dr.N.Seetharaman, Prof & Head, Community medicine, KMCH delivered the keynote address which comprises of AI implementation in medical field and the areas yet to explore in medical field. Dr. Perna Gaur, Treasurer, IEEE IC, Dr.N.Kumarappan, Chairman, IEEE MAS and Dr. Girish Killari, Chairman, IEEE Pune section felicitated the event. Dr.Y.Vijayalatha, Vice chair, student activities, IEEE IC detailed about the event schedule. The three day sessions were truly technical extravaganza to all the participants.

Report by: Dr.Devraj D. VC, Educational Activities, India Council

9.0 IEEE INDIA COUNCIL-PROFESSIONAL ACTIVITIES-2021

Name of the Activity	Speaker/Guests	Date	Members	Non Members	Total
Transforming Tomorrow Together with Cisco LaunchPad	Ms. Sruthi Kannan, Head, CISCO Launch Pad	October 1, 2021	75	25	100
Transforming Policy into Pragmatic Reality in the Perspective of Technical Education vis-a-vis NEP2020	Prof. P. Nagabhushan, Director, IIIT Allahabad, Prayagraj	September 9, 2021	80	30	110
Leadership and Indian Philosophy	Prof. Himanshu Rai, Director, IIM Indore	August 9	60	30	90
Modelling the COVID-19 Pandemic: SUTRA Predictions	Dr. M Vidyasagar, Chairman, National COVID-19 Supermodel Committee	July 2	100	50	150

Intellectual Property Creation: Why, What and How?	Dr. Alok Nath De, CTO Samsung R&D India	June 4, 2021	400	110	510
Education, Research, Innovation: The Challenging Role of twenty-first Century University	Prof. V Ramgopal Rao	May 28, 2021	430	160	570
DRDO's Defence and Covid-19 Related Technologies towards AtmaNirbhar Bharat	Dr. G Satheesh Reddy, Secretary, DDR&D, GoI	May 21, 2021	500	150	650
Story of Mars 2020 Perseverance Rover from Launch to Landing	Dr. Swati Mohan, JPL/NASA	November 12, 2021	500	550	1050
Total Number of Attendees Reached					3230

Report by: Mr. Puneet Mishra, VC, Professional Activities, India Council

10.0 IEEE INDIA COUNCIL-INDUSTRY RELATIONS

Name of the Activity	Speaker/Guests	Date	Members	Non Members	Total
IPR Commercialization Workshop	6 Experts	Feb 19, 2021	35	140	175
Startup Ideation	5 Experts	March 03, 2021	23	90	113
WTD Tech Talk	Dr S Mehta	May 17, 2021	15	45	60
Entrepreneurship Boot camp	16 Experts	July 5-July 10, 2021	250	3500	3750
DISCOMS at a point of Inflexion	D. Arolkar	March 06, 2021	13	4	17
SMART Lighting Technologies	A Jagatia	October 10, 2021	105	55	160
Total Number of Attendees Reached					4275

Report by: Mr. Abhay Phansikar, VC, Industry Relations, India Council

11.0 IEEE INDIA COUNCIL-HUMANITARIAN TECHNOLOGY ACTIVITIES

During 2021 Humanitarian Technology Activates of IEEE India Council focused on launch of MOVE Outreach India Program in lines with MOVE USA program. MOVE (Mobile Outreach Vehicle) Outreach India program a disaster relief and outreach program is an international IEEE program launched in India by IEEE India Council.

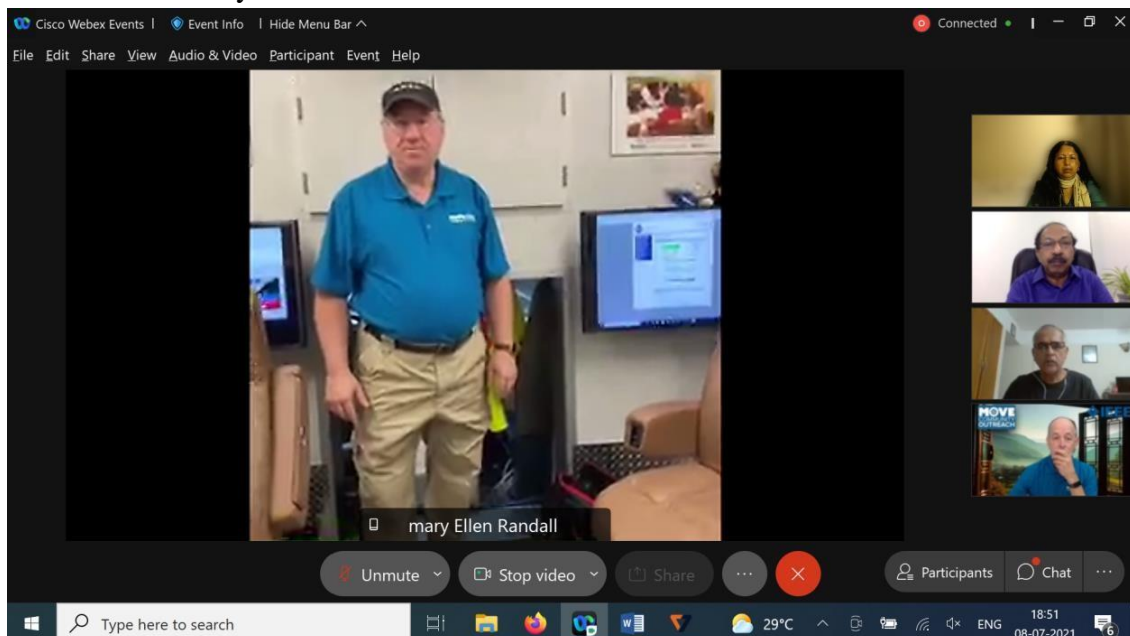
1. Call for volunteers for IEEE MOVE India Program

263 volunteers applied for volunteering for the program and following six committees were formed with leaders and co-leaders for various committees:

- a. Technology
- b. Operations
- c. Partner relations
- d. Education
- e. Marketing
- f. Finance

2. Launch of IEEE India Council MOVE Outreach India Program

On July 8 2021 MOVE Outreach India program was launched with a talk by **Ms.Mary Ellen Randell** Director IEEE MOVE Community Outreach Program followed by live demo of MOVE vehicle.



