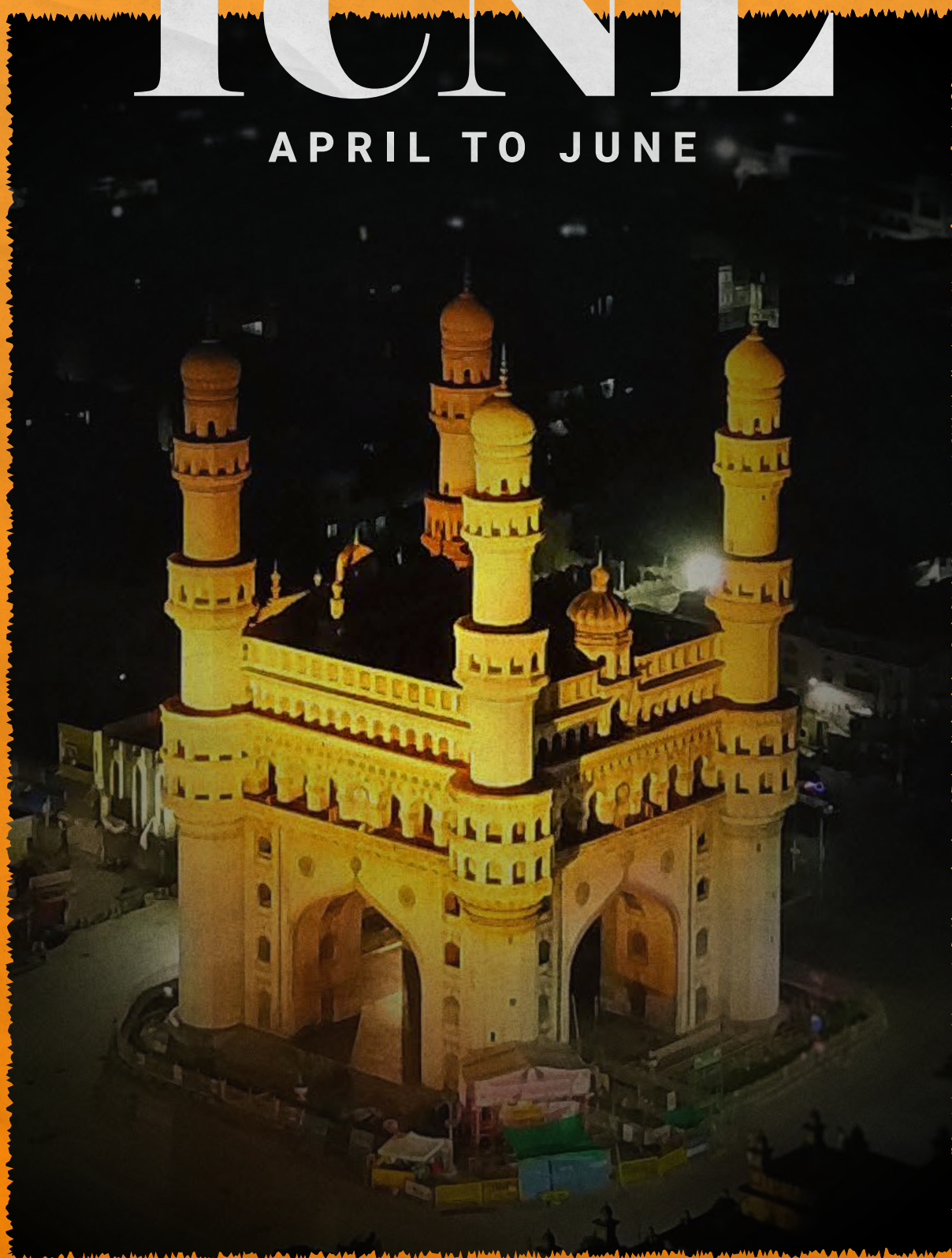


**VOL.15 NO. 2**

**2020**

# ICNL

**APRIL TO JUNE**



**IEEE**

**INDIA  
COUNCIL**

**NEWSLETTER**

# Message from the Chairman



**Prof. Sri Niwas Singh**

IEEE IC Chairman 2020

Dear valued IEEE members, ,

IEEE India Council (IC) wishes for you and your family to be safe during this COVID19 pandemic. I hope you're keeping safe and staying informed amidst the global crisis. I'm elated to send this message to you through the Vol 15 Edition II of the IEEE India Council Newsletter. This newsletter is inclusive of the information of council, sections & affinity groups within the council & the activities held amidst the global crisis.

Amidst the global crisis spanning over the second quarter of 2020, IEEE India Council Excom meeting was held twice on 19<sup>th</sup> April & 21<sup>st</sup> June 2020

in Virtual Mode using WebEx Platform. With the given pandemic, all the IC events till July will be hosted completely virtual. India Council has organised several webinars / panel discussions to keep the members engaged & their morale high in spirits. Few of such webinars/panels discussions witnessed starstudded speakers namely; Kris Gopalakrishnan [Former Executive Vice-Chairman, Infosys], Prof. Navakanta Bhat [Winner - Infosys Prize 2018], Prof Manoj Tiwari [Director - NITIE], Mr Ramanan Ramanathan [Mission Director - Atal Innovation Mission], Mr. Saurabh Jain [Vice President - PayTm], Prof. Saifur Rahman [Virginia Tech], Ms. Miri Rodriguez [Global Head - Internships, Microsoft] shared their perspectives & expertise with the members.

The newly initiated IEEE India Council Subsection Conference [INDSICON] will be held virtually by IEEE Vizag Section during July 25-26, 2020. The flagship conference of IEEE India Council viz., INDICON 2020 will be held in NSUT, New Delhi in collaboration with IEEE Delhi Section between December 11-13<sup>th</sup>, 2020. I hereby appeal to all IEEE Members to make this INDICON another success story & help us re-write the history of its successful journeys previously. Due to the rising crisis of Novel CoronaVirus outbreak, IEEE All India Student / Young Professional / Women in Engineering Congress which is scheduled to be held in Chitkara University, Chandigarh is shifted to December, 2020.

IC is playing a key role in IEEE - ABET Webinars on Accreditation & Quality of Engineering Education in South Asia for the benefit of members & educational institutions. In order to increase the awareness among SAC/MDC/WiE/YP volunteers of sections, multiple awareness programs were organised by inviting the who's who of IEEE & provided necessary information to execute their volunteering services effectively. IC proposal to organise a POCO [Panel of Conference Organisers] has been approved by the IEEE Region 10 & same will be organised soon.

