ICNL

2020

OCTOBER TO DECEMBER

IEEE INDIA COUNCIL | NEWSLETTER

Message from the Chairman

Prof. Sri Niwas Singh
IEEE IC Chairman 2020

Dear Esteemed IEEE Indian Members,

Wishing you all a Very Happy and Successful New Year 2021 !!!

During this ongoing COVID-19 pandemic, IEEE India Council (IC) wishes for you and your family to be safe. I am grateful to IC Newsletter editor for bringing the fourth edition (last edition of my Chairmanship) of 2020 India Council (IC) newsletter and congratulate all the members for their support and cooperation made IEEE India Council as one of the most vibrant councils across IEEE. As we all know that the IEEE India Council (IC) works in total synchronism and harmony of actions and thoughts.

During this fourth quarter of 2020, IC ExCom meeting was held twice, on 22nd November 2020 and 12st December 2020 in virtual mode using WebEx platform. Due to COVID-19 pandemic, all IC events till December end were converted to virtual events. IC has organized several webinars to keep members engaged and motivated. Under this initiative, IC was able to bring a galaxy of speakers and events during this pandemic situation for the benefit of the IEEE members. IC was also associated with many sections' events during this time. R10-POCO was organised with help of IEEE MCE on 31st October 2020. The INDICON-2020 was held in virtual mode organised by NSUT, New Delhi in collaboration with IEEE Delhi Section during December 11-13, 2020. Due to COVID-19 Pandemic, All India Student, Women in Engineering. Young Professional and Life-member Congress (AISWYLC) was held with the association of Chitkara University, Chandigarh and Delhi Section during December 18-20 and 26-27, 2020.

Some of the major initiatives and achievements of 2020 are as follows:

- Starting of India Council sections/subsections Life - Time Achievement Awards and IC Chair Lifetime Achievement Award.
- Providing IEEE IC Technologist of the Year, Women Technologist of the Year and Technology Start-ups of the Year awards.
- MoU with IE(I) and IEEE President signed
- Starting of Annual India Council International Subsection Conference (IDISCON) from 2020
- Increase in Hope Research Foundation Awards from 2 to 4 and increasing its jurisdiction to all SAARC Countries from 2020.
- IC sections support the IC events and other sections events & formation of the student coordination team
- Starting of WiE International Leadership Summit (ILS) with Subsections/Section.
- Continuously getting the best council for R10 incentive.

I thank the efforts taken by Mr. **Vamsi Krishna J**, Newsletter Editor and his team. I would also like to put on record and thank the Section leaders who have extended their cooperation in providing the inputs to the newsletter. I am sure that with the help of active IEEE volunteers in India, we will be able to make one of the best councils of IEEE.

Prof. Sri Niwas Singh, FIEEE, FIET, FNAE, FIETE, FIE(I), FAvH, LM- ISCEE, LM-CBIP
IEEE India Council Chair 2020 &
Professor, Indian Institute of Technology Kanpur.
(Former Vice-Chancellor, Madan Mohan Malaviya University of Technology Gorakhpur)
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Message from the Editor

Vamsi Krishna Jadala
Editor - Newsletter | IEEE IC

Dear Readers,

Happy New Year 2021.

We at IEEE India Council hope that you're coping up well amidst the COVID19 outbreak and eagerly await the vaccination as we continue to break the chain of community transmission in this new normal. We herewith bring you the final volume of **15th Edition** of IEEE India Council Newsletter 2020. The final issue of ICNL features the message from Chairman 2020, Secretary's report & Message from our incoming 2021 Chairman of IEEE India Council. We thank the chairs of 12 Sections & Executive Committee members of IEEE India Council 2020 for the continued support for the ICNL team. I would also like to place on record to thank **Prof S.N Singh**, Chair-IEEE India Council 2019-20, **Mr. Puneet K. Mishra**, Secretary-IEEE India Council 2019-20, **Dr. R. B. Jadeja**, Treasurer-IEEE India Council 2019-20 for your valuable guidance and support to the ECIM & ICNL Team.

IEEE India Council 2020 AGM was held on 12th December, 2020 on the sidelines of INDICON 2020 jointly hosted by IEEE India Council & IEEE Delhi Section. The minutes of the meeting can be found at: http://bit.ly/icagm2020. Through ICNL, we congratulate recipients of IEEE MGA Awards 2020, Late Shri Pralhad P. Chhabria Awards 2020 jointly awarded by IEEE India Council, IEEE Pune Section & Hope Foundation, Different Societies Students/Members Scholarships & Awards.

We hope with the revamped ICNL versions, we have stood up to the expectations of the members & delivered the best to make it convenient, accessible, readable & aesthetic in nature. I would like to place on record to the team of ICNL & ECIM which includes Ms. **Rajeshwari Reddy**, Ms. **Yashaswi Vennamaneni**, Mr. **Siddhant Banyal**, Mr. **Vaibhav Kothi**, Mr. **Sandeep Dogiparthi** & Mr. **Rutwik Jain** for their endearing support and value addition in delivering a vibrant 15th Edition of IEEE India Council Newsletter 2020. We hoped to make ICNL & Website of the IEEE India Council more transparent and interactive to our members. We thank all our readers for their constant support and trust in this young team who made everything possible to bring to your screens an exhaustive coverage of various events and activities of IEEE India Council for 2020. We wish the incoming team the very best and we look forward to serving you again in the future prospective avenues.

Thank You.

Vamsi Krishna Jadala,
Vice Chair - ECIM, Editor - Newsletter | IEEE India Council
vamshikrishnaj@ieee.org

Message from the Chairman, 2021

Dr. K. R. Suresh Nair
IEEE IC Chairman 2021

I feel extremely privileged to reach you as Chair of IEEE India Council. My predecessors have taken India Council to greater heights and it is fortunate to have some of them in the current team to advise, guide and suggest good governance. Following the path, I have set some targets to achieve, which will benefit all the Sections within the council.

Among the 12 sections, we have so many leading experts in specific technology domains, and it is our desire to make IEEE India Council a recognized body, which can contribute towards Government policy decisions in the technology arena. With the support of educationalists, the council will also put effort towards improvement of engineering education within the country.

There are many sections doing great with very many innovative programs. And the council will try to translate all those to some of the weaker sections. A thorough collaboration and association among all Sections is the major support council can offer.

Many IEEE Volunteers have volunteered during disaster time, whether it was flood, earthquake, by providing technology help like setting up temporary communication, HAM radio, solar lanterns, cell phone chargers, etc. Setting up of a national disaster recovery team across the country is also seriously planned.

The IC NewsLetter is an apt media for all of us to know about various activities across the council, and we will soon add some more technology features in this Newsletter.

Look forward to close association of the members across the council, and request support from each one of you. It means a lot to me.

Best Regards

Dr. K. R. Suresh Nair
Chair, IEEE India Council 2021

Secretary Report 2020

2020 was the year of many unique initiatives and brought many achievements to IEEE India Council. During the beginning of the year, the Chairman of IEEE India Council outlined initiatives, plans and goals for the Council. With the help of active and dynamic volunteers, council has been able to deliver on many of its plans and conducted several activities with the help of constituents sections.

Council was successful in conducting Webinar Series on Atma Nirbhar Bharat, IEEE PES Day Celebrations, Webinar on Role of India Space Program in New Space Age, 4 YP Webinar, 4 WiE Webinar, 5 SCT Webinar and1 EA Webinar. These events were a true success for the relentless efforts of volunteers.

On technical front, Council along with Delhi Section is organizing it's flagship conference INDICON at NSUT New Delhi. 850 papers were received and 442 papers were accepted after technical reviews. To recognize subsections and to provide opportunity to host and organize technical conferences of International level an New series of conference, namely INDISCON is conceived. The first INDISCON was organized by VIZAG Section during Oct 2020 and 57 papers were presented. Second INDISCON will be organized by Nagpur Subsection in 2021. With advancements to social media, Council has invested time and resources to keep its website updated and Facebook feeds active. This has enabled many of our members to stay connected.

NEW INITIATIVES: During 2019-2020 Council has started following new initiatives:

1. India Council sections/subsections Life-Time Achievement Awards and IC Chair Lifetime Achievement Award.

2. Industry Awards:
   - IEEE IC Technologist of the Year
   - Women Technologist of the Year
   - Technology Start-up of the Year

3. Modifications in IC Bylaws with following updates:
   - Formation of Core Committee
   - Inclusion of Advisor(s) in the ExCom and Core committee
   - Closure of IC Society Chapters
   - Inclusion of various Vice-Chairs (VC) in the bylaws

4. Printing of IC Annual Report

5. MoU with IE(I) and IEEE. IEEE President signed the same.

6. Opening of e-notices to the members of IEEE IC with charge basis and two free e-notices to sections.

7. Annual India Council International Subsection Conference (IDISCON) from 2020

8. Increase in Hope Research Foundation Awards from 2 to 4 and widening of its jurisdiction to all SAARC Countries from 2020.

9. Collaborative Events along with IC sections

10. Starting of WiE International Leadership Submit (ILS) with Subsections/Section.

11. Continuously maintaining receipt of the highest council incentive from R10.

IEEE IC EXECOM 2020

The India Council Executive Committee – 2020 comprises the following Members along with all the Section Chairs as its ex-office members.

Sr. No.	Name	Role
01.	Prof. Sri Niwas Singh	Chair
02.	Mr. Puneet K Mishra	Secretary
03.	Dr. R.B. Jadeja	Treasurer
04.	Prof. Sivaji Chakravorti	Immediate Past Chair
05.	Dr. Suresh Nair	Chair-Elect
06.	Mr. Deepak Mathur	Advisor
07.	Mr. R K Asthana	Ombudsman
08.	Prof. Sujit K Biswas	Vice Chair - Technical Activities
09.	Dr. Rajashree Jain	Vice Chair - Student Activities
10.	Prof. KV Srivastava	Vice Chair - Awards
11.	Dr. Y V S Lakshmi	Vice Chair - WIE
12.	Mr. Archit Goswami	Vice Chair - YP & SCT
13.	Prof. Preeti Bajaj	Vice Chair - Branding
14.	Mr. Sabarinath Pillai	Vice Chair - Professional Activities
15.	Dr. Amit Kumar	Vice Chair - Section & SS Coordinator
16.	Mr. N Venktesh	Vice Chair - Industry Relations
17.	Dr. Bindumadhava	Vice Chair - Conferences
18.	Dr. D. Devaraj	Vice Chair - Educational Activities
19.	Dr Vinit Kotak	Vice Chair - Membership Development
20.	Dr. Chankya Jha	Vice Chair - HTA
21.	Dr. Satish Kumar Singh	Vice Chair - OOSP
22.	Mr. Vamsi Krishna Jadala	Vice Chair - ECIM & Editor - Newsletter
23.	Mr. Harish Mysore	India Office

Section Chairs

Sr. No.	Name	Role
01.	Mr. Puneet Kumar Mishra	Section Chair
02.	Dr. Prerna Gaur	Section Chair
03.	Prof. Maniklal Das	Section Chair
04.	Dr. Amit Kumar	Section Chair
05.	Dr Debabrati Sen	Section Chair
06.	Mr. Sanjay Kar Chaudhary	Section Chair
07.	Dr. Kumarappan	Section Chair
08.	Mr. Girish Khilari	Section Chair
09.	Dr Asheesh K Singh	Section Chair
10.	Ms. Sarada Jayakrishnan	Section Chair
11.	Prof. Surya Dolla	Section Chair
12.	Dr. Lakshminarayana Sadasivuni	Section Chair

IEEE IC EXECOM Meetings

Total 7 EXECOM meetings and 1 Core committee meeting was conducted for smooth operation of council activities. Last EXECOM Meeting and AGM is planned on December 12, 2020 in hybrid mode on the sidelines of INDICON 2020.