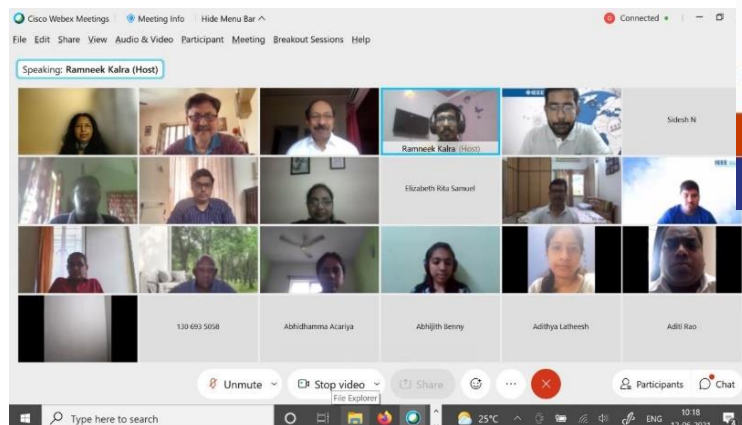
Mr.Randell demonstrating the MOVE USA Truck

3. Meeting with leaders of 6 committees of MOVE Outreach India Program

On July 18 2021 a meeting was held with leaders of 6 committees of MOVE Outreach India Program to discuss about objectives and guidelines of IEEE MOVE Outreach Program planning Meeting

4. IEEE R10 Humanitarian Outreach Camp 1.0

IEEE Region 10 Humanitarian Technology Activities (HTA) Committee in collaboration with IEEE India Council Student Activities Committee (SAC) & IEEE



India Council HTA organized

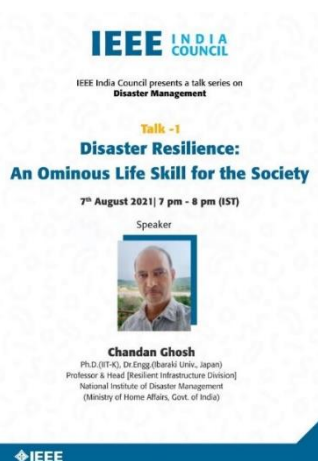
“Humanitarian Outreach Camp 1.0 on June 12 2021.

5. Talk on Technology for Disaster Management at IIT Mandi

A talk on Technology for Disaster Management was delivered by Ms.Sadhana Attavar as part of IEEE SIGHT Talk at IIT Mandi on 31st July 2021. About 50 participants attended the talk.

6. Talk Series on Disaster Management Talk 1

On 7th August 2021 the first talk on Disaster Resilience - An Ominous Life Skill for the Society was delivered by Dr.Chandan Ghosh Professor & Head, Resilient Infrastructure Division from National Institute Of Disaster Management Ministry of Home Affairs, Govt. of India. About 50 participants attended the talk. On September 4th 2021 a talk on Fire Safety



and Preparedness was delivered by Mr.Sachin Kumar Rai, Principal Engineer, Fire and Smoke Modeling, Underwriters Laboratories (UL).It was attended by about 60 participants. On September 25th 2021 a talk on IEEE members and the Asian Tsunami was delivered by Mr.Amarnath Raja IEEE SIGHT Founder and CEO of INAPP India. It was attended by about 40 participants. On December 11th, 2021 a talk on Crisis Communication Management during Disaster Response was delivered by Mr.Daman Dev Sood, International Resilience Trainer and Consultant .It was an interactive session attended by about 30 participants.

India Council Track at IEEE R10 HTC 2021

As part of IEEE Region 10 Humanitarian Technology Conference organized during September 30-October 2 2021 India Council track on the theme Disaster Response:

Preparedness, Relief and Recovery was organized on October 1 2021.The IC Track was inaugurated by Mr.Mohandas Pai, Founding CFO Infosys and Chairman Manipal Global Education and he delivered a talk on the theme.



IEEE Region 10 Humanitarian Technology Conference 2021

IEEE India Council Track on Disaster Response: Preparedness, Relief and Recovery



MR. MOHANDAS PAI

Former CFO, Infosys
Chairman, Manipal Global Education

INAUGURATION CEREMONY



MR. DEEPAK MATHUR

Director, IEEE Region 10



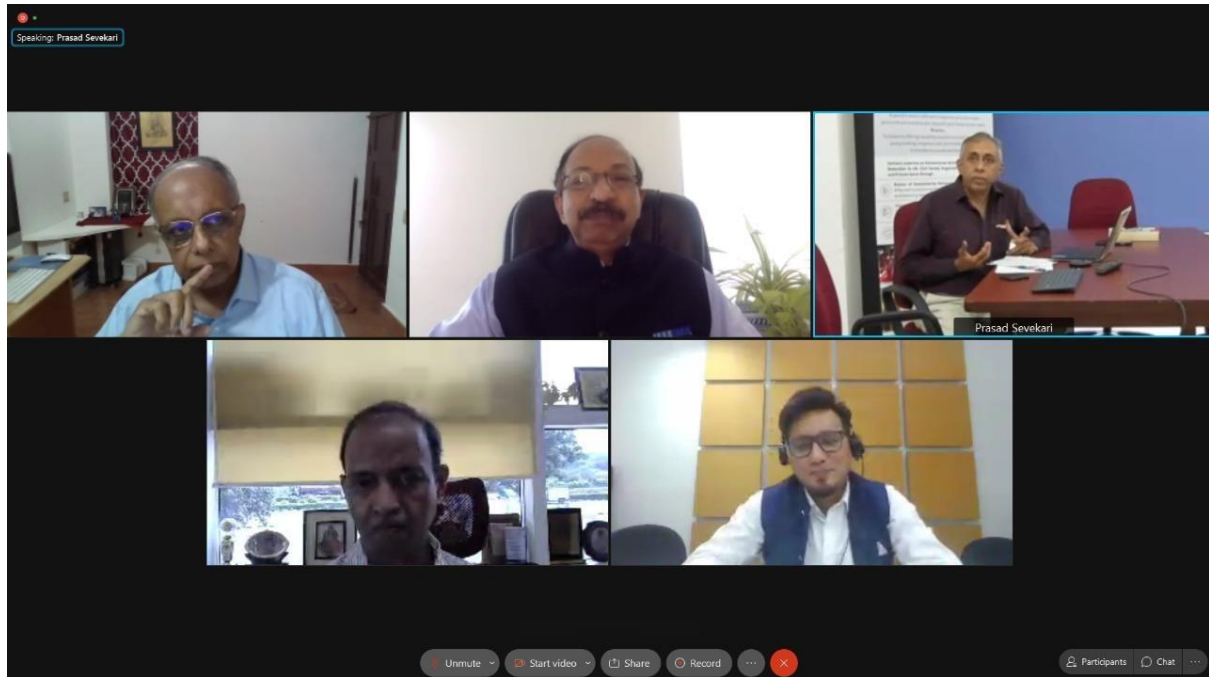
DR. SURESH NAIR

Chair, IEEE India Council

[CLICK HERE TO JOIN](#)

There were 3 sessions. Session 1 was about MOVE Outreach program. Session 2 was the demo of prize winners of Video contest on the theme.