I congratulate the efforts taken by Mr. Vamsi Krishna J, Vice Chair - ECIM & Editor - ICNL & his team for their tremendous efforts to bring this edition to you and connecting all of you together virtually. I would also like to put on record & thank the section leaders who have extended their kind cooperation in providing the inputs & information related to various & initiatives taken within their respective sections to publish in this edition. With that said, I'm sure with the help of all the members & volunteers in India, we will be able to make one of the best councils within the entities of IEEE.

Prof. Sri Niwas Singh, FIEEE, FIET, FNAE, FIETE, FIE(I)

Chairman - IEEE India Council 2020

Vice-Chancellor, Madan Mohan Malaviya University of Technology Gorakhpur

[snsingh@iitk.ac.in](mailto:snsingh@iitk.ac.in)



## Message from Sub-Editors



**Siddhant Banyal**  
Sub-Editor



**Rajeshwari Reddy**  
Sub-Editor

Dear Readers & Members,

We are honored in taking this opportunity to bring you the Vol. 15 No. 2 of the IEEE India Council Newsletter. In this rendition of ICNL, we've covered the developments within & beyond the section in an aim to connect to our members digitally as we are already physically distant amidst this pandemic. COVID'19 has definitely pushed us to reach out to the extreme boundaries in making possibilities out of opportunities.

In this edition of ICNL we shall map you to the metamorphosis of activities held / initiatives taken and drop you a beam of hope on the possibilities that were achieved during these trying times. We at ECIM & ICNL team continue to share the relevant updates from the IEEE India Council scheduled this year with due respect to our prospective authors and attendees. This edition also includes the insights from section leaders who upheld their leadership roles and continue to motivate their members by increasing the potentiality of their members' values. We are elated to thank all the section chairs, India Council - Vice Chairs for the timely help and coordination of submission of reports from their respective entities in due course.

Amidst these trying times, IEEE has paved a path for an exciting virtual world that connects every member within its territory & outside its territory on a common purpose to network, collaborate & innovate for a better future. This edition also gives you a glance about IEEE - at a Glance with major initiatives coming from IEEE & its entities around the world & key updates that uphold the spirit of volunteering across our Council.

Note: ECIM & ICNL is strictly working on the repetitive requests from members about article submissions to India Council Newsletter. The portal for submissions is currently still in the deployment stage and shall soon come into reality after making necessary clearances. We intend to make sure to duly keep our members informed once it is ready & this edition will continue to publish articles coming from sections & respective entities within IEEE India Council.

We continue to make the ICNL & India Council Web-portals more transparent & interactive to our members. We shall also strive hard to contribute our best efforts in delivering the most important information at regular intervals to our members through ICNL.

Thank You for reading the Vol. 15 No. 2 of ICNL. Should there be suggestions/feedback; please make yourself convenient to send us an email to: [ic-ecim@ieee.org](mailto:ic-ecim@ieee.org)

# Lockdown Diaries - Insights from our Section Leaders



**Er. Puneet K Mishra, Bangalore Section**

*"Leveraging the power of technology is the hallmark of the city of Bangalore and that has translated the Bangalore section of IEEE into its new Avatar in delivery of its service to its members in virtual mode, over the internet. The lockdown restrictions due to ongoing COVID-19 pandemic could not affect the vibrant nature of the section and we are able to organize more than 70 webinars in the last 3 months. In fact, this has given the section the opportunity to scale new heights, break the geographical boundaries to*

*reach out to members beyond Karnataka. As a small gesture of our societal responsibility the section has also contributed to the PM CARES funds in a humble way."*



**Prof. Prerna Gaur, Delhi Section**

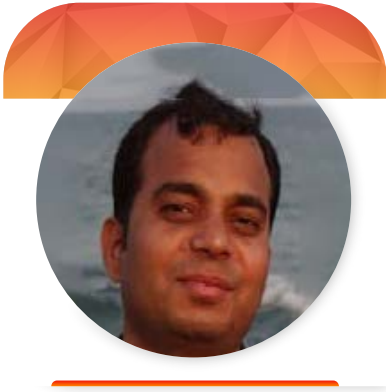
*"In this wake of the pandemic, when the world was in the shackles of the COVID-19 virus, IEEE Delhi Section bought a ray of hope and opened a new door of opportunities within this gloomy situation. Introduced a series of webinars and a well-designed Student-YP-WiE SubSection Congress in collaboration with IEEE Chandigarh Subsection, an immense value addition through ice-breaking sessions, online coding competitions. IEEE Delhi Section also pioneered with Chat Pad with speakers from*

*multifarious backgrounds ameliorating us with immense knowledge and taking away our quarantine blues. Despite the physical caveats, IEEE Delhi Section left no stone unturned for students & young professionals to network and has only increased their outreach in conveying about the vision of IEEE."*



**Mr. Sanjay Kar Chowdhury, Kolkata Section**

*"COVID-19, a global epidemic that affected more than 7.9 million and counting, has turned out to be a deadly virus that is a threat to the very existence of the human race. My sector falls under emergency services, so I have to be in the office during the lockdown period. We maintained the several protocols in our office in accordance with various guidelines to ensure the safety and well being of our employees."*



### **Dr. Amit Kumar, Hyderabad Section**

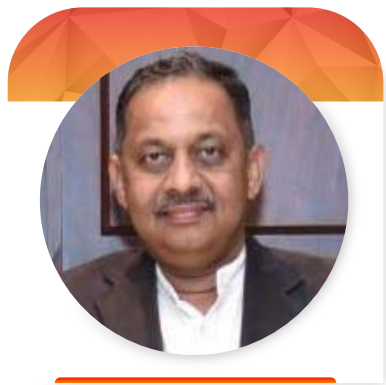
*"We at Hyderabad Section hope the readers and their families are in good health and safe during these testing times. IEEE Hyderabad Section laid the foundation to many pivotal web based initiatives related to next generation education, YP career enhancement, higher education, computational intelligence and COVID resources which are generating a great response from both members and non-members. I am very happy to quote that our proposal for formation of Vizag Bay Section is approved and the related*

*transition has been completed by IEEE MGA. We would like to congratulate the enthusiastic team of the newly formed Section of Vizag bay and wish the new section a great success ahead. I urge everyone to take very good care of yourself, your families and friends by staying at home and following government regulations. Let's make the world more resilient together."*



### **Dr. N Kumarappanm, Madras Section**

*"This situation is very new to our generation, first there was a lot of anxiety and thought we have very little to do but to our surprise we were able to organize many webinars, FDPS, etc., there were a lot more participants in these virtual programs than regular ones and we were also able to organize these easily and cost-effectively. In a nutshell, I feel we were able to reach more people than usual."*



### **Mr. Girish Khilari, Pune Section**

*"It is indeed a great honor and a privilege to take on the responsibility as the Chairperson of the IEEE Pune Section for 2020. As you are aware, early this year the World Health Organization officially declared the novel coronavirus COVID-19 a pandemic. Governments around the world are now issuing restrictions on travel, gatherings, and meetings in an effort to limit conducting in-person activities and instead maximized the use of our online*

*and virtual meetings. Following the advice of local authorities, most IEEE conferences and meetings have already been postponed or replaced with virtual meetings."*

## Status updates on IC Conferences

In pursuance to the article featured in the Q-1 edition of our newsletter, we are pleased to inform you with the developments from the 17<sup>th</sup> IEEE India Council Conference - INDICON 2020. This year's rendition will be organized collaboratively with IEEE India Council and Delhi Section at Netaji Subhas University of Technology, New Delhi. The conference is scheduled for 11<sup>th</sup>-13<sup>th</sup> December 2020 with the theme of "Technology Intervention to Build Future-Ready Society". Since the release of the Call for Papers, the conference has introduced several special tracks including the track titled "WIE Contributions in Next Generation Computing" with the aim to promote diversity in the STEM field and promote innovation in emerging fields of technology.