Sr. No.	Date	Name	Role
01.	28/01/2020	Core Committee Meeting	Online Mode
02.	15/02/2020	EXECOM Meeting	MMMUT, Gorakhpur
03.	19/04/2020	EXECOM Meeting	Online Mode
04.	21/06/2020	EXECOM Meeting	Online Mode
05.	16/08/2020	EXECOM Meeting	Online Mode
06.	19/09/2020	EXECOM Meeting	Online Mode
07.	22/11/2020	EXECOM Meeting	Online Mode
08.	27/11/2020	EXECOM Meeting	Online Mode
09.	12/12/2020	EXECOM Meeting	NSUT, Delhi (Physical and Online Mode)
10.	12/12/2020	AGM 2020	NSUT, Delhi (Physical and Online Mode)

IEEE WiE ILS Nagpur 2020

With the approval from Global WIE, IEEE Women in Engineering International Leadership Summit 2020 Nagpur was planned, and executed virtually during 6 - 8 November 2020 with the theme "Ignite, Inspire & Engage". The event was hosted by IEEE Nagpur Subsection in association with IEEE India Council & was supported by IEEE Pune Section, IEEE Delhi Section & IEEE UP Section with Technical & workshop Partnership by IBM & Resource Partner IIIT, Nagpur. Dr. Preeti Bajaj was organizing Chair & Honorary chair for the summit was Dr. S. N. Singh, Chair India Council. Dr. AmoliBelsare, Vamsi Jadala, Ravikumar Tiwari, Dr. Prachi Palsodkar, Pooja Jain & Dr. Manoj Shanti were the co-chairs for the summit who executed the online program. IEEE WIE ILS 2020 has provided regional opportunities to all participants who fostered networking, mentor-ship, and collaboration. The summit began with pre-summit workshop on Blockchain by IBM, and Keynotes on the theme of summit, track speeches on Innovation, Empowerment, Social Leadership & Engagement, panel discussions on WIE Leadership, work flexibility etc. on Day 2 & Day 3 of the summit. 65 experts, entrepreneurs, mentors from technology industry, academicians and IEEE who are themselves change makers of the society (mix of locals, national and international speakers and journey through rural India to the frugal innovations) were called at the summit. Event witnessed 65 speakers from 15 plus countries and 700+ registrations from 200 plus organizations and viewers have crossed in all 10k. The summit was inaugurated at the hands of Akinori Nishihara, Director Region 10 & Deepak Mathur, Director-Elect Region 10. Prof. S N. Singh, Chair, IEEE India Council was also present as Honorary Chair for the Summit. Prof. B. Ravi, Founder & PI-BETiC, IIT-Bombay delivered the inaugural keynote on the topic "Innovation and Entrepreneurship; Success Stories of BETiC's Biomedical Startup".

Mary Ellen Randell, FIEEE, President/CEO of Ascot Technologies Inc USA delivered the keynote address in "Inspire & Engage". Closing ceremony of the summit was conducted virtually on 8th November 2020 at 3:15pm. Dr. Suresh Nair, IEEE India Council Chair Elect & Dr. Lance Fung, Director Elect R10 2021-22 graced the valedictory function as chief guest and guest of honor. There was a keynote address by Dr. Lance & he emphasized on "Ignite, Inspire & Engage via IEEE". The summit was attended by a large number of volunteers, IC members and students and an open community. The feedback from speakers is very high.

Membership (As on December 1, 2020)

India Council Membership has reduced from 49900 to 41082, YoY with a rate of 17.67% approximately. This is mainly due to COVID-19 Pandemic. Following are grade wise comparison in various member grade levels.

Member Grade	Count		Member Grade	Count	
	2019	2020		2019	2020
Honorary Member	01	01	Standards Association Member	14	13
Life Fellow	29	29	Life Member	40	45
Fellow	48	46	Member	13374	11769
Life Senior Member	165	179	Graduate Student Member	4900	4522
Senior Member	2790	3577	Student Member	28083	20457
Affiliate	149	138	Associate Member	424	311

Section Wise Membership details are provided below:

Section	Membership	Section	Membership
Bangalore	8588	Kharagpur	320
Bombay	3866	Kolkata	3167
Delhi	3817	Madras	5390
Gujarat	1128	Pune	980
Hyderabad	3630	Uttar Pradesh	2479
Kerala	6568	Vizag Bay	1027

India Council Awards

The India Council Awards are administered by the IC Awards Committee. In order to recognise the dedicated efforts of IEEE Volunteers IEEE India Council following awards were declared.

IEEE IC- LifeTime Achievement (LTA) for Council Chairs - 2020

Fakir Chand Kohli, Bombay Section
Director Region 10- 1973-74 & Founder Chair, India Council

IEEE IC- LTA for Sub-Section I Section Chairs- 2020

Dr. K. Ramakrishna
Bangalore Section

Prof. S. Mukhopadhyay
Delhi Section

Dr. B. L. Deekshatulu
Hyderabad Section

Prof. V. K. Damodaran
Kerala Section

Prof.S. C. Srivastava
Uttar Pradesh Section

Dr. Preeti Bajaj
Nagpur Sub-Section

IEEE IC – Outstanding Volunteer (>35 years) Awards

Dr. D N Sujatha
Bangalore Section

Dr. Amit Kumar
Hyderabad Section

Dr. A. Suhair
Kerala Section

Dr. Nithyavathy N
Madras Section

Ms. Surekha Deshmukh
Pune Section

IEEE IC – Outstanding YP Volunteer Awards

Ms. Shaik SuraiahThaseen
Bangalore Section

Ms. Ashwini Appaji M
Bangalore Section

Mr. Jeet Dagha
Bombay Section

Mr. Akash Nambiar
Kerala Section

Mr. Shankar J
Kerala Section

Mr. Nishant Kumar
Kolkata Section (Consolation)

Mr. Sandeep Vuddanti
Vizag Section (Consolation)

IEEE IC – Outstanding Student Volunteer Awards

Mr. Yeshwanth L M
Bangalore Section

Mr. Shashank Simha M R
Bangalore Section

Mr. Chinmay Tompe
Bombay Section

Mr. Virendra Pratap Singh
Delhi Section

Ms. Ritika Jain
Delhi Section

Mr. Dhruvinsinh Rathod
Gujarat Section

Mr. Srikar Gundu
Hyderabad Section

Ms. Angha N
Kerala Section

Mr. Shylesh S
Kerala Section

Ms. Anishka S
Madras Section

Mr. Vineeth Vijayan
Uttar Pradesh Section

Ms. Aditi Khaire
Pune Section

IEEE IC – Outstanding WiE Volunteer Awards

Ms. Anupma Thakur
Delhi Section

Ms. Anishka S
Madras Section

Technologist & Technology Start-up Awards

Er. Rajeev Jyoti, ISRO
IEEE IC Technologist of the Year 2020

Dr. Suparna Bhattacharya
Women technologist of the Year 2020

McGeeks Mechatronics Pvt. Ltd & Aye AI
Technology Start-up

Outstanding Student Branch Awards

IEEE Student Branch Chengannur College of Engineering, Kerala Section
IEEE IC – Outstanding Student Branch Award

IEEE Student Branch Silver Oak University, Gujarat Section
IEEE IC – Outstanding Emerging Student Branch Award

Slate for 2021

The nomination Committee for the year 2021 was formed by IEEE IC Chair as per By-laws of IC. The IC Nomination Committee is as below:

- Chair – Prof. Sivaji Chakravorti, Immediate Past Chair of IC
- Member – Dr. S. M. Sameer, Past Chair of Kerala Section
- Member – Prof. J Ramkumar, Past Chair of UP Section

The committee has unanimously resolved to nominated Prof. Debabrata Das of Bangalore Section as IC Chair-Elect 2021. No Petition was received within the stipulated time as per IC Bylaws. In view of this Nomination Committee declared Prof. Debabrata Das as IC Chair-Elect 2021.

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.

Financial Status (as on 09.12.2020)

Income	Amount (INR)	Expenditure	Amount (INR)
Opening Balance	14,24,853.69	Payment during the year	3,27,228.00
Receipt during the year	7,06,233.00	Closing Balance	18,03,858.69
Total*	**21,31,086.69**		**21,31,086.69**

* Excluding IEEE R10 Incentive of US$2000 (INR 1, 50,000 approx.). Expected to be received soon.

Acknowledgements

I wish to place on record my sincere thanks to the IC Chair, Past Chair, Chair-Elect, 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.

Puneet Kumar Mishra
Secretary, IEEE India Council 2020

IEEE IC Council Office Bearers

Dear esteemed IEEE India Council Members,

List of India Council Officers updated as on 20-12-2020 is given below. All Members, especially senior-most Members are requested to check the list for its correctness. Some IEEE Members active during the period between 1976 and 1990 may personally know many Officers & might have been associated with them. All such Members are requested to kindly let me know if there is some correction needed.