The third session was on Panel discussions on the theme of the track.The track was well received. About 60 participants attended the track.



Panel discussion on the theme



IEEE R10 HTC 2021

India Council track on

“Disaster Response: Preparedness, Relief and Recovery”

Date: 1st October 2021

Time: 9:00 AM to 1:00 PM

Session	Event	Speaker/Details
9:00 AM to 9:30 AM	Inauguration of IC Track	Mr. Mohandas Pai , Chairman, Manipal Global Education and founding CFO Infosys in the presence of Mr. Deepak Mathur , IEEE Region 10 Director and Dr. Suresh Nair , IEEE India Council Chair
Session 1 9:30 AM to 10:15 AM	Talk on IEEE MOVE Outreach Program	Ms. Mary ELLEN , Founder and Director IEEE MOVE Outreach Community Program USA
10:15 AM to 10:30 AM	Talk on MOVE Outreach India Program	Ms. Sadhana Attavar , Vice Chair, Humanitarian Technology Activities, IEEE India Council
Session 2 10:30 AM to 11:00 AM	Demo of winners of Video Contest on Disaster management: Preparedness, Response and Recovery projects.	Prize winners will present their video. Moderator: Dr. Mousiki Kar, Mr. Chengappa
11:00 AM to 11:30 AM	TEA Break	
Session 3 11:30 AM to 1:00 PM	Panel discussions on Disaster response: Preparedness, Relief and Recovery	Panelists 1. Prof. Chandan Ghosh National Institute of Disaster Management 2. Dr. S. Sathyapal Director, INDIAN INSTITUTE OF HAMS 3. Prasad Bhagwan Sevekari Advisor and Interim CEO redR India 4. Mr. Sachin Kumar Rai Principal Engineer, Fire and Smoke Modeling, UL 5. Mr. Amarnath Raja IEEE SIGHT Founder and CEO and Co Founder Inapp Moderator: Dr. K. R. Suresh Nair IEEE India Council Chair
1:00 PM to 1:05 PM	Vote of Thanks	Dr. Rajashree Jain Secretary IEEE India Council

Draft Brochure of MOVE Outreach India Program


MOVE DISASTER RELIEF & OUTREACH
AN IEEE INTERNATIONAL PROGRAM
IEEE INDIA COUNCIL

International Program. Tailored for India
Natural disasters disrupt the lives of individuals, families, and communities. Restoring electricity and communications is of primary importance for those impacted and, often more critically, for the front-line workers braving the odds. This enables medical facilities, information flow, access to critical online services and more to expedite a return to normalcy.




MOVE: Technology for humanity, where and when needed

MOVE India is built around volunteers and a custom designed vehicle to harness the expertise of engineers and the power of technology to create a direct humanitarian impact.

MOVE is foremost an Emergency Relief Program

The MOVE program is designing a custom vehicle that is self-contained and can deliver electricity and communication services rapidly. The first few days after a natural disaster pose the greatest need for such services and MOVE will enable front-line workers to assist the victims better.

IEEE volunteers can also provide technical assistance, where possible, during the initial disaster recovery phase.

MOVE is Education Outreach

When not deployed for disaster relief efforts, the IEEE MOVE vehicle will be taken to schools, events, and other venues to educate the public—showcasing leading technologies and raising awareness about the positive impact these technologies have on society. MOVE will also educate engineers and others on disaster management and preparedness.

A Global MOVE

This is an award-winning program from IEEE that has completed five successful years in the USA. Battle tested in over 20 hurricanes, floods and wildfires MOVE has delivered relief where it is most needed. Even more importantly, with a set up time of just 15 minutes and an ability to operate 24x7 for days at a time, the MOVE truck can be available rapidly and for extended durations.

IEEE India Council is bringing this much needed program to India.



IEEE Foundation
Donor Supported Program




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ieee power charge research

IEEE

Report by: Ms. Sadhana Attavar. VC, Humanitarian Activities, India Council

12.0 IEEE INDIA COUNCIL MEMBERSHIP DEVELOPMENT ACTIVITIES

IEEE India Council Membership Development Committee launched four projects this year:

1. Organize membership development meet
2. Organize Senior membership awareness program
3. Organize Fellow elevation program/ Panel webinar
4. Organize membership development webinar/ talks

Objectives:

1. To improve member retention rate in IC Sections
2. To engage sections in IC MD activities and programs
3. To bring awareness to increase senior membership
4. To increase number of members with Fellow's grade.

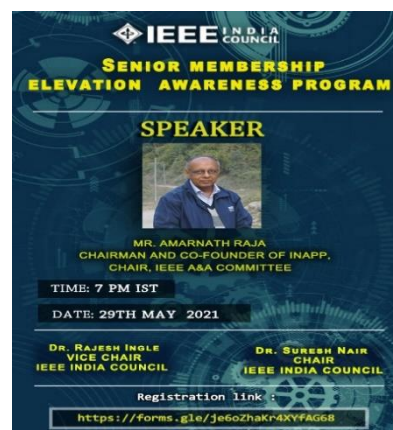
451 IEEE Members attended this event.

IEEE Fellow Elevation Panel Webinar was organized on 30th January 2021. Speaker Names: Dr. P. K. Sinha, Dr. S. V. Kulkarni and Dr. Sushmita Mitra. Takeaways: Knowledge about IEEE Fellow Program. Best Practices in preparations towards becoming IEEE Fellow, covering all aspects one has to be careful, i.e. pre-requisite, endorser, recommenders, personal web page. 232 IEEE Members attended this event.

Senior Membership Elevation Awareness Program was organized on 29th May 2021. Speaker Name: Mr. Amarnath Raja, Chairman and Co-founder of InApp, Chair, IEEE A&A Committee. Takeaways: Knowledge about Senior membership elevation awareness program. Best practices and process.

MEMEBRSHIP DEVELOPMENT KI BAATE: A FIRESIDE CHAT was organized on 20th July 2021. Speaker Names: **Sarada Jayakrishnan**, Chair- IEEE Kerala Section, Dr. Bindumadhava, Chair- IEEE Bangalore Section, Divya M, Dr. N. Kumarappan, Chair- IEEE Madras Section. Takeaways: Overall Practices, Section Plan Development, conducting SWOT Analysis. Best practices, lessons of Kerala section, Madras section, and Bangalore section. 145 IEEE Members attended this event.