The conference has also bagged technical co-sponsorship from the IEEE Industrial Application Society, IEEE Power Electronics and IEEE Control Systems Society and aims to further collaborations in the prospective future. The conference aims to send quality papers presented in the conference for consideration that may be eligible for review by the IEEE-Industry Applications Society for possible publication in IEEE Transactions on Industry Applications or IEEE Industry Applications Magazine. The deadline for full paper submission for INDICON has been extended to 31<sup>st</sup> July 2020.

The prestigious MV Chauhan Student paper contest is also being held along the lines of INDICON 2020. The contest tries to bring together all IEEE Student members of India to discuss the latest advancements and future directions in the areas of interest to IEEE. The organizing committee invites full paper submissions from UG and PG students in all the areas of interest including but not limited to Engineering, Technology, and Science as per the scope of tracks for consideration of this award.



On behalf of the organizing committee, we would like to invite all IEEE members and readers of this ICNL to participate in INDICON 2020. Various proposals for Tutorials, Workshops, and Focused Sessions (on topics like corresponding to the theme and tracks) are also solicited by the organizing committee. Further details of the conference can be found on <https://www.indicon2020.in>

On behalf of the organizers of the IEEE India Council Subsection's conference (INDISCON 2020), we are pleased to bring to you a follow up in reference to our previous article in Q-1 edition of ICNL. The conference is scheduled for 25<sup>th</sup> - 26<sup>th</sup> July 2020 at the Gayatri Vidya Parishad College of Engineering (A), Madhurawada, Visakhapatnam, India with the theme of Smart and Sustainable Systems – Decade Ahead. The closing date for regular registration is 15<sup>th</sup> July 2020 with early bird closed on 15<sup>th</sup> June 2020. The program details and author information can be found on <http://www.indiscon2020.org/glance.html>



## 2020 IEEE INDIA COUNCIL INTERNATIONAL SUBSECTIONS' CONFERENCE

25<sup>th</sup>-26<sup>th</sup> July 2020

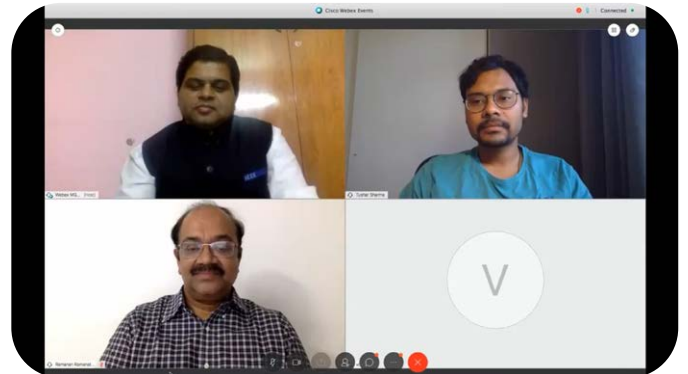
Gayatri Vidya Parishad College of Engineering(Autonomous), Visakhapatnam, India  
Register Now

The organizers are pleased to inform all the authors and presenters that the conference will be organized as per the schedule with an option to present from a remote location for those who are not able to travel due to COVID-19. The modalities for the same are being worked out and details for the same will be released shortly on their conference website. All the accepted and presented papers will be sent to IEEEExplore for consideration of publication. The organizers have extended the invitation for their esteemed conference to all members of the India council and ICNL readers.

## IEEE India Council Events

### Webinar on Innovation in India & Way Beyond

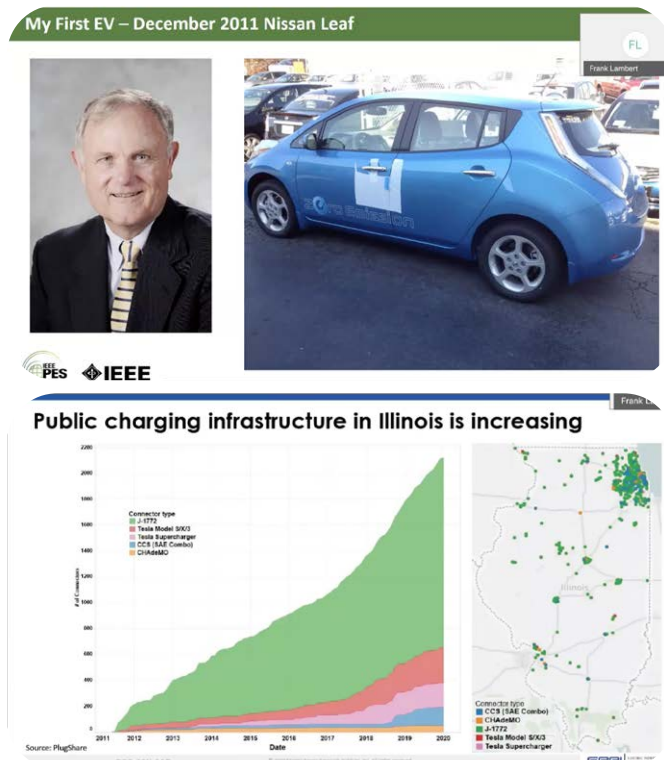
On 29<sup>th</sup> April 2020, the IEEE India council hosted the first of its Webinar amidst the global crisis. The focus of this particular webinar is to enrich the community with the knowledge and wisdom of highly regarded dignitaries which helps them to enhance their skills and innovate out of their ideas within. The webinar was themed at “Innovation in India and way beyond” with star studded delegates like Mr. Ramanan Ramanathan, Mission Director - Atal Innovation Mission, a flagship national Innovation initiative of the Prime Minister and the Government of India under the NITI Aayog (National Institution for Transforming India); Prof Sri Niwas Singh, Chairman - IEEE India Council & Vice-Chancellor, MMMUT - Gorakhpur, Er. Puneet Kumar Mishra, Head - Satellite Antenna Characterization, Test & Design Section - ISRO ably moderated by Dr. Tushar Sharma, R&D RF Design Engineer at NXP Semiconductors. Dr Tushar opened the discussion by explaining the current crisis within India and abroad & awaited for the panelists to make their remarks & opinions on the discussion. Mr. Ramanan has made the remarks on the present crisis and how one can overcome it through innovation. He explicitly declared that we have to create and promote a path to the ecosystem of innovation and entrepreneurship across the length and breadth of the country. He added the use of energy, a youthful workforce, and an educated labour is going to bring great dividends to the country and also added we live in a country with million challenges but equally provided opportunities for everyone of us to leverage and convert them into great solutions that addresses human needs. Prof S. N. Singh, Chair - IEEE India Council in response to the given views added that: Micro/Medium jobs & opportunities have to be increased and create an environment for the job seekers through the job givers. In such situations the addressable audience do not really rely on certain aspects. He also added about the availability of different scholarships /opportunities available in the field of innovation established by the Department of Science & Technology - Government of India in concurrence with the views laid by Mr. Ramanan. Er. Puneet Kumar Mishra, another star speaker on the panel has neatly explained the difference between invention through innovation & laid a path of view for the audience to understand how the members of IEEE have to make use of the existing resources available for them. The session was ably curated by Dr. Tushar who explicitly put down the toughest questions to the amazing panel & made sure the audience had their own slice of cake by attending this webinar. A massive webinar with a humongous participation of 1881 registrations & online visits of 3000+ audience attending it virtually.