Rajendra K. Asthana,

Ombudsman, IEEE India Council

asthana@ieee.org

Year	Chair	Immediate Past Chair	Executive V C	Secretary – cum – Treasurer	
				Secretary	Treasurer
1976	F. C. Kohli (Bombay)	None	T. R. Subramanian (Bombay)	H. B. Shah (Bombay)	
1977	F. C. Kohli (Bombay)	None	T. R. Subramanian (Bombay)	H. B. Shah (Bombay)	
1978	F. C. Kohli (Bombay)	None	T. R. Subramanian (Bombay)	H. B. Shah (Bombay)	
1979	F. C. Kohli (Bombay)	None	D. N. Purandare	H. B. Shah (Bombay)	
1980	F. C. Kohli (Bombay)	None	T. V. Balan (Hyderabad)	H. B. Shah (Bombay)	
1981	J. Kirith Sheth (Bombay)	F. C. Kohli (Bombay)			
1982	J. Kirith Sheth (Bombay)	F. C. Kohli (Bombay)			
1983	T. V. Balan (Hyderabad)	J. Kirith Sheth (Bombay)			
1984	T. V. Balan (Hyderabad)	J. Kirith Sheth (Bombay)	M. R. Sitharaman (Bangalore)	S. C. Sahasrabudhe (Bombay)	R. K. Shankar (Bombay)
1985	T. V. Balan (Hyderabad)	J. Kirith Sheth (Bombay)	M. R. Sitharaman (Bangalore)	S. C. Sahasrabudhe (Bombay)	R. K. Shankar (Bombay)
1986	T. V. Balan (Hyderabad)	J. Kirith Sheth (Bombay)	H. S. Sonawala (Bombay)	R. K. Shankar (Bombay)	
1987	P. V. S. Rao (Bombay)	T. V. Balan (Bombay)	H. S. Sonawala (Bombay)	R. K. Shankar (Bombay)	
1988	P. V. S. Rao (Bombay)	T. V. Balan (Bombay)	H. P. Khincha (Bangalore)	G. D. Dubey (Madras)	
1989	P. V. S. Rao (Bombay)	T. V. Balan (Bombay)	H. P. Khincha (Bangalore)	G. D. Dubey (Madras)	
1990	P. K. Patwardhan (Bombay)	P. V. S. Rao (Bombay)	M. Ramamoorthy (Hyderabad)	C. G. Ravi (Bombay)	
1991	Harbans L. Bajaj (Delhi)	P. K. Patwardhan (Bombay)	C. G. Ravi (Bombay)	Rajendra K. Asthana (Delhi)	
1992	Harbans L. Bajaj (Delhi)	P. K. Patwardhan (Bombay)	C. G. Ravi (Bombay)	Rajendra K. Asthana (Delhi)	
1993	Harbans L. Bajaj (Delhi)	P. K. Patwardhan (Bombay)	C. G. Ravi (Bombay)	Rajendra K. Asthana (Delhi)	
1994	C. G. Ravi (Bombay)	Harbans L. Bajaj (Delhi)	H. Kalyanasundaram (Bombay)	Kranti Kumar (Bombay)	Rajendra Asthana (Delhi)
1995	C. G. Ravi (Bombay)	Harbans L. Bajaj (Delhi)	H. Kalyanasundaram (Bombay)	Kranti Kumar (Bombay)	Rajendra Asthana (Delhi)
1996	C. G. Ravi (Bombay)	Harbans L. Bajaj (Delhi)	Mruthyumjaya (Bangalore)	Kranti Kumar (Bombay)	
1997	R. K. Bagga (Hyderabad)	C. G. Ravi (Bombay)	Akshai Aggarwal (Gujarat)	N. V. Rao (Hyderabad)	
1998	R. K. Bagga (Hyderabad)	C. G. Ravi (Bombay)	Akshai Aggarwal (Gujarat)	N. V. Rao (Hyderabad)	
1999	Akshai K. Aggarwal (Gujarat)	R. K. Bagga (Hyderabad)	P. K. Srivastava (Delhi)	Ashok R. Pandya (Gujarat)	
2000	Akshai K. Aggarwal (Gujarat)	R. K. Bagga (Hyderabad)	P. K. Srivastava (Delhi)	Ashok R. Pandya (Gujarat)	
2001	P. K. Srivastava (Delhi)	Akshai K. Aggarwal (Gujarat)	V. K. Damodaran	Rajendra K. Asthana (Delhi)	
2002	P. K. Srivastava (Delhi)	Akshai K. Aggarwal (Gujarat)	R. Muralidharan (Bombay)	Rajendra K. Asthana (Delhi)	
2003	R. Muralidharan (Bombay)	P. K. Srivastava (Delhi)	Rajendra Asthana (Delhi)	Raju Hira (Bombay)	
2004	R. Muralidharan (Bombay)	P. K. Srivastava (Delhi)	Rajendra Asthana (Delhi)	Raju Hira (Bombay)	
2005	Rajendra K. Asthana (Delhi)	R. Muralidharan (Bombay)	N. T. Nair	Ram Nath (Delhi / San Francisco)	
2006	Rajendra K. Asthana (Delhi)	R. Muralidharan (Bombay)	N. T. Nair (Kerala)	Ram Nath (Delhi / San Francisco)	
2007	N. T. Nair (Kerala)	Rajendra K. Asthana (Delhi)	Kasi Rajagopal (Bangalore)	K. G. Satheesh Kumar	
2008	N. T. Nair (Kerala)	Rajendra K. Asthana (Delhi)	Kasi Rajagopal (Bangalore)	K. G. Satheesh Kumar (Kerala)	
2009	Kasi Rajagopal (Bangalore)	N. T. Nair (Kerala)	Suresh Chander Pal (Chennai)	Rama Krishna (Bangalore)	
2010	Kasi Rajagopal (Bangalore)	N. T. Nair (Kerala)	Suresh Chander Pal (Chennai)	Rama Krishna (Bangalore)	

2011	Ram Gopal Gupta (Delhi)	Kasi Rajagopal (Bangalore)	M. Ponnavaiko (Chennai)	V. R. Singh (Delhi)	
2012	Ram Gopal Gupta (Delhi)	Kasi Rajagopal (Bangalore)	M. Ponnavaiko (Chennai)	V. R. Singh (Delhi)	
2013	M. Ponnavaikko (Chennai)	Ram Gopal Gupta (Delhi)	Deepak Mathur (Gujarat)	Major Chandrasekharan V.V. (Madras)	
2014	M. Ponnavaikko (Chennai)	Ram Gopal Gupta (Delhi)	Deepak Mathur (Gujarat)	Major Chandrasekharan V.V. (Madras)	
2015	Deepak Mathur (Gujarat)	M. Ponnavaikko (Chennai)	Sivaji Chakravorty (Kolkata)	Anthony Lobo (Mumbai)	Anil Roy (Gujarat)
2016	Deepak Mathur (Gujarat)	M. Ponnavaikko (Chennai)	Sivaji Chakravorty (Kolkata)	Anthony Lobo (Mumbai)	Anil Roy (Gujarat)
2017	Sivaji Chakraborty (Kolkata)	Deepak Mathur (Gujarat)	S. N. Singh (UP)	Preeti Bajaj (Mumbai)	S. M. Sameer (Kerala)
2018	Sivaji Chakraborty (Kolkata)	Deepak Mathur (Gujarat)	S. N. Singh (UP)	Preeti Bajaj (Mumbai)	S. M. Sameer (Kerala)
2019	S. N. Singh (UP)	Sivaji Chakraborty (Kolkata)	Suresh Nair (Kerala)	Puneet Mishra (Bangalore)	R. B. Jadeja (Gujarat)
2020	S. N. Singh (UP)	Sivaji Chakraborty (Kolkata)	Suresh Nair (Kerala)	Puneet Mishra (Bangalore)	R. B. Jadeja (Gujarat)
2021	Suresh Nair (Kerala)	S. N. Singh (UP)	Debabrata Das	Rajashree Jain	Prerna Gaur
2022	Suresh Nair (Kerala)	S. N. Singh (UP)	Debabrata Das	Rajashree Jain	Prerna Gaur

INDICON 2020

The 17th IEEE India Council International Conference INDICON2020 is the one of the biggest virtual conferences ever organised by IEEE India council. Even in the time of a pandemic participants could have get together and celebrated the power of research and technology on an international level. The most awaited time of IEEE INDICON was on 11th to 13th Dec, where around 500 researchers of IEEE India and all over the world showcased innovative contributions.

The 17th edition of IEEE INDICON started successfully with tutorials on 10th December, 2020 starting at 10 AM. Chief guest, of the inauguration was Dr Radhakrishnan, former chief ISRO, keynote speaker Prof. Toshio Fukuda, Guest of honour, Er. Rajeev Sharma, CMD EESL, R10 Director, Akinori Nishihara, Chief Patron, Hon'ble Vice chancellor, Prof. J. P. Saini , Patron INDICON2020, Prof. S. N. Singh, and Prof Bhim Singh, Prof. Prerna Gaur, General Chair INDICON 2020, Dr Puneet Mishra, Awardees of India Council, other dignitaries from IEEE Region 10, EXECOM members and Participants from around 10 countries attended the Conference.

INDICON 2020 started with three Tutorials of Prof. J. R. Saini, Director Symbiosis Pune, on "Natural language processing", Dr. C. P. Ravikumar from Texas Instruments on "Changing role of Semiconductor verification and Test in modern times'' and Dr. Aman Jha, from S T Microelectronics on "Electric Vehicles and Smart Semiconductor Lighting" on 10th Dec. In all 12 Plenary Sessions were successfully conducted.
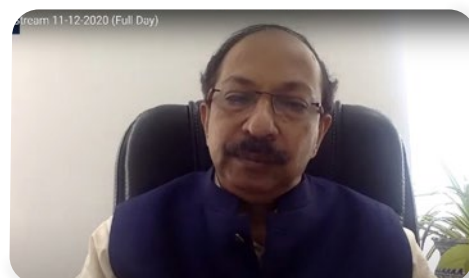
The Speakers were R 10 Director, Dr Lance Fung, Chair Elect India Council, Dr Suresh Nair, Prof Shiban Koul, IIT Delhi, Prof Bhim Singh IIT Delhi, Dr Meenu Sibnghal, Vice President Schneider Electric, Dr Preeti Bajaj,Vice Chancellor, Galgotia University, Dr Puneet Mishra, ISRO, Prof Supavadee, Prof Takako Hashimoto, Prof K Subhramanian, Prof Celia Shehnaz from Bangladesh Section. M V Chauhan paper contest was organised successfully on 10th Dec at 3 PM in which a large number of participants was seen this year. The papers were reviewed by the reviewers of INDICON2020 only. We received 850 papers out of which 411 registrations were accepted finally after rigorous review work at least by three reviewers from leading institutions and industry.

The papers were presented in 57 sessions in three days in which three WIE paper tracks were successfully organised. A panel discussion on the emerging topic was organised, on 13th Dec'2020 at 3 PM in which leading women from Industry, start-ups, DRDO, Indian Railways Academia participated from India and abroad, Prof Takako, Prof Celia Shehnaz, Aishwarya, Chair WIE Singapore, Prof Preeti Bajaj, Prof Prerna Gaur, Prof Rachana Garg, Dr Manpreet Kaur, Dr Rashmi Agarwal, Dr Sapna Gambhir were amongst the Panellists. Congratulations to all volunteers of IEEE India Council, IEEE Delhi Section and WIE team

M V Chauhan All India Student Paper Contest 2020

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 10th December 2020.

Winners of the M V Chauhan Student Paper Contest 2020

Undergraduate Category - Winner
[1570652974] **Siddhant Banyal**, "OSEPCloud: Opportunistic scenario-based Security and Privacy enhanced data forwarding framework for Cloud computing"

Undergraduate Category - Special Mention
[1570654145] **O. A. Ramwala**, "Tonsillitis based Early Diagnosis of COVID-19 for Mass Screening using One-Shot Learning Framework."

Post Graduate Category - Winner
[1570652556] **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 Email IDs of paper authors.