Membership development webinar/ talks: Session on Benefits of IEEE Membership was organized on 4th October 2021 and 30th October 2021. Session is also available at <https://www.youtube.com/watch?v=xOLGEtwacNs>. Out of 390 participants, 160 IEEE Members attended this event.



<https://www.youtube.com/watch?v=xOLGETwacNs>



Report by: Dr. Rajesh Ingle. VC, MD, India Council

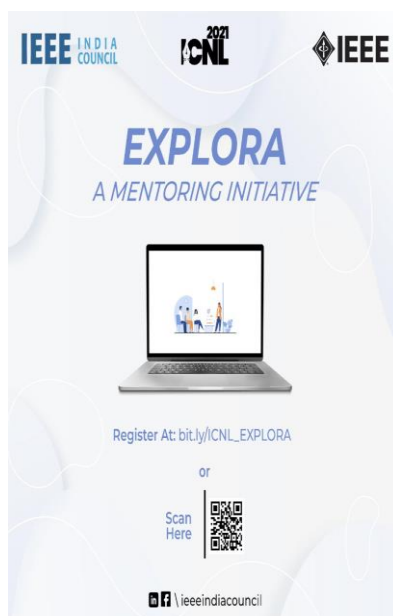
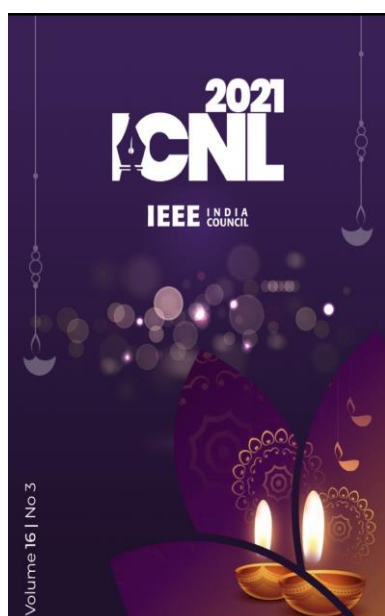
13.0 IEEE INDIA COUNCIL NEWSLETTER

The IEEE India Council Newsletter (ICNL) team was constituted in the month of February, since the very inception the team worked with appreciable team spirit with an aim to increase the viewership of the newsletter by employing creative methods. In the 2021 newsletters the team has tried its best to enhance the design and the content delivered through these quarterlies. ICNL Team was set in motion with the insightful meeting with the India Council leadership which provided direction, under whose guidance the team will come up with 4

editions of the newsletter by January 2022. The team went beyond the newsletter work and assisted various India Council Execom works, contributing on behalf of the IC towards the R10 newsletter and providing designs to the India council execom.

In the latest initiatives taken up by the ICNL team, “Explora” is one such workshop where the India Council Newsletter team guides members from various sections to improve their content and techniques to increase the viewership. The following were highlights of the ICNL:

- 1) Meeting with IC Leadership (28th February 2021): A meeting to discuss the mission and vision of IEEE India Council and ICNL. Dr. Suresh Nair (Chair, IEEE India Council), Prof. Rajashree Jain (Secretary, IEEE India Council) and Prof. Prerna Gaur (Treasurer, IEEE India Council) graced the meeting to motivate the newly formed ICNL team.
- 2) IEEE India Council Newsletter, vol. 16 no. 1 (Jan-Mar 2021) Theme: Unlocking India
Main feature: Interviews with IEEE stalwarts
- 3) IEEE India Council Newsletter, vol. 16 no. 2 (Apr-Jun 2021) Theme: Immunizing India
Main feature: Tribute to lives lost in second wave
- 4) IEEE India Council Newsletter, vol. 16 no. 3 (Jul-Sept 2021)
Theme: Disseminating light
- 5) Contributions to R10 NL
- 6) Explora (Ongoing): Mentoring initiative for students to become proficient in editorial skills that are useful in research and industry.



Report by: Mr. Utkarsh Singh, VC, Newsletter, India Council

14.0 M.V. CHAUHAN ALL INDIA STUDENT PAPER COTNEST 2021

M V Chauhan All India Student Paper Contest 2020 was organized under the aegis of Student Activities of IEEE India Council. The contest was held along the lines of the IEEE INDICON 2020, a flagship conference of IEEE India Council as a special track. The conference provided an opportunity for young minds to come together and discuss the latest developments and future directions in the areas of Engineering and Technology.

A total of 39 papers were received. The level of review process used was the same as that of other technical tracks of Indicon2020. A total of 14 papers were selected for oral presentation. All 14 authors could register for the conference and present their papers during Indicon 2020. The track was held in a virtual mode on 10 the December 2020.

Winners of the M V Chauhan Student Paper Contest 2020 Undergraduate Category -Winner

- Siddhant Banyal, OSEPCloud: Opportunistic scenario-based Security and Privacy enhanced data forwarding framework for Cloud computing
Undergraduate Category-Special Mention
- Robin Koshy Mathews, Charan Kotaprolu, Jeevesh Reddy, Sai Tharun Kakkirala and Gajula Raj Kumar, Design of a Hexa-Directional FSO Communication for UAVs
Post Graduate Category- Winner
- Smriti Rekha Baruah, Outage Analysis of DF based Mixed Hybrid Multi-hop Cooperative System

The proceedings of the track were coordinated by Dr. Rajashree Jain, Vice Chair, Student Activities, IEEE India Council, under the guidance of Dr. S N Singh, Chair, IEEE Council, Dr. Prerna Gaur, General Chair, Indicon 2020.

The awards were announced during the Annual General Meeting of IEEE India Council and winner certificates were shared to the authors on their registered E mail IDs of paper authors.

15.0 SHRI PRALHAD P. CHHABRIA AWARDS 2021

Hope Foundation and Research Centre, in association with the IEEE India Council and Women In Engineering Affinity Group, IEEE Pune Section has instituted the Pralhad P. Chhabria Awards from the year 2017, in memory of Shri Pralhad P. Chhabria, Founder President, Hope Foundation. These awards applaud academic and professional achievements of young women for their accomplishments in the areas of Science, Engineering and Technology.

Shri Pralhad P. Chhabria has always encouraged and supported education of young women. He firmly believed that women have always been far superior to men and have the ability to make whatever they get, greater and providing them with good education, in turn, ensures that they not only share their knowledge and skills with their family; but harness it for the betterment of the community and the nation.