## Webinar on Impact of Electrical Vehicles in post COVID world

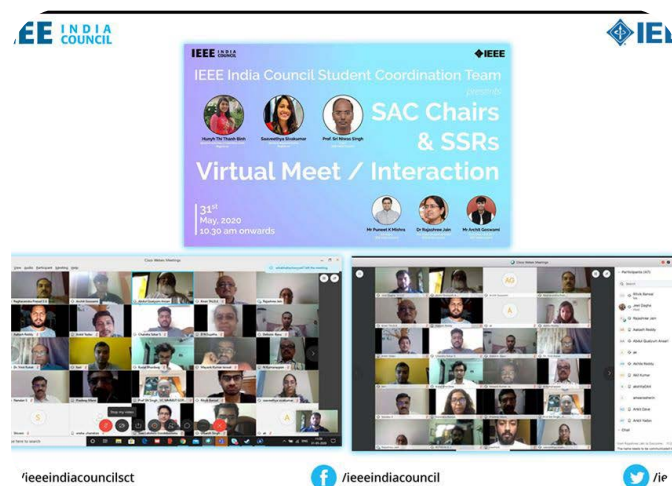
On 7<sup>th</sup> May 2020, ICNL & ECIM team of IEEE India Council hosted it's 2<sup>nd</sup> webinar of the Quarantine WebSeries in concurrence with IEEE PES Day 2020 Celebrations. The webinar received a magnanimous registration of 1200+ across the active regions of council & region 10 with merely over 400+ attending it virtually through the webex platform. This webinar featured a panel discussion between Er. Frank Lambert, President - IEEE Power & Energy Society, Prof. Sri Niwas Singh, Chair - IEEE India Council & Vice Chancellor - MMMUT - Gorakhpur ably moderated by Er. Puneet Kumar Mishra, Secretary - IEEE India Council & Chair - IEEE Bangalore Section.

The webinar started with opening remarks made by Prof. Singh & he announced how the panel would progress through the due course of the webinar which was themed at "Impact of Electrical Vehicles in Post COVID World". Prof Singh added the challenges in the given domain and set a context to the audience on how it would look like in Indian Market. Er. Puneet introduced Er. Frank Lambert who has agreed to join the panel as Guest Speaker on the framed theme of discussion. Er. Lambert touched up the myriad of issues associated with changing circumstances in the field of electrical vehicles & technological phase shifts in the post COVID world. Er. Frank also addressed the development & growth of Electrical Vehicles (EVs), the trajectories of EV industry globally, utility perspective, charging infrastructures, policy incentives & various different prospects. The discussion concluded with addressing some of the finest questions put forward by our audience & humbly answered by the panelists. ICNL & ECIM team appreciates the IEEE PES Day team for their active involvement & support right from scheduling this webinar to making it a reality.



## Virtual Meet & Interaction: SAC & SSRs - IEEE India Council

On 31<sup>st</sup> May 2020, an interactive session was organised with Student Activities Chair & Section Student Representatives of section within IEEE India Council. This session was addressed by Ms. Huynh Thi Thanh Binh - IEEE Region 10 Student Activities Committee Chair, Ms. Saavethya Sivakumar - IEEE Region 10 Regional Student Representative, Prof Sri Niwas Singh, Chair - IEEE India Council, Er Puneet Kumar Mishra, Secretary - IEEE India Council, Dr Rajashree Jain, Vice Chair, Student Activities Committee - IEEE India Council & Er Archit Kansal, Vice Chair - Young Professionals & Chair - Student Coordination Team of IEEE India Council. This evangelized the progress and issues of the IEEE Sections in India. A lot of new initiatives and activities were deliberated to overcome the obstacles and cater to the smoother function of activities at all levels.





## Webinar on Building a Social Enterprise Product

IEEE India Council Women in Engineering Affinity Group in collaboration with IEEE Kharagpur Section hosted a Webinar on “Building a Social Enterprise Product: Technology Used & My Journey” humbly addressed by Ms. Gnana Lakshmi, Senior Leadership Fellow at Women Who Code & Engineering Head - TrustIn. The webinar laid a foundation for the budding entrepreneurs across the council & showed a path on how huge the hurdles intertwined will be. This webinar on 21<sup>st</sup> May was attended by over 100+ participants from all across India.



## Virtual Meet & Interaction: MDCs - IEEE India Council

On 14<sup>th</sup> June, 2020, an interactive session was organised with the Membership Development Chair of IEEE Sections within India Council. This meeting was spearheaded by Dr Vinit Kotak, Vice Chair, Membership Development - IEEE India Council with the presence of Prof Sri Niwas Singh, Chair - IEEE India Council, Er Puneet Kumar Mishra, Secretary & Dr Rajashree Jain, Vice Chair, SAC - IEEE India Council. This meeting laid the foundation for uplifting the membership status & increase in retention of members within the sections of the council. This meeting has addressed the most important questions w.r.t that of membership status & various initiatives taken up by the membership development committee chair's of the respective section at the grassroots level.