M. V. CHAUHAN
ALL INDIA STUDENT PAPER CONTEST

List of paper and details presented during the Track:-

01. PaperID: 1570653614 **Pushkar Khetrapal(P),** "Classification of Motor Imagery Waves Using Hybrid-Convolutional Neural Network"

02. PaperID: 1772767 **Atmadeep Banerjee(P)** "Meta-DRN: Meta-Learning for 1-Shot Image Segmentation"

03. PaperID: 1570664446 **Aanchal Sahu(P)** "A Dual Approach for Credit Card Fraud Detection Using Neural Network and Data Mining Technique"

04. PaperID: 1570652556 **SMRITI REKHA BARUAH(P)** "Outage Analysis of DF based Mixed Hybrid Multi-hop Cooperative System"

05. PaperID: 1570652974 **Siddhant Banyal(P)** "OSEPCloud: Opportunistic scenario-based Security and Privacy enhanced data forwarding framework for Cloud computing"

06. PaperID: 1570653675, **Chirag Kyal(P)** "Performance-Based Analogising of Needleman Wunsch Algorithm to Align DNA Sequences Using GPU and FPGA"

07. PaperID:1 570670356 **Arka Prava Roy** "Eyes speak out Mind: Deep models for Gaze-based Analysis of Bilingual And Monolingual Reading"

08. PaperID: 1570650023 **Pearl Pullan(P), Krisha Mehta, Muskan AroraI**, "Intelligent Elevator Design Using PLC"

09. PaperID: 1570655624 **Shreyanka S(P)** "GSupernumerary Robotic arms for the blind"

10. PaperID: 1570649860 **Aditya Mangesh Baradkar (P)** "Mask Disposal Bin"

11. **Karumuri Lohit Sai(P)** "Smart Room"

12. PaperID: 1570662620, **Chintakindi Balaram Murthy(P), Dr. Md. Farukh Hashmi (NITW)** "RealTime Pedestrian Detection Using Robust Enhanced Tiny."

13. PaperID: 1570654145M. **Himansh, P. Dalal, O. A. Ramwala(P), P. Parikh, U. Dalal, M. C. Paunwala, C. N. Paunwala,** "Tonsillitis based Early Diagnosis of COVID-19 for Mass Screening using One-Shot Learning Framework "

14. PaperID: 1570657065, **Robin Koshy Mathews, Charan Kotaprolu, Jeevesh Reddy, Sai Tharun Kakkirala and Gajula Raj Kumar,** "Design of a Hexa-Directional FSO Communication for UAVs"

AISYWL Congress 2020 - Life Members Track

All India Student, Young Professional, Women-in-Engineering & Life Members Congress 2020 (AISYWLC20), a joint Congress of IEEE India Council & IEEE Delhi Section / Chitkara University was finally held on December 18, 19, 20, 26 & 27th December 2020 in virtual Mode. Congress was inaugurated on 18th December by Chief Guest Mr. Sanjeev Bikhchandani, founder Naukri.com & Padma Shree Awardee 2020. Inaugural ceremony was addressed by Prof. Archana Mantri, VC Host Institution, Prof. Prerna Gaur, Chair IEEE Delhi Section, Prof. S. N. Singh, Chair, IEEE India Council & Dr. H L Bajaj, Former IEEE Region 10 Director. Plenary Talk on Overview was delivered by Prof. Akinori Nishihara, Director - IEEE Region 10. Inauguration was followed by Cultural Performance & IEEE Quiz.

First Life Member session (LM-1 – Experience & Expertise sharing) by Life Members was held on 20-12-2020

Mr. Ekande, Chair, LMAG Delhi welcomed the participants. Chief Guest Prof. Akinori Nishihara, Director, Region 10 delivered the keynote address, shared his views on LMs and inaugurated the Session.

Life Members Dr. S. Mukhopadhyay (Delhi), Dr. Harbans L. Bajaj (Past Chair Delhi Section & India Council and Past Director, Region 10), Prof. V. K. Damodaran, Past Chair, R10 LM committee, Kerala, Prof S V Sankaran, Past Chair, R10 LM Committee, Bangalore, Prof. R Balasubramanian, Chair, LMAG Hyderabad, Mr. P V Ekande, Chair, LMAG Delhi & Dr. V R Singh, LMAG, Delhi shared their experience & expertise. It was followed by discussions. The event ended with discussions and question-answer sessions amongst the panellist and the attendees. To end the session, discussions were summarised by Dr. H. L. Bajaj.
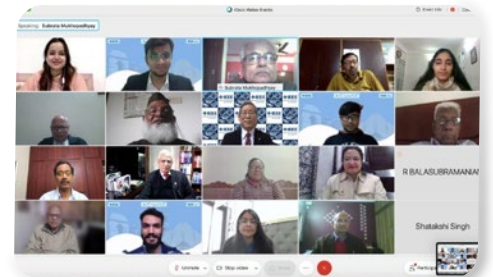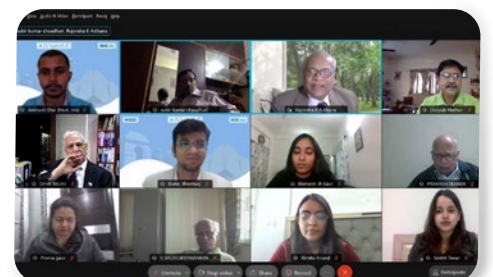
Second Life Member session (LM-2 – Life Member Activities) was held on 26-12-2020

Dr. H. L. Bajaj welcomed the participants & Panellists. Shri Deepak Mathur, Director Elect 2019-20, Region 10, Chief Guest delivered the Keynote address & inaugurated the session. Shri Rajendra K. Asthana, Chair, R10 LM Committee made a presentation on LM Activities. Major features highlighted were:

- Roles of LM Committees at MGA, Region and local (Section) level.
- Explained Life Member Affinity Group (LMAG) Management & procedures.
- LMAGs are established by petition & all Officers of LMAG shall be LMs.
- Parent OU is responsible for AG management & will receive meeting credit for AG activity.
- AGs can be dissolved & also reinstated.
- LMAG shall include a Chair, a Vice-Chair, a Secretary & a treasurer and these together are called LMAG Committee.
- Term of Office shall be 1 or 2 years and shall start on 1st January & end on 31st December.
- Financial support available to LMAGs was explained.
- Details of the LMAG Achievement Award were elaborated.
- Potential LM Activities were detailed.

Presentation was followed by discussions. Before ending the session, presentations & discussions were summarised by Dr. H. L. Bajaj and Mr. Deepak Mathur gave suggestions & Closing Remarks.

Third & last Life Member session (LM-3 – LMAG Meet) was held on 27-12-2020

AISYWL General Chair & Chair Delhi Section, Dr. Prerna Gaur welcomed all panellists & Participants. Dr. S. N. Singh, Chair IEEE India Council, Chief Guest, delivered keynote address. Dr. Suresh Nair, Chair Elect, IEEE India Council gave inaugural address. This opened the floor for the meeting.

The Meeting started with presentation from Mr. Rajendra K. Asthana, Chair, R10 LM Committee. Highlights were:

- MGA approved LMAG logo mailed to all LMAG Chairs may be used. Any one logo could be chosen and to be used consistently.
- 2021 LMAG roasters may be submitted to Regional coordinator & MGA.
- Expectations from LMAGs were elaborated.
- R10 LMAG meet would be organised during the 3rd week of February 2021.
- At year end LMAGs to submit activity & expenses summary & plan for next year.
- LMAGs to contribute articles for inclusion in R10 & LMC newsletters.

This was followed by presentations by LMAG Chairs from Delhi, Hyderabad & Madras and discussions amongst LMAGs & Participants. LMAG Chairs from Bombay, Bangalore & Kerala did not join the meet. Dr. Singh summarised the discussions & gave some valuable suggestions & Dr. Suresh Nair closing remarks. Meeting ended with a vote of thanks from all and LM track events came to an end.

Closing ceremony was organised on 27-12-2020 from 4:45 PM onwards. It included an address by the Host Institution, Chair Delhi Section, and Chair India Council, followed by Awards ceremony & feedback session. It included a video on Congress in a nutshell.

IEEE Hyderabad Section Activities

5th John McCarthy Memorial Lecture by CISGRSS Jt. Chapter

IEEE Joint Chapter of IEEE CIS/GRSS Societies, Hyderabad Section organising the flagship event 5th John McCarthy Memorial Lecture on "TINYML: AI SOLUTION FOR THE COMPUTING EVERYWHERE" by Prof.Manuel Roveri, Politecnicodi Milano,Italy on 17 December 2020. He explained that the "computing everywhere" paradigm (comprising Internet-of-Things and Edge Computing) will pave the way for a pervasive diffusion of Tiny Machine Learning (TinyML) in everyday life. To fully address this challenge TinyML solutions must become deeper, hence encompassing the deep-learning paradigms being the state-of-the-art in many recognition and classification applications. This talk explored the solutions and methodologies to make TinyML deeper and wider. He clarified the role of an effective and efficient processing of encrypted-data through deep-learning-as-a-service in a heterogeneous-hardware ecosystem.

IGEN-2020

(An Initiative to Gather Engineer Network), the Hallmark event of R10 Membership Development and Leadership Training organized by IEEE Hyderabad Section Student Activities Committee most vibrantly and fruitfully under the virtual platform from 18th to 20th September 2020. The main idea of the event is to build future leaders from the younger generation and to improve the memberships. So it is specially focused on helping students to utilise IEEE platform to exhibit their expertise by participating in various competitions and contests in both technical and non technical fields.
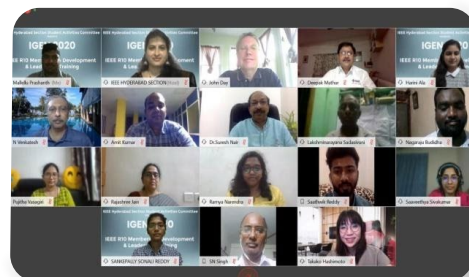
IGEN-2020 had started on August 22, with various competitions for the students. The closing ceremony of IGEN 2020 took place from 18th – 20th September, 2020. The inaugural & closing ceremony of IGEN-2020 was addressed by Mr. Deepak Mathur, IEEE R10 Director Elect., Mr. John Day, Director IEEE Programs and Member Products IEEE MGA, Ms. Takako Hashimoto, Secretary IEEE R10, S. N. Singh, Chair IEEE India Council IEEE India, Dr.Suresh Nair, Chair Elect. India Council, Dr. Rajashree Jain, SAC chair IEEE India Council, Ms. Huynh Thi Thanh Binh SAC Chair IEEE R10, Dr. Saavethya Shivakumar, Regional Student Representative, IEEE R10, Dr. Amit Kumar Chair IEEE Hyderabad Section, Dr. Lakshmi Narayana Vice Chair IEEE Hyderabad Section, Mr. Bala Prasad Peddigari Secretary IEEE Hyderabad Section, Dr. Srinivasa Rao Nookala, Treasurer IEEE Hyderabad Section, Dr. G. Sree Lakshmi Chair SAC IEEE Hyderabad Section and many other Section Excom members. IGEN 2020 impacted over 2500 individuals through 30+ events that were organised under this banner. The ripples of IGEN 2020 were impacted in and beyond the geographical boundaries of IEEE Hyderabad Section. Team IGEN 2020 was fortunate to cater to the thirst and curiosity of many passionate students from across 20 sections, from India and beyond to the countries of Srilanka, Pakistan, Bangladesh, Japan and Singapore.