In his memory, the awards are bestowed on the eligible candidates, since 2018. The year 2021 is very special because Hope Foundation and Research Centre and IEEE Collaborators have agreed upon adding an additional number of awards and also the applicant nationality now has been extended so that they can be from any of the SAARC nations.

a. Award Categories

- **Award I - BEST OUTGOING FEMALE STUDENT – Winner** (final year undergraduate student from the Faculty of Science / Technology / Engineering)

Award Includes Cash Award of INR 125000/-, a medal and a citation.*

- **Award II - BEST OUTGOING FEMALE STUDENT- Runner Up** (final year undergraduate student from the Faculty of Science / Technology / Engineering)

Award Includes Cash Award of INR 50000/-, a medal and a citation.*

- **Award III - BEST WOMEN PROFESSIONAL - ENGINEER / SCIENTIST / TECHNOCRAT- Winner** (Working Professional -Early Career Stage)

Award Includes Cash Award of INR 125000/-, a medal and a citation*

- **Award IV - BEST WOMEN PROFESSIONAL - ENGINEER / SCIENTIST / TECHNOCRAT – Runner Up** (Working Professional -Early Career Stage)

Award Includes Cash Award of INR 50000/-, a medal and a citation

<http://hfrce-ieeeawards.org/>

Awardees 2021 : Best Woman Professional (Early Career)

**Winner 2021 : Best Woman Professional
(Early Career)
Dr. Anupama Ray**



Dr. Anupama Ray is an Advisory Research Scientist at IBM Research, India. She is an IBM Quantum Ambassador and a Qiskit Advocate.

**Runner 2021 : Best Woman Professional
(Early Career)
Dr. Lavika Goel**



Dr. Lavika Goel is an IEEE Senior member. She is currently an Assistant Professor in the Department of Computer Science and Engineering at Malaviya National Institute of Technology (NIT), Jaipur, India

Awardees 2021 : Best Outgoing Student

Winner - Best Outgoing Student

Ms. Deeksha M S



Ms. Deeksha M.S is a final year undergraduate student of Electronics and Communication Engineering at the NIT Surathkal

Runner Up Best Outgoing Student Winner

Ms. Annesya Banerjee



Annesya Banerjee, is a Final-Year Undergraduate student in the Department of Electronics and Tele-Communication Engineering at Jadavpur University studying Bachelor of Engineering (B.E.).

16.0 POWERGRID AND IEEE INDIA COUNCIL (IC) EXCELLENCE AWARD

IEEE IC approached POWERGRID with a proposal to establish a joint award titled “**POWERGRID and IEEE India Council (IC) Excellence award**”. POWERGRID, which is one of the largest transmission utilities in the world and which plays a key role in overall development of Indian Power Sector, agreed to the proposal and an MoU (copy enclosed) was signed between IEEE IC and POWERGRID on 26th November.

The following two awards have been institutionalized to recognize outstanding contributions made by individuals to Power Sector in India:

Category-1: For engineers (Indian citizens only) who are professionally active (with no age limit)

Category-2: For engineers (Young Engineer Category, Indian citizens only) up to 35 years age

Each award carries a prize of Rupees 75,000.00 plus a plaque / citation and travel expenses (total Rs. 1,00,000/-).

It has been agreed by both parties that the awards need to be made popular and sought after. These awards are for recognizing individual contributions in areas of Power Engineering which have resulted in significant improvements in Power System Operation/ Control, Asset Management, New Technologies, Renewable Energy Integration, Smart Grids, and Cyber

security. Nominees shall have significant and exceptional contributions in last 5 years in any of the areas mentioned above.

Nominators can be either IEEE Senior Members or Heads of Departments/ Divisions in Organizations. Self-nominations are not allowed. Indian citizens working in organizations in the power sector including power utilities, academia, equipment manufacturing industries and developers of power system software/analytics, or R&D organizations of India can be nominated.

It was agreed by both parties to constitute a Selection Committee consisting of three members (an eminent Power Engineer as Chairman with one member each nominated by PGCIL and IEEE IC) to recommend engineers for the two awards.

The application window for the current year was from 15th November to 25th November. Fourteen and eight nominations were received in category 1 and category 2 respectively.

The following Selection Committee was constituted to evaluate nominations:

1. Prof. M. Ramamoorthy, Founder Director General CPRI, former Director ERDA: Chairman
2. Mr. Abhay Choudhary, Director Projects POWERGRID: Member
3. Dr. R. Nagaraja, MD, PRDC: Member

The Committee met online two times and recommended the following two engineers for the awards:

Senior Engineer Category

1. Dr. Subba Reddy Basappa

Organization: High Voltage Lab, Dept of Electrical Engg, Indian Institute of Science, Bangalore

Title/ Position: Principal Research Scientist

IEEE Membership Number: 80729229 (Sr. Member IEEE)

Nominator: Prof B.S. Rajanikanth, High Voltage Lab, Dept of Electrical Engg, Indian Institute of Science, Bangalore

Young Engineer Category

2. Mr. Phanisankar Chilukuri

Organization: Power System Operation Corporation (POSOCO)

Title/ Position: Manager

IEEE Membership Number: 96478336

Nominator: Mr. K V N Pawan Kumar, Chief Manager, Organization: Power System Operation Corporation (POSOCO)

The awards will be given to the awardees in the inaugural function of the INDICON conference. The awardees have been requested to deliver a talk based on their contributions during the Conference.

IEEE India Council would like to thank POWERGRID for accepting the proposal of IEEE IC to constitute the joint-awards. The Awards Committee of IEEE India Council would like to thank the Selection Committee members for their time and efforts in evaluating nominations. Efforts of Mr. Sanjay Kar Chowdhury, an IC Execom Member, are also acknowledged in coordinating with POWERGRID throughout the process of institutionalization of the awards.

Report by: S. V. Kulkarni, Vice Chair Awards, IEEE India Council

17.0 2020 JOINT AWARD IEI-IEEE ENGINEERING EXCELLENCE AWARD

The Institution of Engineers (India), (IEI) and the Institute of Electrical and Electronics Engineers, (IEEE) have come together under the IEEE Joint Award with National Societies (JANS) initiative to institute a prestigious award for engineering excellence in various fields of engineering and technology. This National Level Award will recognize engineering excellence with benefit to society in the Electrical Engineering Fields and related Technical Areas. The Award would recognize the outstanding individual contribution either in the Government, Industry, Academia, or Research and Development organizations. Work done in India will only be considered for the Award. The contribution can be in the form of innovative products and services, education, research or any other form of serving the community at large by his/her work.