## WiE Chairs & Coordinators Virtual Meet: IEEE India Council

On 20<sup>th</sup> May 2020, IEEE India Council Student Coordination Team hosted an interactive session with the Women in Engineering[WiE] Affinity Group of IEEE India Council. This meeting was attended by Ms Emi Yano, WiE Affinity Group Chair - IEEE Region 10, Dr Rachana Garg, Committee Member - IEEE Region 10, Prof Sri Niwas Singh, Chair - IEEE India Council, Er Puneet Kumar Mishra, Secretary, Dr Y V S Lakshmi, Vice Chair -Women in Engineering Committee, IEEE India Council & Er Archit Kansal, Vice Chair - Young Professionals & Chair - Student Coordination Team of IEEE India Council. This interaction provided an insight into the regional & global operations of WiE & a detailed discussion was held on creation of a coordinated strategy inline with the vision of WiE & how each section's affinity group grew further with queries being addressed in the end.



# IEEE Bangalore Section Activities

The section is supporting the college students by decimating education through its flagship webinar series 'Gurukul' spanning over 40 sessions in 20 days between 25<sup>th</sup> May to 15<sup>th</sup> July. It covered courses in the standard Engineering Curriculum. Professors, from engineering colleges all over Karnataka, volunteered to deliver the modules and 3000+ students attend these sessions. This was open for non-members also and created a lot of impact among them. To create awareness about the advantages of IEEE and IEEE Membership for students to excel in their career and profession virtual students' conclave was organized on 9th May 2020. About 100 non-IEEE students joined for the conclave in virtual mode. Special care was given to the final year students during all these programs. Keeping their career in mind a dedicated webinar series was arranged to highlight the non-conventional opportunities in the jobs. The section also took care of the professional members in this time of lockdown. It extended special support to the chapters and affinity groups to organize technical talks series and workshops. Eight sections/AG took this opportunity. As can be seen from the flyer, well-known speakers delivered these talks and these were well attended with the participation between 100 to 300.



Bangalore Section organized two Industry Speakers' series; the first one during the week of May 4<sup>th</sup>, and another one starting on 18 May. The first series was the International Speaker Series, where the Section had invited sessions by eminent global experts. The unique nature of the webinar was evident from the title of the talk and the expertise of the speakers provided in the flyer of the event. The sessions were attended by 100 to 200 attendees each day. The second part of the series was organized with speakers from the Indian industry and academia with international repute. This included Gnanapriya C, Dr Sumeet Suseelan, Prof. Manoj Tiwari, Mr.Sishir Kolli, Dr Sunil Kumar Vuppala, Prof. Navkant Bhat, Prof. Ashutosh Sharma, Mr Sankhdeep Mitra. Each day 150 to 900 attendees participated in talks under the series.



The Section in another unique way has identified the District Coordinators (DCs) for 22 districts of Karnataka. The Section has a plan to identify DCs for all the remaining 8 districts too. This comes out to be very useful in reaching out and addressing the various necessities even during the lockdown. On 6th May, a meeting of these coordinators was held where they detailed their plans and efforts in outreaching to coordinate with the institutions in their district and explained their strategies in creating awareness about IEEE and starting new student branches.



The day to day activities of the Section also remain unaffected, the membership drive, meetings, branch counsellor's meet, meeting with the chapters and affinity groups are also happening regularly as in pre-COVID timing. The section has adapted to the new normal of the day. All these activities are taking place WebEx mode and more importantly it has significantly increased reach of the section even to the furthest part with internet connectivity. Bangalore Section has indeed converted this crisis into an opportunity in real sense. This report ends with a staggering statistic (April to 10<sup>th</sup> June) that more than 25000 participants registered and attended the WebEx sessions of the Bangalore section for about 12450+ minutes.

# IEEE Bombay Section Activities

A Short Term Training Program on “Shifting Teaching-Learning Paradigms through Innovative Pedagogy”, technically sponsored by IEEE Bombay Section, was organized from 12<sup>th</sup> to 16<sup>th</sup> February 2020 by the Department of Electrical Engineering, VNIT, Nagpur, as a part of Diamond Jubilee Celebration of the Institute. It was a 5-day program with resource persons from IIT Bombay and Vidyalankar Institute of Technology, Mumbai.

The first day of STTP started with inaugural by the chief guest, Dr. Prasanna Chaprkar, Professor, IIT Bombay; Dr. Pramod M. Padole, Director, VNIT, Nagpur and Dr. Madhuri A. Chaudhari, Head, Electrical Engineering Dept. The speaker Prof. Prasanna Chaporkar, from IIT Bombay shared his thoughts on how the teaching-learning scenario has changed over the years and how various strategies will be useful to keep students' interests intact for a subject. He also discussed some points on how to structure research publications. The talk was appreciated by the participants.



The speaker for the second day, Prof. Zakir Rather, IIT Bombay, delivered a technical talk on ‘Grid Integration of Renewable Energy’. His talk involved about Wind Energy, Solar Energy, and their integration with the existing grid. He also discussed various grid code regulations to be kept in mind while integrating renewable energy sources.



Prof. Beeytna Ballal delivered a lecture on Bloom’s Taxonomy, Revised Bloom’s Taxonomy action verbs, the hierarchical structure of Bloom’s Taxonomy, how it can be incorporated in preparing lesson plans, question papers, quizzes, assignments, etc. Also, guidelines for preparing a technical crossword were discussed, and a crossword activity was carried out for the participants in the morning session. Prof. Ashish Shekhar discussed the Flip Classroom concept and various pros and cons of the same by giving various examples and real-time scenarios.



The speakers for day 4 were Prof. Vibha Wali and Prof. Atul Oak from VIT, Mumbai. Prof. Vibha Wali shared her experience in education technology and the use of ICT tools. She discussed various Class Assessment Techniques (CAT) tools for assessing course-related knowledge and skills. An activity on how to use different CAT tools was carried out during the morning session, which received a good response from the participants. In the afternoon session, Prof. Atul Oak delivered a lecture on Problem Based Learning.



Prof. Sandeep Wali, VIT, Mumbai, delivered a talk on how to create your own lecture videos using different online tools. He discussed various categories of videos that can be used as modern-day teaching tools such as classroom teaching videos, glass board videos, and videos including PowerPoint presentations followed by Feedback Session and Valedictory Function.