Section Student Congress (SSC)-2020 (11th December 2020 – 13th December 2020)

The Section Student Congress on 11th – 13th December 2020 with the theme of "Use of Digital Technology during pandemic situation" , an annual flagship event of IEEE Hyderabad Section, which is an amalgamation of technical talks, sessions on soft skills, and career opportunities, where in student members of various Universities/ Colleges under the IEEE Hyderabad Section meet to learn, discuss and network. This year SSC was organized for 3 days with more than 500 delegates from all the Student Branches and 70+ volunteers. The Student Congress aims to congregate student members of the IEEE Student Activities Committee to enable them to discuss the growth and development of IEEE student activities not only members sharing their experiences with student members. SSC '2020 for this season is hosted

virtually on an AI enabled platform. The aim of this congress is to introduce the students to the world of IEEE and to boost student activities in the section by training and motivating the student branch members. During the course of the congress, in addition to the traditional talks catering to the theme, there are IEEE guest lectures, networking activities and leadership exercises. The convention has provided a forum and an opportunity for our future leaders to share their ideas and has given a head start to their growth in technical and professional areas.
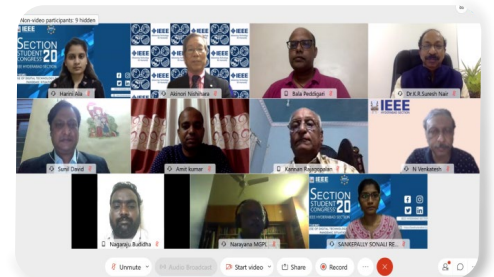
IEEE Walk the Talk 2020

IEEE Walk the Talk 2020 "Student Professional Awareness Conference (SPAC) 2020", its second edition organized by IEEE Women in Engineering Affinity Group under IEEE Vardhaman Student Branch in association with IEEE Hyderabad Section WIE AG, IEEE Hyderabad Section Student Activities Committee, IEEE Hyderabad Section YP AG and IEEE Hyderabad Section CS chapter with the Sister societies in IEEE Vardhaman Student Branch on 22-23 Dec 2020. It was the technical consortium that encouraged engineers to share their ideas and build up a professional network to enhance their skills. The Event was attended by 400+ students from various reputed institutes across Telangana.

IEEE PES/PELS/IAS Joint Chapter-Hyderabad section, India hosted a Webinar by **Prof. Saifur Rahman**, founding director of the Advanced Research Institute at Virginia Tech, USA, past president of the IEEE Power and Energy Society and IEEE President-elect candidate 2020. He enlightened our webinar participants on the topic "Energy Efficiency in Smart Buildings through IoT Sensor Integration".

In this webinar more than 250 participants attended. Another International Expert who gave technical talk in one of our webinars is Dr. Harish S. Krishnamoorthy, IEEE PELS Young Professionals Committee Chair and Assistant Professor in the ECE department of University of Houston, USA. He delivered a lecture on the topic "Solid state transformers and their applications in offshore energy systems". Another International expert who delivered a technical talk in one of our webinars is Prof. Sheldon Williamson, Fellow IEEE and Professor of Ontario University, Canada. He delivered a talk on "Forward-thinking Micro-Mobility Electrification Strategies to Build Pandemic-Resilient Smart Cities".

"Faraday Memorial Distinguished Lecture Program" conducted this year on 31st October 2020 through online mode. This session was delivered by Prof. Kiruba S. Haran, IEEE Fellow, Professor of Electrical and Computer Engineering at the University of Illinois at Urbana-Champaign on the topic "High Power Density Electric Machines for Applications in Renewable Energy Systems & Hybrid Electric Aircrafts''. The occasion was graced by Chair Hyderabad Section Dr. Amit Kumar and Secretary Hyderabad section Mr. Bala Peddigari. This session had a huge participation from Academia, industry and students.

IEEE Kolkata Section Activities

International Virtual School on Application of Machine Learning and IoT in Remote Sensing(CHAPNET 2020) was organized by **IEEE GRSS Chapter Kolkata Section** during **4th-5th December 2020** through virtual Platform Google meet.

Total Number of participants was **90**. In the 2020 Chapnet program, six chapters with two chapters from outside India participated . These Chapters are from the Singapore Section, Washington DC and Northern VA Chapter. From India, Kolkata, Bombay, Delhi and Hyderabad Section participated . There were six speakers, who delivered their lectures during these two days. Dr. Srija Chakraborty from NASA has delivered a talk about "Feature extraction from VIIRS observations for monitoring the earth at night" while DrYee Hui Lee of NTU Singapore talked about "Machine learning for GPS remote sensing application". In addition to that Prof. Ashishghosh (ISI, Kolkata), Dr. Avik Bhattacharya (IIT, Mumbai), Dr. P. K. Champati Roy (ISRO,India) and Dr. Debadatta Swain (IIT, Bhubaneswar) delivered lectures about various aspects of Remote sensing using Machine Learning techniques.

On **10th October, 2020,** IEEE MTT-s SBC, Jadavpur University organized a webinar on "Pedagogical Learning in Electromagnetics using TaraNG". The distinguished speaker for the program was Mr. Swapnil Gaul, Founder, NUMEREGION. **75 participants** attended the webinar.

On **17th October, 2020**, IEEE MTT-s SBC, Jadavpur University organized a webinar on "'Radars for Autonomous Vehicle Application". The distinguished speaker for the program was Mr. T. Jayanandan, Founder/CEO, Tesla Minds, India. **111 participants** attended the webinar.

During **3rd and 4th October**, 2020 a two-day webinar series on "Recent Trends in Antenna Technology for Modern-Day Communications" was organized jointly by the IEEE AP/MTT Kolkata Chapter and the KIIT University .

On **29th November, 2020** a webinar was organized by IEEE APS Student Branch Chapter, Calcutta University in association with IEEE AP/MTT Kolkata Chapter Participants all over from India attended the program. Many renowned personalities were also present.
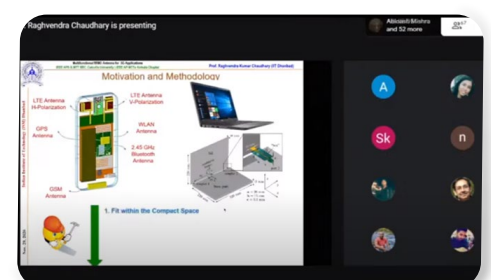
It was started with an inaugural talk by Dr. S. Biswas, Chapter Chair and then followed by Professor D. Guha. The program was organized and hosted by Ms. Debi Dutta, SBC Chair. 90 attendees were present in the program and highly benefited by the talk.

IEEE Indian Conference on Antennas and Propagation (InCAP 2020), 17-20 December 2020, Kolkata. The 3rd edition of IEEE Indian Conference on Antennas and Propagation, InCAP 2020, supported by the IEEE AP/MTT-S Kolkata Chapter was organised in a virtual mode during Dec 17-20, 2020 under the leadership of Prof. Debatosh Guha, University of Calcutta as the General Chair. Previously it was supposed to be held at Hyatt Regency Kolkata, but due to the worldwide pandemic, the event was rescheduled as a virtual one.
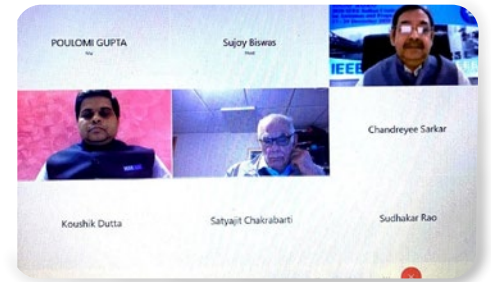
The event was inaugurated by IEEE AP-S president elect Prof. Yahia Antar from RMC Canada. The technical program consisted of a package of tutorials, plenary talks and special sessions by leading experts across the globe from both academia and industry, among whom was present Prof. Makoto Ando, from Tokyo, Japan President URSI and former President of IEEE AP-Society. The section of contributory papers has been withdrawn for this year and the participants could register on a zero payment basis. The closing ceremony was graced by the AP-S President Prof. Mahta Moghaddam, from the University of Southern California. Dr. Sujoy Biswas, Chair-AP-MTTs Kolkata Chapter and a group of volunteers from IEEE AP-MTT Kolkata Chapter conducted the proceedings online. The event had a fabulous gathering of more than 500 delegates over 25+ hours of the online sessions. It has been highly appreciated by eminent scientists and attendees across the globe.

On **14th Oct, 2020**, IEEE COMSOC Student Orientation Program on Smart Grid. Mr. Pallab Ganguly, Chairman, IEEE ComSoc Kolkata Chapter gave a captivating lecture to the students on Smart Grid. The topic was "Challenges of the Existing Security Measures Deployed in the Smart Grid Framework". Mr Ganguly mentioned the challenges as well as the possible solutions and how Smart Grid sits at the intersection of Energy, IT & Telecommunication Technologies. Mr Ganguly talked about the security challenges in smart grid, possible attack variants, operational challenges, architecture of advanced metering techniques, global security standards and path forward. Around 60 Students including student members attended the program.
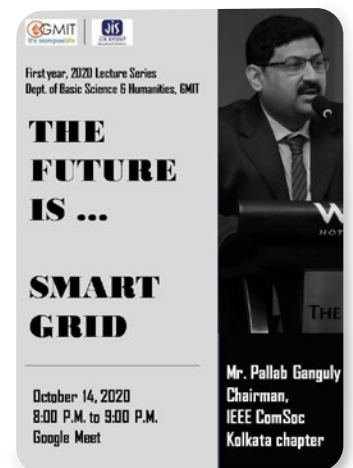
A one-week short term CEP course on "**Futuristic Wireless Communication and IoT-5G and Beyond**" was organized by NIT Rourkela, technical co-sponsored by IEEE ComSoc Kolkata Chapter between **7th to 11th November 2020**. 5G is the next generation wireless communication and network that enables innovation and supports progressive change across all verticals of industries and society at large. The forecast for future 10 years' traffic demand illustrates an increase in 1000 scales and more than 100 billion connections of Internet of Things. This foists a big challenge for future mobile communication technology beyond year 2020. 5G & beyond have the potential to enable fundamentally new applications, industries, and business models and dramatically improve quality of life around the world via unprecedented use of high data-rate instantaneous communications, low latency, and massive connectivity for new applications such as eHealth, intelligent transportation, autonomous vehicles, smart cities, smart homes, Industrial IoT, smart grid, terahertz communication etc. With growing IoT needs, networking should be ubiquitous, energy and spectrum efficient, ensure quality of service (QoS) and adequately secured.

Further, the congregation of 5G and artificial intelligence (AI) is expected to accelerate the adoption of Industry 4.0. Prof ItiSaha Mishra, the immediate past chair of IEEE ComSoc Kolkata Chapter delivered her lecture on day 4 on "Cognitive Radio and 5G communication". Dr. Ashutosh Datta and Prof. Sudip Misra delivered the Distinguished Lecture Tour program (virtual) on behalf of IEEE ComSoc Kolkata Chapter. Prof. Ashutosh Dutta is Fellow IEEE, IEEE Communications Society Distinguished Lecturer, Founding Co-Chair for IEEE 5G Initiative, USA, Johns Hopkins University, USA. Prof. Dutta spoke about wireless evolution upto 5G and then describing the key feature of 5G, highlighting 5G security taxonomy, some use cases and then explaining the current industry standards activities going on, including testbed experimentations. Finally, he spoke about the IEEE initiative taken for Future Networks. There were about 60 participants including IEEE members.