Four highly accomplished and eminent jury members reviewed 27 nominations and deliberated over it. **They selected Shri. P Kunhikrishnan, Director - UR Rao Satellite Centre, ISRO and Distinguished Scientist for 2020 IEI-IEEE Engineering Excellence Award.**

Shri. P Kunhikrishnan Director - UR Rao Satellite Centre, ISRO and Distinguished scientist

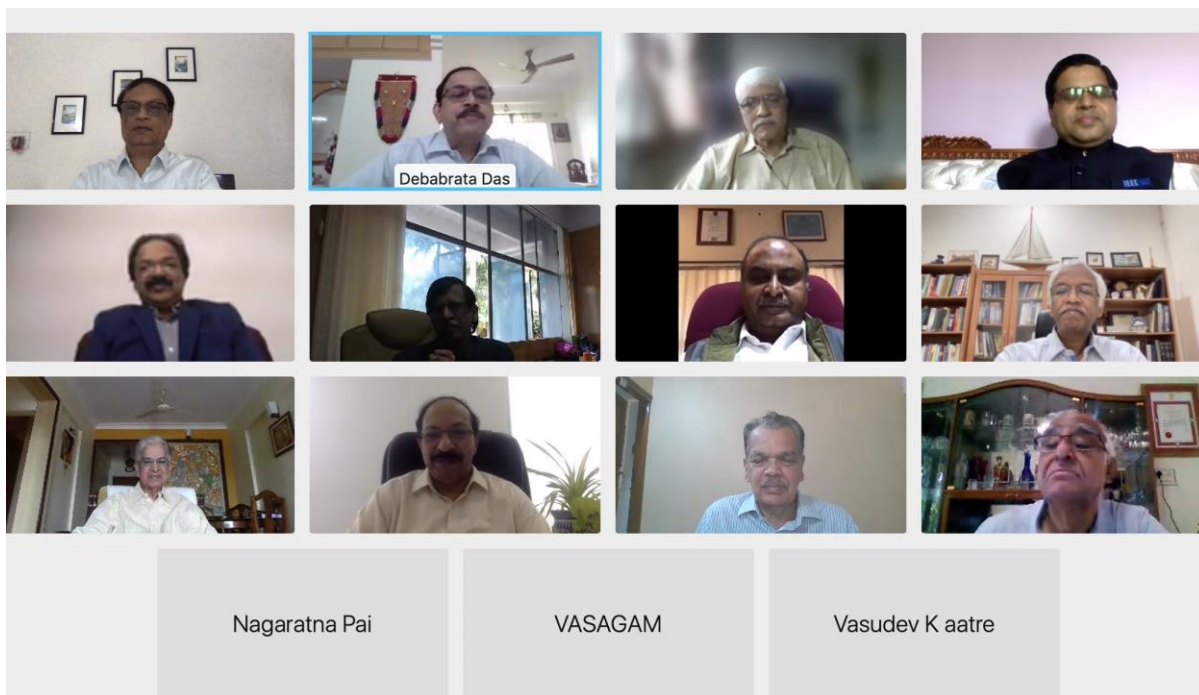
For Significant contributions to successful launch vehicle missions, enhancing infrastructure of India's space-port and developing complex spacecraft required for various applications for the country.

IEEE had the below members in the committee.

Prof. Debabrata Das, Prof. K V S Hari, Mr. Puneet Mishra, Mr. Bindu Madhav, Mr. Harish Mysore (Staff), Ms. Nagaratna Pai (Staff)

Jury Members committee

Padma Vibhushan awardee Prof. Vasudev K. Aatre, Dr. T K Alex, Padmashri awardee Prof. R.M. Vasagam, Prof. H P Khincha



Report by: Mr. Harish Mysore, IEEE India Office.

18.0 EU-REKA 2021

1. Aligning with the UN Sustainability Development Goals (SDG) of Quality Education and Gender Equality, Eu-Reka 2021 aimed at 'lending a hand to raise the National Literacy level' by
 - a) Motivate high school students to pursue higher studies in S & T and thus reduce drop-out rates at high schools
 - b) Encourage girl students in high schools for higher education thus promoting gender equality.
 - c) Work towards educational inclusiveness by reducing disparity between urban and rural literacy at high school levels
 - d) Expose high school students to advanced state-of-art technologies that can be useful for them to lead a better life and
 - e) Provide an opportunity for college students to interact with high school students at urban and rural schools and share their knowledge in advanced technologies
2. College students were used as 'ambassadors of education', so that IEEE's youth power could be harnessed towards this socially-oriented program. To encourage the participants, prizes were awarded for outstanding contributors.

2.2. Conduct of Event:

Eu-Reka 2021 was conducted in three phases:

Phase -1 (August 2021): Event promotion and Registration of Student Teams

A comprehensive E-booklet on Eu-Reka 2021 was prepared and circulated among IEEE members and other college students in various Indian universities. Help was taken from

AICTE, India council and various Indian sections. More than 500 college students registered for the event from 10 Indian sections.

Phase -2 (Sept-Oct 2021): Student Team interaction with schools

Students formed into 145 teams and reached out to schools in rural and urban areas. A target of 4 schools (including at least 1 in rural area) was set for each team. Following were the five technical tracks which were prescribed for interaction of college students with school children

- (a) Technologies for Agriculture, and Food Processing
- (b) Technologies for Environment, Climate change and Natural Disasters
- (c) Medical technologies for health and Wellbeing
- (d) Technologies for Virtual education of Science and Technology
- (e) Technologies for Rural development & Women welfare

Phase -3 (Oct -Nov 2021): Evaluation and close of Activities Phase

Evaluation of the submissions made by the participants was done in two parts. In the first part, submissions received from the participants were sent out to two evaluators drawn from a pool of 50 evaluators, belonging to leading academic institutions and industries. Based on their reports, teams were short listed who were then interviewed (on-line) by a panel of judges and prizes were announced.

The valedictory and prize-giving function was held on 26th Nov 2021. Mr Deepak Mathur, IEEE R-10 Director was the chief guest and gave away the prizes, mementos and certificates to outstanding contributors of the program. The Dignitaries who addressed the audience in virtual mode included Dr KJ Ray Liu, President, IEEE, Sampath Veeraraghavan, IEEE HAC Chair, Ajay Poddar, Chair, IEEE AP- HAC, and Suresh Nair, Chair, India Council. Many local dignitaries including Mr Girish Khilari, Chair, IEEE Pune Section, and Yashwant Gupta, Director, GMRT graced the occasion. The event was held in hybrid mode and was attended physically by about 75 guests.