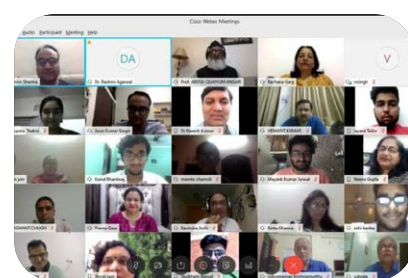
# IEEE Delhi Section Activities

COVID – 19 did put a pause in our lives but it could not prevent IEEE from following its motto of “Advancing Technology for Humanity”. From 17<sup>th</sup> to 21<sup>st</sup> April 2020, IEEE IGDTUW in association with IEEE Delhi Section and WIE AG Delhi Section organized their primary event, WIEmpower 2.0. The event sponsored by Microsoft Student Partners, Balsamiq Creative Tim, and ETI labs focussed on the vision to provide a platform for aspiring Women in technology to inspire them to follow their academic interests. The event started with a Case Study Competition conducted on the Dare2Compete Platform with over 500 registrations followed by a Code - O - Fiesta an online coding competition. Charu Verma, the seniors Principal Scientist Head talked extensively about Transforming Governance for Inclusive Society along with Jhanak Johri, a prodigious Alumni of IGDTUW enlightened upon the benefits of IEEE membership in MS after engineering. Then, Ms. Deepshikha, a TEDx speaker, shared her views on Positive Attitude followed by Saurabh Uboweja who shared his wonderful views on "Why will women be leading technology in the future?" The Webinars and competition enlightened the participants about various interesting and crucial topics, keeping both career and general awareness in mind.



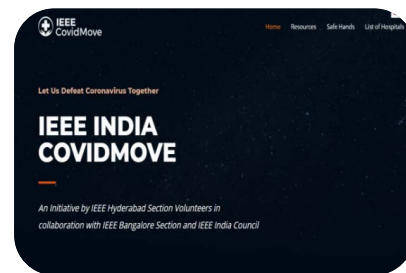
On the evening of Saturday, June 6<sup>th</sup>, IEEE Delhi Section in partnership with IEEE India Council Student Coordination Team hosted a webinar on "Build for India: A step towards Atmanirbhar Bharat" by Mr. Saurabh Jain, Paytm- Vice President, a Chartered Accountant turned software developer and an author. He is the inventor of the Personal Persistent Messaging System & Neuro Symbolic Network Generation and Execution System. Being the head of the “Paytm – Build in India” he guided several young minds about the field of entrepreneurship and building a company in India itself and how the day to day strategy works in a startup. The Webinar was a success with shattering records of over 3000+ participants joining in to listen to the respected Mr. Saurabh Jain.

Amid the Lockdown of 2020 on the 7<sup>th</sup> and 8<sup>th</sup> of June, IEEE Chandigarh Sub-Section along with the IEEE Delhi Section organized the first-ever Chandigarh Sub Section Congress. The event started with an Ice-Breaking event in the form of an online interactive quiz on Kahoot and won cash prizes for the same. The Networking session, moderated by Prof A. Q. Ansari, SAC Chair, IEEE Delhi Section, included the introductions and the perceptions of the office-bearers of the IEEE Delhi Section and the SAC committee on Chandigarh Subsection Congress'20. The event had webinars about Digital Future of an ideal graduate engineer by Prof K. Subramanian, Ex-Chairman, IEEE Delhi Section, Branch Functioning by Prof Perna Gaur, Chairperson, IEEE Delhi Section and TensorFlow in Machine Learning by Mr. Jason Mayes, Senior Developer Advocate for TensorFlow.js at Google. The second day commenced with the case presentation round of WiECritique: A Policy Case Study, judged by Prof Er. Sugandha Sharma, Chandigarh University, and Mr. Saurabh Bhadwar, Senior Software Engineer at LinkedIn. Then, the event was graced by webinars by Mr. Amit Kumar Pandey, President at Hanson Robotics Ltd on Robotics and AI and by Ms. Tanya Kathpal, Founder at EatMyNews on WiE: Personal Branding. The event was concluded by Prof Yajvender Pal Verma, Member, IEEE Chandigarh SubSection, and initiation of a 15hr Coding Event named Code A Bit-Lit.



# IEEE Hyderabad Section Activities

Volunteers of IEEE Hyderabad section in collaboration with IEEE India Council Humanitarian Activity Committee are fighting against the vulnerable COVID-19 virus through an initiative called IEEE COVID MOVE ([www.ieeecovidmove.in](http://www.ieeecovidmove.in)) – A dedicated whereabouts of deadly COVID in India, what to do, where to go, what to rely on and how not to panic! The website and its social campaign have reached more than 10000 people making an impact on hundreds of people every day by spreading COVID related useful resources in India, information on the do's and don'ts, curbing fake information, and saving lives. Team of dedicated volunteers turned soldiers are working day and night to keep this mission on until all fight and win this battle together.



With the rapid outbreak of COVID-19 throughout the world, IEEE India Council took up an initiative to organize the "IEEE India COVID Move - Online Hackathon Challenge" in collaboration with IEEE Hyderabad Section and IEEE Bangalore Section by providing a platform for the young minds to ameliorate their technical dexterity. The Four - day Hackathon challenge focused on the advancement of innovative solutions of unmet needs and problems due to the sudden outbreak of COVID-19 pandemic. The event was preceded by a webinar by Dr. D. R Srinivas, Senior Consultant Doctor, Bengaluru India, and Dr. G. K Goswami, a Delhi based IPS officer. The winning teams of the Hackathon are as follows: First Prize: COVID 11MHz and Innovate Plus; Second Prize: SSN COVID and Be Aware; Third Prize: Hand gloves preparation and Med Warriors.



IEEE India Council has taken an initiative to organize the "IEEE India COVID Move - Online Hackathon Challenge: Edition-2" in collaboration with IEEE Hyderabad Section, IEEE Pune Section, IEEE Uttar Pradesh Section and IEEE Bangalore Section to provide a platform for the young-minds to uplift their technical proficiency. The students from all over India have come out with new innovations using different technologies. The event was preceded by a webinar by Mr. Mahesh Muralidhar Bhagwat – IPS, Commissioner of Police, Rachakonda, Hyderabad, and Dr. Ajit Kumar Saxena – Professor and Head Department of Pathology Lab Medicine, AIIMS, Patna. The winning teams of the Hackathon are as follows: First Prize: MedTex; Second Prize: Innovizens; Third Prize: Eva; Fourth Prize: Dark Knights



Apart from the above events, the IEEE Hyderabad section has organized 50+ webinars in the past two months on current trends to bridge the gap between industries and academia. IEEE ComSoc, Hyderabad section had conducted the annual Alexander Graham Bell Memorial lecture on "Estimation and concentration of missing mass" on 2<sup>nd</sup> May 2020. It was tenth in the series and Prof. Andrew Thangaraj, Indian Institute of Madras India was the speaker of the session. Over 300 participants were benefitted. IEEE CIS/GRSS Jt. Chapter, Hyderabad section organized an expert talk on "Successful scientific publishing: from the project to the advertising" on 13<sup>th</sup> April 2020 by Prof. Alejandro C. Ferry, Universidade Federal de Alagoas, Brazil. It was an eye-opener for upcoming researchers in the field of Geoscience and Remote Sensing. Over 350 participants attended. Amit Kumar, section chair Hyderabad section and N. Venkatesh, immediate past chair motivated the volunteers to organize more such quality webinars for IEEE professionals.