On 8th Nov, 2020

Professor Sudip Misra(Indian Institute of Technology Kharagpur) delivered a VDL on UAV Networks: Architectures, Opportunities, Challenges, and Future. **Prof. Sudip Misra** is the Humboldt Fellow (Germany), INAE Fellow (India), NASI Fellow (India) , Indian Institute of Technology Kharagpur. Prof. Sudip Misra delivered on basics of UAV, various types depending on usages, UAV features elaborating topology, deployment scenarios, adaptive routing, coverage areas and reconfigurability. He then spoke about the challenges related to UAV such as Fast changing topology, Frequent change in relative position, Malfunctioning UAVs, Finding suitable routing algorithm, Weather conditions , Stability , Link failure, power consumption, environmental condition etc.
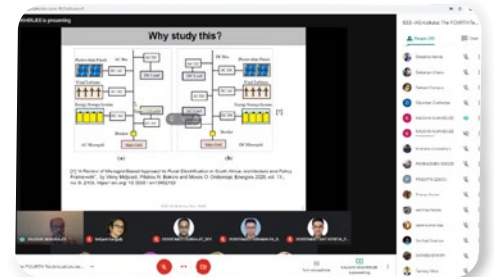
A Technical Lecture Meeting was organized by IAS Chapter Kolkata Section on **3rd December, 2020** through the online platform Google-Meet (meeting link: meet.google.com/hna-jqxt-rot), on the topic "Single-Phase Average Power Measurement Using Instantaneous Power Theory in a Fixed Point Processor." The talk was delivered by Prof. Dipankar Chatterjee, Assistant Professor, Department of Electrical Engineering, Ram Krishna Mahato Government Engineering College, Purulia. The talk dealt with a technique of average power measurement in a single phase AC circuit using instantaneous power theory. The technique employs a simple algorithm using instantaneous power concept in the α-β reference frame. It is applicable for sinusoidal and non-sinusoidal periodic waveforms. The talk was **attended by 5 participants, including two IEEE members.**

A Technical Lecture Meeting was organized by IAS Chapter Kolkata Section on **8th December, 2020** through the online platform Google-Meet (meeting link: meet.google.com/ahx-usmv-fhj), on the topic "Power flow revisited - in power electronic converter based systems." The talk was delivered by Dr. Kaushik Mukherjee, Associate Professor, Department of Electrical Engineering, Indian Institute of Engineering Science and Technology, Shibpur. The talk gave a brief

revisit of power flow concepts of classical electrical engineering. Ultimately, power flow issues for some interesting power electronic converter systems were taken up to show where the age-old classical concepts still prevail and where the concepts have to be re-tuned. The talk was **attended by 24 participants, including three IEEE Members.**
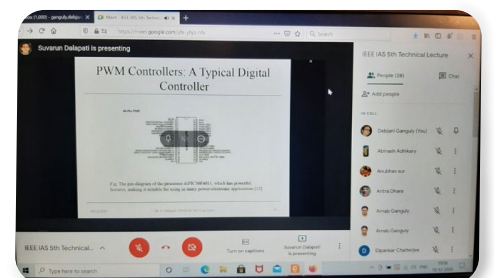
The Fifth Technical Lecture Meeting was organized by IAS Chapter Kolkata Section on **10th December, 2020**, in association with the Departments of Electrical Engineering at Indian Institute of Engineering Science and Technology, Shibpur and Gargi Memorial Institute of Technology, through the online platform Google-Meet

on the topic "Elements of PWM Strategies for DC-DC Converters." The talk was delivered by Dr. Suvarun Dalapati, Assistant Professor, Department of Electrical Engineering, Indian Institute of Engineering Science and Technology, Shibpur. The talk focussed on some such popular PWM techniques, which are generally used for controlling DC-DC Converters. It began with an introduction to the essence of PWM-control and followed it up with the major variants of PWM techniques for DC-DC converters with examples for each such technique. It concluded with a brief discussion on the implementation-aspects of such PWM-controllers using the popular analogue ICs or digital controllers, as offered by some of the IC manufacturers. The talk was **attended by 39 participants, including three IEEE Members.**

IEEE Madras Section Activities

IEEE Madras Section & IEEE R10 Student Activity Committee Sponsored Membership Development and Leadership Training, IEEE LEADERSHIP INSIGHT PROGRAM

IEEE Madras Section in association with IEEE R10 organised an IEEE Leadership Insight Program during 12 – 13, September 2020. Due to Covid-19 pandemic, the program was organized virtually. There were around 50 participants from various institutions across Tamil Nadu who attended this two days leadership program. The program was inaugurated by Dr. N Kumarappan, Chairman, IEEE Madras Section followed by his inaugural address, Dr. N Kumarappan highlighted the importance of leadership in the students for the future.

Day 1 (12.09.2020) consisted of three sessions. In the first session, Mr. Vidya Shankar G, Founder and CEO, Only Success Academy shared his experience on "How to build up a professional career and stories behind success". He motivated students that the failure is one which makes us learn how to become successful and with more failures we are closer to achieving success.

In the second session, Mr. Harish Bharadwaj, CEO, HUM Consulting delivered a talk on "Creative thinking and Decision Making". The session was very interactive and gave the audience a different experience. He gave the participants a deep insight about creative thinking and also explained the major role of decision making in every field and how a wrong decision can affect everyone. He clearly mentioned the steps to be followed before making any decisions.

In the third and last session of day 1, Mr. Charles, ZOHO HR Leader & Public Speaker, delivered a talk on "Smart Work". He explained how problems could be solved using smart work and shared his life experiences. He highlighted the difference between smart work and hard work and why smart work is preferred by companies than hard work.

Day 2 (13.09.2020) consisted of three sessions. In the first session Dr. Kumarappan N, Chairman, IEEE Madras Section delivered a talk on "Awareness For Student And Professional Members". He shared his experience as an IEEE Member and gave a deep insight about roles and opportunities for a IEEE Member. He also spoke about the wide range of awards which IEEE offers and explained how the membership should be used in various ways.

In the second session, Dr. Preethi Bajaj, Vice Chancellor, Galgotias University gave a deep insight on "Roles in IEEE after graduation". She explained how the membership cycle works and the various types of memberships available for the students as well as the professional community. She also mentioned the various roles for an IEEE member even after graduation and also explained about the benefits of each member category.

In the third and last session of day 2, Mr. Madhav Negi, Architect-Office of account CTO, DXC Technology India, delivered a talk on "How to be a better Leader?". He explained the difference between just being a leader and being a better leader. He also gave an insight to the participants on how to develop the leadership skills and how to analyze the problem before acting.

At last, the program ended with the vote of thanks delivered by Dr. N Kumarappan, Chairman, IEEE Madras Section.

IEEE R10 POCO 2020

IEEE Madras Section has organised IEEE R10 sponsored "POCO 2020" on 10th and 11thOctober 2020 through Virtual Mode. This event was conducted for the benefits of the IEEE Members, Volunteers, Academicians and Industrialists who are interested in conducting quality IEEE Conference, by understanding the IEEE Conference Policies. The event consisted of keynote sessions by senior IEEE officials and experienced Conference organisers.

The Inaugural function was conducted on October 10th at 2.00 pm. Dr.D.Devaraj, Secretary, IEEE Madras session welcomed the gathering. Dr. N.Kumarappan, Chair, IEEE Madras section delivered the Presidential Address. The chief guest for the event was Dr. Sri NiwasSingh, Chair, IEEE India Council and Professor, IIT Kanpur. In his inaugural address Dr. Singh stressed the importance of educating the conference organizers in maintaining the quality. Dr. S. Joseph Gladwin, Treasurer, IEEE Madras Section proposed the vote of thanks.

On the first day, there were three sessions. The speaker for the first session was Dr. T. Thyagarajan, Dean, MIT, Anna University and he gave a presentation on "Key Issues and Challenges in Organizing IEEE Conference". Next session was handled by Dr. Amit Kumar, Chair, IEEE Hyderabad Section on "Technical Program overview". The last session of the first day was handled by Dr. N.Kumarappan, Chair, IEEE MAS on "Publications in IEEE Conference and Journals".

On the second day, Mr. PuneetKumar Mishra, Secretary, IEEE India Council gave a presentation on the topic "Financially Co-sponsored Conference and Conference Success Stories". The next session was handled by Dr. D.Devaraj, Secretary,IEEE MAS and he gave a presentation on "Planning an IEEE Conference and Conference Proposal Submission". Finally, an interaction session on "TCS fee payment and Conference Approval" was handled by Dr. S. Joseph Gladwin, Treasurer, IEEE – Madras Section.

Fifty six members have attended the event and it has provided a platform to get trained and to gain knowledge about how to conduct a well organised IEEE Conference. The participants have given good feedback about the event and they mentioned that it was really beneficial.

The Valedictory function was conducted at 4.00 PM. Ms.Sarada Jayakrishnan, Chair, IEEE Kerala Section delivered the valedictory address in the valedictory function. Dr. N.Kumarappan, Chair, IEEE MAS Section delivered a special address. Dr.D.Devaraj, Secretary, IEEE MAS, delivered the vote of thanks and the event concluded at 4.30 pm.

Webinar on "Hybrid AC/DC Microgrid -- Architecture, operation and control"

IEEE Madras Section-SAC and IEEE Student Branch of APEC, Melmaruvathur jointly organized a Webinar on

"Hybrid AC/DC Microgrid-- Architecture, operation and control on 2nd September 2020 at 6.00 pm. The Speaker Dr.N.Kumarappan, Chairman, IEEE Madras Section/Professor, Department of Electrical Engineering Annamalai University, Tamil Nadu, addressed the session by giving details about the concept of Microgrid with innovate solution. The event was light on humor and engrossed the participants to the topic presented. This encouraged the students and they got a clear idea on the topic Microgrid. About 350 students attended the webinar.

Webinar on "Green Energy Solutions with DC Appliances & Smart Micro Grid"

IEEE Madras Section – Student Activities Committee and IEEE SB SJIT jointly organized a Webinar on "Green Energy Solutions with DC Appliances & Smart Micro Grid" on 10th November 2020 from 02.00 pm to 04.00 pm. The speaker of the event was Dr. R. Ramarathnam, Vice-Chair, IEEE Madras Section. Dr. N. Kumarappan, Chair, Students Activities Committee hosted the event and delivered the welcome address. Dr. R. Ramarathnam, Speaker delivered the concept of Smart Microgrid and its specific local goals, such as reliability, carbon emission reduction, diversification of energy sources, and cost reduction, established by the community being served. At the end of the session the speaker clarified the queries of the participants. Around 58 participants attended the webinar from various colleges and industries. Dr. A Ramesh Kumar, IEEE SB Counsellor, St. Joseph's Institute of Technology delivered the vote of thanks.

## ON IEEE MADRAS SECTION STUDENT BRANCH OFFICERS MEET (SBOM)- 2020

The Department of EEE and IEEE SRM Valliammai Student Branch hosted "IEEE Madras Section Student Branch Officers Meet (SBOM) -2020" on 7th November, 2020 through Microsoft Teams [online mode] for all the IEEE members (Excom members, senior professional members, branch counsellors, student members and other participants). Dr.N.Kumarappan (Chair & Chair-SAC, IEEE Madras Section) delivered the welcome speech and Chief Guest Mr. Deepak Sharma (Director-Elect, IEEE Region 10 Asia-pacific) inaugurated the function. He provided his widespread knowledge on the importance of IEEE and its reach, its technical breadth, organizational governance, provided information about IEEE Region 10 and how it combated the crisis of covid-19 and gave more information on the community outreach program. Followed by inauguration, various sessions were conducted by eminent guest speakers. "Volunteering with IEEE'' by Mr. S. Nandan - Chair-SAC, IEEE Kerala Section Mr. He gave a huge perspective on the vast opportunities for IEEE volunteers and how community service and volunteering can build an individual's confidence to step forward and meet new people through IEEE Collabratec and other means. He is also constantly reminded about IEEE's motto-"Advancing technology for Humanity".