3. List of prize-winning teams:

3.1. First Prize (Rs.15,000 + Memento each)

- 1. Priyanka, Tamil Nādu
- 2. Aniketh Shenoy K, Karnataka
- 3. Akshaya S, Tamil Nādu
- 4. Krupashree K, Tamil Nādu
- 5. S Sinchana, Karnataka

3.2. Second Prize (Rs.10,000 + Memento each)

- 1. Sriraksha KJ, Karnataka
- 2. Akshay Vijay Munot, Maharashtra
- 3. Tejal Ravindra Gandhi, Maharashtra

4. Aishwarya Shree J, Tamil Nādu

5. Patil Riya Vijay, Maharashtra

3.3. Third Prize (Rs.5,000+ Memento each)

1. Tejashree Mahadev Sakhare, Maharashtra

2. Dharini Raghavan, Karnataka

3. Sarvesh SP, Karnataka

4. BANDARU DIVYASRI, Andhra Pradesh

5. Khushi Prakash Desarda, Maharashtra

6. Harnoor Kaur Khehra, Punjab

7. Amrasha Srivastava, UP

3.4. All prizes were sponsored by M/s Leaps and Scale Foundation, Pune.

3.5. In addition, following volunteers were given prizes for their contribution

1. Eesha Mahod, Maharashtra (First Prize)

2. Akshay Munot, Maharashtra (Second Prize)

3. Tarun Gandrola, Karnataka (Third Prize)

4. Evaluation of the event

Following metrics show success of the event

- No. of College student participants

-- 529 from 10 Indian sections

- No. of participants who qualified by completing 4 or more schools

--- 266 from 7 Indian states

- Total no. of schools outreached

--- 290 from 8 Indian states

- Total no. of school children outreached

--- 15,091 from 8 states

Urban Children: 5401; Rural Children: 9680;

Urban Boys: 2287; Rural Boys : 4670; Total Boys : 6957;

Urban Girls: 3114; Rural Girls : 5010; Total Girls : 8124;

Some Interesting aspects:

- More number of Rural Children compared to urban
- More girl students compared to Boys, both in Urban and Rural areas
- Many college students have gone to more than 4 schools (Though they knew that no extra credit for going to more schools)

- Many college students have gone to all 4 rural schools (Though only 1 rural school was required for qualifying)

The Valedictory function of Eu-Reka 2021 was held on 26th November 2021 (Friday) in a hybrid mode held at physically in Pune. Dr. Deepak Mathur, Director, IEEE R-10 Region was the chief guest and had online presence from Dr. KP Ray Liu, President-elect (2022) Dr. Suresh K Nair, Chairman IEEE India council, Ms. Garcia, Lorena Garcia, and many more were present during the valedictory event.



Report by: Porf. G S Mani, Convener, Eureka 2021.

19.0 IEEE MILESTONE RECOGNITION IN INDIA

The IEEE Milestones program honors significant technical achievements in all areas associated with IEEE. Milestones recognize the technological innovation and excellence for the benefit of humanity found in unique products, services, seminal papers and patents. Each milestone recognizes a significant technical achievement that occurred at least twenty-five years ago and having at least regional impact.

IEEE Milestone Plaque was Unveiled at CESC Headquarters in Kolkata on 18 Dec 2021. This is the 222nd milestone recognized around the world. There are 42 Milestones from Region 10. Australia has one, India has four and Japan has thirty nine in total. The Calcutta Electric Supply Corporation (CESC) is the 4th Milestone and the third one under Kolkata Section.



“The Calcutta Electric Supply Corporation (CESC) established the first commercial electric supply company in South Asia. CESC switched on the 1000 kW thermal power generation plant at Emambagh Lane, Prinsep Street in Calcutta (now Kolkata) on 17 April 1899. This delivered 450/225V DC power for street lighting, residential and office buildings, and the Calcutta Tramways. The event heralded the era of electricity in the Indian Subcontinent” says the citation placed on the wall of CESC house.

Earlier this year on March 30, 2021, Giant Metrewave Radio Telescope (GMRT), 1994 - Pune was recognized as the third milestone in India.



Giant Metrewave Radio Telescope (GMRT),

First Millimeter-wave Communication Experiments by J.C. Bose, 1894-96 – Kolkata and Raman Effect, 1928 - Kolkata were the earlier milestones recognized in India.

Report By Harish Mysore, Director, IEEE India Office

20.0 MEMBERSHIP (AS ON DECEMBER 10, 2021)

India Council Membership 2021 started with 49858. Due to impact of the COVID 19, it saw dip further dip. By March 2021 as membership count was at 34919. The value member engagement initiatives conducted by the council and section leadership has a record change in the membership values. The council has a record of recruitment and retention of its members with a closing count as on 10th December 2021 at 55574

Member Grade	Count of Council
Affiliate	192
Associate Member	388
Fellow	48
Graduate Student Member	5407
Honorary Member	1
Individual	1
Life Fellow	28
Life Member	44
Life Senior Member	183
SA Member	13496
Senior Member	10
Student Member	4380
Student Member	31396
Grand Total	55574

Section	Member Count
Bangalore Section	9670
Bombay Section	3482
Delhi Section	4908
Gujarat Section	1341
Hyderabad Section	5532
Kerala Section	11779
Kharagpur Section	340
Kolkata Section	3586
Madhya Pradesh Section	867
Madras Section	7461
Pune Section	1617
Uttar Pradesh Section	3465
Vizag Bay Section	1526
Grand Total	55574

21.0 INDIA COUNCIL AWARDS 2021

The India Council Awards are administered by IC Awards Committee. The following Awards Committee was set up by Chair – IEEE India Council:

1. Prof. Shrikrishna V. Kulkarni : Chair
2. Prof. Sushmita Mitra : Member
3. Mr. BS Bindhumadhava : Member
4. Dr. Mini Ulanat : Member
5. Dr. Preeti Bajaj : Member
6. Dr. Vijayalata Yellasiri : Member

The Committee met four times (12th October, 15th November, 28th November and 5th December, 2021).

In the first meeting, various awards for the current round were finalized. The features of the Awards Management Portal developed by Prof. Sumit Makwana were explained to the committee. The Call for Nominations/ Applications was also finalized in the first Committee Meeting. Tentative timelines for submission of applications, reviews, and Committee's recommendations were also agreed upon.