## IEEE Kerala Section Activities

With the pandemic around and restrictions on physical meetings, teams at IEEE Kerala Section rose to the occasion and turned virtual. And this gave an opportunity for the boundaries of the section to move beyond geographic boundaries; activities had participation and new learnings from across the globe. Student branches also rose to the situation; 1200+ events have been reported as on May 30<sup>th</sup>, 2020. Membership Development & Membership elevation committee activities are keeping close track on membership counts and are working towards achieving targets.



The Strategic Initiative on Academia engagement of IEEE Kerala Section, led by Sameer S M, Past Chair IEEE KS, has the mandate of engaging with Kerala's Academia in the engineering domain and exploring how the IEEE platform can support them in their strategic and technical requirements over the next two-three years to bring out passionate industry-ready Engineers from Kerala. The idea is to have this as a multidimensional initiative including interventions in the curriculum, delivery methods, Industry associations, student mentorship, etc leveraging the multidisciplinary expertise with us. Action items have been initiated with a webinar series on "Accreditation and Quality of Engineering Education- from an ABET Perspective" by Dr. S. K. Ramesh, Professor of Electrical and Computer Engineering - California State University, Northridge, USA; Director of the Engineering Area Delegation of ABET. The event was attended by over 270 participants across India and a few across borders; videos shared on the section YouTube channel for further outreach. It is expected that more engineering colleges would level up by way of accreditations, thereby helping the student community.

With the onset of Industry 4.0, a committee on Industry-focused activities in the section was formed to enhance the relationship of the section with Kerala's industry, whether large, SME or start-up; and whether Traditional or Hi-tech. The initiative has been led by Mr. Satish Babu, Past Chair, IEEE Kerala Section. The primary focus is to create an action plan over a 2-3 year horizon through which IEEE Kerala Section can reach out to industry and help in upskilling them, and providing expert help through channels of IEEE and Society Chapters. It is planned to achieve these objectives through a partnership with other Industry associations in reaching out as well as running programs for the industry. The first of the webinar series was inaugurated By C Balagopal, IAS turned entrepreneur who brought a Medical Device manufacturing to Kerala. His session on the post COVID Opportunities for small and medium scale industries was attended by more than 90 participants from Kerala, As an offshoot to this session, a collaboration model is being worked upon with Maker Village, a unique incubator.

One of our members sprang to action along with a group of 46 volunteers from various areas including Doctors to face the challenge of supporting the health care system with an initiative for low-cost ventilator support design. In association with the Indian Medical Association Kerala Chapter, a low-cost ventilator was designed and fabricated at the fablab and handed over to the authorities for further testing. This initiative later was termed BreathOfHope. The section's five past chairs are members of the project's strategy group. There are around 10 devices and support apparatus which are in the pipeline including a non-invasive ventilator, an oxygenation device, and a portable intubation chamber. A pool of engineers for the second line of support to biomedical engineers across the state is standing by to sprout to action upon requirement. They are being trained on the basics of the various Biomedical equipment used especially for COVID support.



# IEEE Kolkata Section Activities

Kolkata section has taken an opportunity to engage its members in constant learning and knowledge gaining activities. The following activities have been initiated in order to bridge the gap between Industry and college. Keynote Speech in EE Track was delivered by Prof. Chandan Chakraborty, IIT Kharagpur, also an IEEE Fellow, on “Renewable Energy Integration: Challenges and Opportunities”. Keynote Speech in WIE Special Session was delivered by Dr. Suparna Dhar, Ex-Industry personnel, and Assoc. Prof. NSHM, Knowledge Campus, Kolkata, on “Employing Data Analytics to Monitor Organization's Social Media Activity”.

In the Industry Session, industry personnel from Ericsson: Mr. Indrajit Sanyal, Check Point Software Technologies Ltd.: Mr. Sanjeeb Sengupta, Palo Alto Networks: Mr. Pankaj Chawla, NTT-Cisco: Mr. Rohit Gupta, delivered lectures related to 5G Technology, Network Security, DNS Traffic, Cyber Security. It was really a pleasant experience to have Mr. Sanjay Das, Joint Secretary, IT, and Electronics Govt. of WB as the Industry Session Chair, who beautifully moderated the session.

A Student Panel Discussion on a very relevant topic on “Is India ready for NexGen Technologies?” was conducted where students from Engineering Colleges of Kolkata like Jadavpur University, NSEC, IEM, and IIT KGP have joined the panel and Mr. Sanket Sarkar, CEO of a Startup company TeamCognito was the moderator.

On 6<sup>th</sup> April, 2020 at 7 pm IEEE Kolkata Section in collaboration with NSEC and CII Organized a webinar titled “Design Thinking in Entrepreneurship”. It was delivered by Mr. Kaushik Bhattacharya, Business Growth, Sales and Strategy leader, and was attended by 252 students and 54 faculties.



In April, 2020 at 7 pm IEEE Kolkata Section in collaboration with NSEC and CMA organized a webinar titled Innovation and Branding. It was delivered by Mr. TVS Shenoy Chief-New materials division, TATA STEEL, and was attended by 352 students and 84 faculties.



On 23<sup>rd</sup> April 2020 at 7 pm IEEE Kolkata Section in collaboration with NSEC and CII organized a webinar titled "IPR and Innovation". It was delivered by Prof.Dr.Manas Kumar Sanyal, (HOD-HRM)IEST, Kolkata and was attended by 586 students and 75 faculties.



On 25<sup>th</sup> April 2020 at 7 pm IEEE Kolkata Section in collaboration with NSEC and CII organized a webinar titled “ Build your professional branding through the digital platform” by Leena Das Ghosh, Director- HR & Admin at Hita Technology PVT LTD; Founder of OpenWindow.



On 29<sup>th</sup> April,2020 at 7 pm IEEE Kolkata Section in collaboration with NSEC and CII organized a webinar titled "Building a successful startup! Need investors to grow your business.



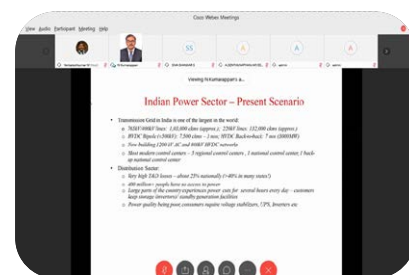
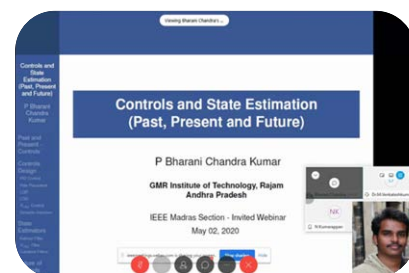
On 13<sup>th</sup> May,2020 at 7 pm IEEE Kolkata Section in collaboration with NSEC and CII organized a webinar titled Disruption is the new normal-Ways to cope post lockdown. It was delivered by Col.Prabir Sengupta and was attended by 474 students and 62 faculties.