IEEE Student Membership Awareness and Benefits by Dr.N. Kumarappan - Chair & Chair-SAC, IEEE Madras Section. He gave us the outlook of IEEE's vision - To advance global prosperity by fostering technological innovation, promoting IEEE communities worldwide, enabling member's careers etc. Also provided valuable information about the importance of IEEE Membership, its benefits, various scholarships and how to apply, IEEE Spectrum and other IEEE journals, branch activities. WordPress Web Designing by Mr. B. Ashvanth-Systems Engineer at TCS, Treasurer, IEEE Madras Young Professionals .Mr. Ashvanth imparted knowledge about how to design one's own student branch portals and IEEE blogs with the help of WordPress, various creative ideas about how to design your own website or blog. Ice Breaking Activity- Virtual Treasure Hunt by Mr. M. I. Abdul Halik - Executive Committee Member, IEEE Madras Young Professionals Mr. M. I. Abdul Halik and team conducted a very interesting quiz competition with IEEE as the background. It helped one test their depths of knowledge in IEEE and was indeed an ice breaking activity.IEEE Student Branch Best Practices were also displayed which showed the calibre and hard work of IEEE Student Branches of SSN College of Engineering, Chennai, Vellore Institute of Technology, Chennai. St. Joseph's Institute of Technology Chennai. The event was concluded in the valedictory session by Dr. K. Elango, IEEE Senior member, Head of the Department, EEE, SRM Valliammai Engineering College by extending vote of thanks.

IEEE DAY CELEBRATION – IEEE MADRAS SECTION

The IEEE Madras Section organized IEEE Day 2020 technical get together hosted by Sri Ramakrishna Engineering College, Coimbatore was celebrated on 18th October 2020 with 125 participants. The program started at 9 a.m. with an invocation song sung by H. Sreeja, II/ECE/SREC. After the invocation session, the cultural events were performed by the Fine Arts Club of Sri Ramakrishna Engineering College. Dr. N. Kumarappan, Chair IEEE Madras Section presented the welcome address for the gathering and shared insights about the activities, contributions and project funding of IEEE. He also congratulated all members for hitting the membership retention development award 2020.
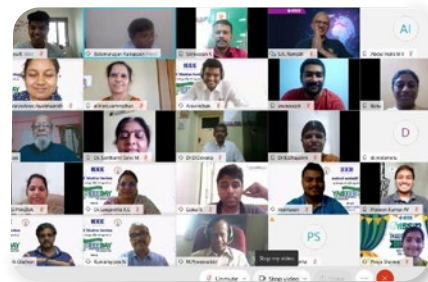
As our chief guest of the day, we had Dr. S K Ramesh, Professor of Electrical and Computer Engineering at California State University, Northridge USA, Director of the AIMS, ABET Board of Delegates. He shared his views about the abundant opportunities provided by IEEE. He addressed the need for humanitarian-based projects and solutions for society's needs by engineers.To know more about IEEE a session by Dr. M. Ponnavaikko, Former Vice-Chancellor, Bharathidasan University, Trichy and SRM University, Chennai, Former Chairperson, IEEE Madras Section, and India council was organized. He shared how IEEE helps one to groom and grow professionally and socially. To provide awareness about the best practices and opportunities in IEEE a session by the guest speaker Dr. N. R. Alamelu, Principal of Sri Ramakrishna Engineering College, Coimbatore, Former Chairperson, IEEE Madras Section was arranged. She emphasized more on collaborative learning, out of box thinking, multidisciplinary working.

The Award ceremony took place around 10.45am, where all the recent awardees were recognized and membership retention awardees were awarded. They were asked to share a few words about their success secret with the participants. We had an online quiz hosted by Aravindhan Anbazhagan, Tech Academician, TEDx speaker, Founder of Edurise Global, Chair IEEE Madras Young Professionals to have a deeper look into the history of IEEE. The quiz was power-packed and around 50+ participants participated. Finally there were seven video presentations by various IEEE Student Branches stating the various events organized and hosted by them. Dr. K. Balamurugan, IEEE SB Counselor, Sri Ramakrishna Engineering College proposed the vote of thanks and thanked everyone who worked hard for this IEEE day.

Webinar on Research and Innovation on Emerging Technologies to Support Sustainable Development

IEEE Madras Section organized a webinar on the topic Research and Innovation on Emerging Technologies to Support Sustainable Development Goals on 08 August 2020 from 6 PM. The speaker was Prof. Celia Shahnaz, chair IEEE Bangladesh Section, Professor, Dept. of EEE, BUET, Dhaka, Bangladesh. Around 100 participants attended the event The main agenda of the event was to outline and inculcate more knowledge and insights regarding research opportunities on emerging technologies. The event began with the welcome address by Dr. N Kumarappan, Chair, IEEE Madras Section. The speaker began the session by elucidating the various opportunities in Research & Innovation in IEEE. She further explained how various emerging technologies can be used to support sustainable development goals . Finally, there was a Q&A forum followed by the session where the speaker addressed various queries of the participants. Dr. M. Venkatesh Kumar, Chair, Professional Activities, IEEE Madras Section delivered the vote of thanks.

IEEE Madras Section Annual General Meet

The Annual General Meet of IEEE Madras Section 2020 happened on December 19, 2020, between 1.30-5.00 PM. The event commenced with a delightful lunch where the productive members of the Madras Section had a good networking in-person after a long time. After the devoted invocation, IEEE Madras Section Chairperson Dr. N. Kumarappan welcomed everyone and flipped through the activities and valuable events that happened in 2020, honored the funds raised by Madras section, Student Branches and appreciated section students, ExCom members, professional members student branches, who worked hard and deserved the awards.

On behalf of IEEE Madras Section Secretary, Treasurer Dr. Joseph Gladwin briefed "Confirmation and Approval of Minutes of Annual General Meet happened on Aug 24, 2019", which was proposed and seconded by Mr. Arun and Ms. Radha. The Treasurer glanced through "Receive and Adopt the Annual Audit Financial statement for the year 2020" which was proposed by Mr R. Dhanasekar and seconded by Mrs. T. Sharmila. Then he presented the details of "Consider and Approve the appointment of Auditors for the year 2020-2021" which was proposed by Mr. Arun and seconded by Mr Karthikeyan.

As a new initiative, IEEE Madras section has granted "Section Rebate Award" for the 43 active Student Branches to strengthen their student's activities in order to increase the student members and professional members and to enhance their Student Branch from COVID-19 pandemic situation. This was facilitated by Chair Dr. N. Kumarappan, Vice-Chair Dr. R. Ramarathnam, Treasurer Dr. Joseph Gladwin.

Followed by, Professional Members of Madras section who have published their IEEE Transactions for Journals were presented and appreciated with "Publication Award" which was facilitated by Dr. N. Kumarappan, Vice-Chair Dr. R. Ramarathnam and Treasurer Dr. Joseph Gladwin. IEEE Madras Section Office staff were recognized for their valuable contribution.

At last, Treasurer Dr. Joseph Gladwin patted everyone, presented the Vote of thanks and the gifts were delivered to the attendees. The meeting ended with the networking tea and snacks.

IEEE Pune Section Activities

Computer Society India Symposium 2020

The Computer Society India Symposium (CSIS) is one of the annual flagship events of the IEEE Computer Society Geographic Activities Committee. PICT IEEE Student Branch Computer Society Chapter hosted CSIS 2020 on 31st October, 2020 and 1st November, 2020. The theme of the symposium "Envision the Future: Traversing through the Technologies of Tomorrow" with different tracks/domains which are suitable to this theme. **Tracks:**

- Gaming Technology
- Drone Technology
- Cloud Computing
- Internet of Things
- Information Processing
- Quantum Computing Blockchain
- Career Entrepreneurship
- Augmented & Virtual Reality

The inauguration was addressed by Forrest Shull (IEEE CS President 2021), Leila De Floriani (IEEE CS President 2020), Deepak Mathur (IEEE R10 Director Elect 2021-2022), Dr. Mohamed Kassim (IEEE CS GAC R10 Coordinator), Prof. Subramanyam (IEEE CS GAC India Area Coordinator), Prof. Hoda (IEEE CS GAC India Student Activities Coordinator), IEEE India, IEEE Pune Section Chair Mr. Girish Khilari, IEEE Pune Section Computer Society Chair, Dr. Rajesh Ingle. And was well attended by speakers & dignitaries across different horizons and various IEEE entities.

It was also supported by IEEE Pune Section Computer Society Pune Chapter, IEEE Pune Section. Keynote speakers include Dr M.V. Pitke, Prof [Retd.] of Tata Institute of Fundamental Research, Mumbai, Dr Ashutosh Dutta, Sr. Scientist & 5G Chief Strategist at Johns Hopkins University.

IEEE WIE Symposium 2020

Women in Engineering Affinity Group of IEEE Pune Section in association with IEEE Madras Section, IEEE Computer Society, We Power and Women in Engineering Affinity Groups of 5 student branches organized the national level IEEE WIE E-Symposium 2020 on November 20 and 21, 2020 in virtual mode with special focus on returning mothers.

The main motto of the symposium was the Returning Mothers and to bring back women scientists and engineers to rejoin the workforce. The symposium provided an opportunity to explore the creative side and find a way to start their own venture. The two days of the symposium also provided a path for learning new technologies and to develop the required skills.

The symposium was a highly interactive platform that aimed to build a collaborative community of women in technology to Innovate, Empower, Inspire and Engage. The symposium was witnessed by about 35 National and International speakers and around 200 delegates.

In the inauguration ceremony, Dr. Rajashree Jain, IEEE WiE AG, IEEE Pune Section made the opening remarks. The Symposium had privilege of Guest of Honours Ms. Seema Gupta, Director of Operations, POWERGRID, Dr. Takako Hashimoto, Vice President, Chiba University of Commerce, Japan, Ms. Emi Yano, Chair, Region 10 WIE Committee, Ms. Jenifer Castillo, Upcoming IEEE WiE AG Chair 2021and other dignitaries. Ms. Meera Thorat, Chair, IEEE WiE AG, Pune briefed about IEEE WIE. Dr.RamalathaMarimuthu, Former Chair, IEEE WiE AG, Global briefed about WePower. The occasion was also graced by Directors of all institutes that jointly organized the WIE symposium.

EKAM EVENTS

EKAM means 'one-ness' and the objective of our program is to emphasise the one-ness among different disciplines. That is the reason we wish to bring different types of topics under one umbrella of EKAM series – like Science, Arts, management, Finance , medicine etc -- all of them are related to each other. And an integrated look at these topics can enhance one's creativity.