In the second meeting held on 15th November, an update on the number of applications received was given and it was decided to extend the deadline for application by two days to 17th November in consultation with IC Chair. Reviewers for various categories of awards were tentatively finalized. In the third Committee Meeting, status of reviews was examined and it was decided to contact reviewers for award categories for which sufficient reviews were not received.

In the fourth meeting held on 5th December, analysis of scores by reviewers was presented. The Committee finalized names after detailed deliberations. CVs and endorsements were also studied for the candidates under consideration. The Committee exercised its prerogative to see that various Sections get represented in awards, particularly for categories of student volunteer/ branch awards. The names recommended for various awards are as under:

A. LTA/ Technology Awards

1. IEEE IC- Life Time Achievement (LTA) for Council Chairs- 2021
Mr. Deepak Mathur Former Chief General Manger ONGC, IC Chair, 2015-2016
2. IEEE IC- LTA for
 - 1 **Section Chair- 2021 – Mr. Sanjay Kar Chowdhury. Kolkata**
 - 2 **Sub Section Chair 2021 – Mr. K.P. Mohandas, Malabar Sub- Section**
3. IEEE IC Technologist of the Year 2021:
Mr. Vinod Karar
CSIR - Central Scientific Instruments Organization, Chandigarh
4. Women technologist of the Year 2021
Ms.Krishna Paul, Intel Technologies
5. Technology Start-up:
Prashant Pansare Founder Rubiscape,

B. Volunteer Awards**Outstanding Volunteer (>35 years)**

1. Narasimhan Venkatesh Silicon Labs, Hyderabad Section
2. Muhammed Kasim S , TKM College of Engineering, Kerala Section
3. Sudip Misra IIT Kharagpur, Kharagpur

Outstanding Student Volunteers

1. S J Ruthvik, Rashtreeya Vidyala College of Engineering, Bangalore Section
2. Shubham Mishra SIES GST. Bombay Section
3. J Ashwin Nair, Maharaja Surajmal Institute of Technology , Delhi section
4. Piyush Kumar Sahoo Delhi Technological University, Delhi section
5. Giriraj Shah, G H Patel College of Engineering and Technology, Gujarat Section
6. Akhilesh Sobilla, Sri Venkateswara College of Engineering, Tirupati Hyderabad Section
7. Navneeth Chandan College of Engineering, Adoor, Kerala Section
8. Rohith Mathew Rajagiri School of Engineering & Technology, Kochi, Kerala Section
9. K Thomas Mathew Marian Engineering College, Kerala Section
10. Shalini Satapathy NIT Durgapur, Kolkata Section
11. Indhumathi G Panimalar Institute of Technology, Madras Section
12. Nupur Kulkarni ,Pimpri Chinchwad College of Engineering, Pune Section

Outstanding WiE Volunteers

1. Rajashree Jain, Symbiosis Institute of Computer Studies and Research, Pune Section
2. Yarlagadda Padma Sai, VNR Vignana Jyothi Institute of Engineering and Technology, Hyderabad, Hyderabad Section

Outstanding YP Volunteers

1. Vamsi Krishna Jadala , Hyderabad Section
2. Jacob Thomas Puthukeril, Kerala Section
3. Archit Goswami, Delhi Section

C. Outstanding Student Branch Awards

1. Government College of Engineering Kannur, Kerala Section
2. Jamia Hamdard University, Delhi Section

Outstanding Emerging Student Branch

1. SICSR Pune Student Branch, Pune Section
2. Sharad Institute of Technology College of Engineering Ichalkaranji, Bombay Section

I take this opportunity to thank all those who have contributed to the entire process. Firstly, I would like to sincerely thank Prof. Sumit Makwana from Gujarat Section for developing the Awards Management Portal. He has single-handedly developed the portal and patiently incorporated suggestions for improvement at various stages of development. The portal has helped to automate the awards management process end-to-end. Few improvements could not be done due to lack of time. However, the portal has worked very well and I have received positive feedback about it. A few Section Chairs have already decided to use it for their Section Awards next year. Further improvements can be done in the portal based on feedback from users.

On behalf of Awards Committee, I would like to also thank enthusiastic and supportive IEEE senior volunteers from various sections, who reviewed applications in a short period of time. For many award categories, we have received three or four reviews. Appreciation certificates would be given to reviewers for their time and efforts in reviewing applications. In all, there were 228 applications/ nominations. Quality of applications was good, and in some categories, there was close contest.

The Awards Committee had to do analysis of reviews in few days, and I sincerely thank the members of the committee for their support and initiatives, which helped completing the task in time. Finally, I would like to thank Dr. Nair for giving a free hand in deciding and executing the process. He was always available whenever guidance was required.

Report by Dr. S V Kulkarni, Vice Chair, Awards, IEEE India Council

Top Voting Section for the year 2021

India Council encourages sections to vote in IEEE Elections “ Top Voting section” is **Gujarat Section**

22.0 SLATE FOR 2022

A nomination committee was constituted in 2021 consisting of following members to decide nomination for 2022 IEEE India Council:

1. S.N. Singh, Chair
2. S.M. Sameer, Member
3. Sudeendra Koushik, Member

The committee, unanimously, resolved to extend the tenure of current IEEE India Council Chair, **Dr. Suresh Nair, for one more year (i.e. for 2022)** as per the provisions of IEEE India Council Bylaws - the Article III, Section 2, after review of performance in the year 2021.

23.0 LIAISON WITH IEEE INDIA OFFICE

Mr Harish Mysore, Director, IEEE India Office in Bangalore, continues his close association with the activities of India Council and is regularly present at IC meetings. India Council acknowledges the various efforts of IEEE India Office, which have added value to members in India.

24.0 FINANCIAL STATUS (AS ON 08.12.2021)

Income	Amount (INR)	Expenditure	Amount (INR)
Opening Balance (as on 01/01/2021)	19,28,229.69	Payment during the year	214,093.00
Receipt during the year	863,953.00	Closing Balance (as on 08.12.2021)	2,578,089.69
Total*	2,792,182.69		2,792,182.69

25.0 ACKNOWLEDGEMENTS:

I wish to place on record my sincere thanks to the IC Chair, Past Chair, Chair-Elect, IC Advisors, Treasurer, Section Chairs, all IC Vice-Chairs and Executive Committee Members, Ombudsman, Editor IC Newsletter, IC and Section volunteers, who have worked hard throughout the year and helped us in organizing meetings, conducting events and taking India Council to new level.



Dr. Rajashree Jain
Secretary, IEEE India Council 2021
December 15, 2021.