IEEE Pune Section, IEEE Education Society, Pune Section, Society for Data Science in association with Raja Dinkar Kelkar Museum organized the second event of EKAM series "History and Science of Beauty Care" on October 3, 2020 at 7:30 pm. The speaker for this webinar was Ms Leena Khandekar, Founder and Director, Lee's Beauty Centre and Spa. She has over 20 years of National and International experience in this field. The session was very informative and captivating!

The third webinar was scheduled on 21st November 2020 at 6:30 pm.This year Diwali coincided with children's day and so children's day was virtually celebrated with the means of this wonderful session. The main objective behind organizing this wonderful event was to showcase the vivid talents of children all over the country. The Fourth event in the EKAM series was "Mind Mapping over the Years" on December 5, 2020 at 6:30 pm. The speakers for this webinar were Dr. Rupali Choudhary and Dr.Dnyanraj Choudhary, Founders of Samyak Rehabilitation Centre. Psychology is a part of mental science and that is how the program is in this important scientific discipline.

IEEE PuneCon 2020

IEEE PuneCon is a flagship conference of IEEE Pune Section. This time IEEE Pune Section hosted PuneCon 2020 in partnership with Vishwakarma Institute of Technology (VIT, Pune) from 16 December to 18 December, 2020. The theme of PuneCon 2020 was "Information Processing" which resonates well with IEEE's mission of "Advancing Technology for Humanity". IEEE PuneCon 2020 got an excellent response from various accomplished and learned authors.

The conference was inaugurated in the presence of general chairs Dr. Rajesh Ingle, Dr. Shripad Bhatlawande, Mr. Girish Khilari, Chair, IEEE Pune Section, Mr. Bharat Agarwal, Managing Trustee, VIT, Dr. Rajesh Jalnekar, Director, VIT Pune, Dr. Toshio Fukuda, IEEE President, Dr. S. N. Singh, Chair, IEEE India Council, Dr. Suresh Nair, Chair, IEEE-Elect IEEE India Council , Mr. Deepak Mathur, Director Elect, IEEE Region 10 and chief guest Dr. Anand Deshpande, Chairman, Persistent systems.

Dr. Takako Hoshimoto, IEEE Region 10 Secretary, Dr. Jayanta Mukhopadhyay, Professor, IIT Kharagpur, Dr. Sudip Misra, Professor, IIT Kharagpur, Dr. Subhasis Chaudhuri, Director, Mr. Mahesh Kshirsagar, CTO, TCS were the speakers during the conference.

Dr. Anil Sahasrabudhe graced as chief guest during the valedictory function. This conference has been well attended by various dignitaries and attendees.

## Eu-Reka 2020 – An initiative of IEEE to raise Nation's S&T literacy level

As the name 'Eu-Reka' signifies, the program aims to raise the 'National Education-Reka', using the students in our colleges as 'Ambassadors of Education'. Teams of college students visit urban and rural schools, talk to students at VIII/ IX/ X classes about latest advances in S&T, and provide them a flavour of its benefits in their day-to-day life. The objective is to motivate the school children to take up higher studies in STEM, and also boost the confidence, self-esteem and aspirational level of the students, especially girl students in rural areas to continue studies beyond high school level.
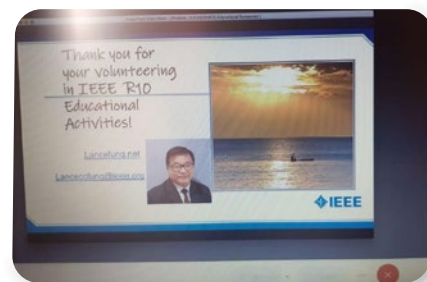
Eu-Reka 2020 was launched on an All-India basis as part of IEEE's national mission towards Educational Advancement in association with IEEE India Council and IEEE's Pune Section and its Education Society to spread the program over different parts of the country. The initiative also received overwhelming funding support from Leap & Scale Educational foundation, Pune, IEEE Hyderabad section and IEEE EAB of Region 10. This year the initiative was further encouraged by the support of AICTE in promoting the event

When the program was launched in April-May this year, It was decided to have the complete program in virtual mode including the interactive sessions between the college and school children. In spite of the prevailing pandemic conditions, interest shown by our youth was truly overwhelming. Over 450 students volunteered, a few from far-off states like WB, J&K, Meghalaya, and Sikkim. Many participants were from small / second tier towns/ cities like Udupi, Chickballapur, Kozhikode, Nagercoil, Kurukshetra, Bareilly, Aligarh, etc.

The program was spread over about 4 months (Sept - Dec 2020), during which the participants were addressed by Dr. Lance Fung, Chair, R-10 Educational Advisory Board on IEEE educational Resources. There was also a Question Answer session with the organising committee members.
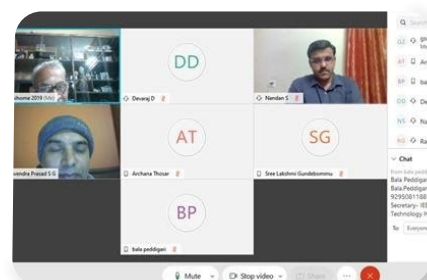
Finally, about 175 students completed the event, in which they interacted with 191 high schools in 13 states. It included 115 schools (75%) in rural areas . The total outreach was 11,348 students, rural students forming more than 55%. Out of the total students, 5,543 were girl students, forming 48.9%. It was heartening to note that out of the 5543 girl students, 3196 came from rural schools, forming 57.3%.

Two major take-aways emerge from the program :

- The enormous interest to participate in such programs shown at our schools -- in particular, the enthusiasm shown by our rural school authorities and also the rural girl students
- The potential in our youth /college students who have shown "the spirit, energy and enthusiasm to lend their hand" in such nationally productive programs
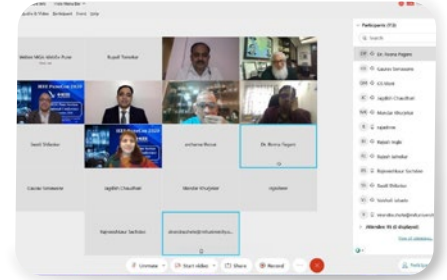
The success of the program was possible only by the efforts of a dedicated group both at local and at National level.

Eu-Reka must be viewed as IEEE's contribution towards 'advancement of education' in our country and continue this effort for building a strong S&T foundation at school level. The program was presented to Dr. Kasturirangan, Principal architect of NEP last year on August,31,2019 and to Dr Anil Sahasrabudhe, chairman, AICTE this year on December 18,2020. Both of them were appreciative of the initiative.

Activity of such intensity and greater cause like education can be considered for scaling up in future as part National Educational Policy, by taking it up with the Ministry of Education and IEEE partner OUs.

Eureka Prize Distribution in the presence of Dr. Anil Sahasrabuddhe, chairman of All India Council for Technical Education (AICTE) held on 18 Dec 2020 in a virtual mode.

Achievements

$\diamond$ **IEEE**

Recognizes and certifies

Pune Institute of Computer Technology

with the Darrel Chong Student Activity Award 2020 - Gold for the activity

"Credenz (National Technical Fest)"

13th November 2020

FOUNDED NEW YORK 1884
THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.

Toshio Fukuda
IEEE President 2020

Message from the ICNL Team

Rutwik Jain
Lead - ECIM
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ECIM and ICNL was an opportunity for me and my team to ensure that awareness about IEEE's activities across India are spread far and wide through the electronic medium. I sincerely hope that our contributions to the newsletter prove to be trailblazing, particularly in terms of accessibility, readability and aesthetic. I owe immense gratitude to Vamsi Krishna, Vice Chair of ECIM, who believed in us and actively guided us throughout the year.

Sandeep Dogiparthi
WebMaster
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2020 Being the year of uncertainty it is the same for IEEE - ICNL and ECIM, as this might be phase change to NEWSLETTERS, which are published in detail now it's really crisp and short with great design. Glad to be a part of the team and give my best contribution to the team.

Rajeshwari Reddy
Sub-Editor
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The past couple of months have been one of the most enriching experiences with IEEE and specifically with the ICNL-ECIM team. The entire journey spanned over Q-1 to Q-4 has helped me to grow as a volunteer and connect with the diverse audience of various IEEE Sections. I look forward to the prospective editions with an optimistic outlook to further the vision of IEEE in 2021.

Siddhant Banyal
Sub-Editor
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My experience while working with this editorial team of ICNL and ECIM has been an extremely heartening one. I have learned so much with this extremely talented and motivated bunch during the past year. Together this team has been able to achieve a myriad of milestones and has set the tone for the forthcoming editions.

Vaibhav Kothi
Designer
vaibhavkothi@ieee.org

It has been an amazing learning experience for me, being a part of the ICNL and ECIM team. Overcoming the challenges that the year 2020 caused, I enjoyed working with such talented and enthusiastic people. I am delighted to be a part of this wonderful team and to be able to contribute through my work. I feel privileged to have received this opportunity and I would like to thank all the team members and the executive committee for providing their constant support.

Yashaswi Vennamaneni
Designer
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My journey with ICNL - ECIM has always been a fruitful learning experience. This year the ICNL - ECIM Team took up the challenging task of transforming the newsletter entirely which included both the content and the visual aesthetic of the newsletter. I feel privileged to have made a significant contribution in improving the overall visual aesthetic of newsletter through my designs. I also feel humbled to have worked and collaborated with high ranking members of the IEEE who have at every step guided me and helped me accomplish more as a member of this team.

About Cover
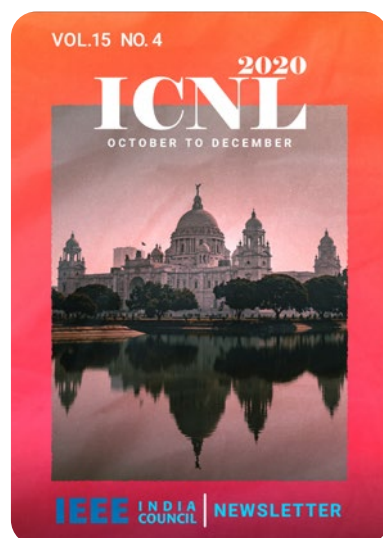
Built in the city of Joy-Kolkata, the Victoria Memorial is one of the magnificent monuments representing the resplendent and majestic architecture built during the British Indian Empire as it stands today as a veritable icon in the city of Kolkata. Located on 1 Queen's Way, the VMH was envisaged by Lord Curzon, the Viceroy of British India, as a memorial to the deceased Queen Victoria. This hall was erected on the Calcutta maidan to serve primarily as a monument to the Queen and secondarily as a national gallery and Valhalla of the Indian Empire.

This memorial with the museum would act as a "standing record of our wonderful history". Lord Curzon's writing brings forth that it was a part of his imperial duty to put into execution to set up a "Great Imperial memorial worthy of Queen Victoria and worthy of India.

King George V, the then Prince of Wales, laid the foundation stone on January 4, 1906, and it was formally opened to the public in 1921. This majestic photo was taken by Mr Anikent Dutta, a final year graduate student from SRM Institute of Science and Technology. Mr Aniket is currently majoring in Mechanical engineering & aims to pursue his PG from abroad. He further dreams to be a professional photographer capturing the beautiful architectures that are built around the world and let the people see through this lens the history which they aren't aware of. The ICNL team wishes the best to Mr Aniket for his big dreams & thanks for helping us with the cover picture.

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