# IEEE Madras Section Activities

IEEE Madras Section organized a Webinar on Controls and State Estimation: Past, Present, and Future on May 2<sup>nd</sup>, 2020, from 4.00 pm to 5.30 pm. The Speaker of the event was Dr P Bharani Chandra Kumar, Professor, and Head, Dept of EEE, GMR Institute of Technology, Rajam, Andhra Pradesh. Dr Venkatesh Kumar, Chair of Professional Activities committee, hosted the event and delivered the welcome address. The Speaker elaborated on Controls and State Estimation Past, Present, and Future.

IEEE Madras Section organized a Webinar on Smart Grid Technology in India on May 6<sup>th</sup> 2020 from 5.00 pm to 6.00 pm. The Speaker of the webinar was Dr N. Kumarappan, Chairman, IEEE Madras Section. Dr Venkatesh Kumar, Chair of Professional Activities committee, hosted the event. The Speaker elaborated on the Smart grid Technology in India. Highlights of his presentation include Smart Grid, Indian Power Sector- Present Scenario, Transmission grid in India, Distribution sector, Future Projection - Projected Electricity demand & Renewable energy growth trend, Smart grid vision and Roadmap for India - Customers, utilities, Government & Regulators, Funding Agencies available, Etc., One hundred five participants attended the event and got benefited out of it.



IEEE Madras Section organized a webinar on Awareness of IEEE Awards on 11<sup>th</sup> May 2020 from 10.30 am to 11.30 am. The Speaker of the event was Dr D. Nirmal, Chair, IEEE Awards -IEEE Madras Section. The event started with his presentation by Introducing the participants with Importance of Awards & recognitions & how one can get it. He elaborated about various awards available in IEEE. He started with The IEEE Medal of Honor the highest IEEE award, followed by IEEE MGA Awards, Region level awards, Council Awards & Section level awards. He insisted all participants to volunteer & apply for all eligible awards. Around 100 participants participated & benefitted.

IEEE Madras Section announced the call for student project funding on August 29<sup>th</sup>, 2019 and received 47 projects. The projects were shortlisted based on the criteria 19 and published in the IEEE Madras Section website on November 12<sup>th</sup>, 2019. To ensure and evaluate the quality of the submitted projects and to motivate students, a pre-final selection demo was conducted through Skype on March 6<sup>th</sup>, 2020. All the 19 teams have participated, and selected project teams were informed. The final selection was held on May 7<sup>th</sup> & 8<sup>th</sup>, 2020 through Webex, as suggested by IEEE EXECOM. Four projects were found suitable for certification and cash award for the first three places (Rs.10000, 5000 and 3000).

Every year the IEEE Madras Section organizes Faculty Development Programs to update the knowledge of the faculty members working in Engineering colleges and Universities on the latest technological developments. In line with that this year the Madras Section has organized an FDP on the title of "Electric Vehicle Technology", from May 6<sup>th</sup> to 9<sup>th</sup>, 2020. One hundred seventy participants, including many senior-level faculty members, HoDs, faculty members from premier institutions, and IEEE Student Branch Counsellors, have attended this FDP. The FDP has helped the participants to gain the necessary knowledge on Electric vehicles and also the research opportunities existing in this field. The participants have expressed their satisfaction with the quality of the lectures delivered and appreciated the organizers for conducting the FDP on this important topic.



# IEEE Pune Section Activities

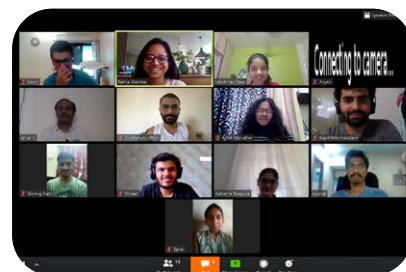
IEEE Pune Section hosted a webinar on 'Standardizing Blockchains' in association with IEEE Standards Association on 27<sup>th</sup> April. Srikanth Chandrashekharan, Senior Director, Standards and Technology, IEEE India was the speaker for this virtual workshop.

The spirit of an engineer is always hungry for learning and is kindled with the competition. While many activities were put on halt due to the lockdown, IEEE Pune Section student council under the guidance of Dr. Neha Sharma hosted an AI/ML online competition in collaboration with TATA Consultancy Services. The competition was conducted in two stages.

- The First round on 30<sup>th</sup> April 2020 from 10:00 am to 1:00 pm, where the participants had to predict future values on one of the two databases they were provided with
- The Second round occurred on 8<sup>th</sup> May 2020 and held as a virtual presentation round. The students presented their predictions and results over a Zoom meeting.
- The presentation was judged by Dr Neha Sharma and Dr. Amar Buchade, Secretary - IEEE Pune Section.

A total of 28 teams consisting of 51 members participated in the competition, of which, 3 teams have been announced as winners. And the Awards are as follows

- Winner: AboliMarathe
- Runner Up: ShivrajPatil
- 2<sup>nd</sup> Runner UpAryan Kolhapure.



The winners offered the opportunity to work on a real-life project under the mentorship of Dr. Neha Sharma.

A webinar on "Design Thinking in the age of COVID-19" was organized on 6<sup>th</sup> May 2020 in association with the IEEE Pune Section SPS chapter and IEEE services, tools, and courses. Dr. Ashok Korwar, Founder - School of Design Computing have been invited as a speaker.

IEEE Pune Section has organized a webinar on the topic "Research and Innovations to Support Sustainable Development Goals on 13<sup>th</sup> June 2020 from 6.30 pm-7.30 pm by Dr Celia Shahnaz Professor, Dept of EEE BUET, Dhaka, Bangladesh, IEEE Region 10 Director-Elect 2021-22 and preceded by another topic " Ecosystems for innovations to farmer community" by Mr. Girish Khilari, CTO & Director, Elliot System; chair, IEEE Pune Section.



IEEE Pune Section has organized a webinar on the topic "Role of Smart Grid - IoT An COVID-19 Pandemic Situation and Solutions" on 29<sup>th</sup> April 2020 from 11.00 am-12.00 noon by Mr. Manish Singh Business, Head, IOT Smart Grid, Tata Consultancy Services, Pune and Dr. Surekha Deshmukh, EED-PVG's COET Pune; Chair, IEEE PES IAS Charter IEEE Pune Section



An IEEE Humanitarian Technology conference on 'Artificial Intelligence In Healthcare Sector' was held at the AISSMS Institute of Information Technology from 20 to 22<sup>nd</sup> March. What distinguishes AI technology from traditional technologies in health care is the ability to gain information, process and give a well-defined to the end-user. The three-day conference was co-sponsored by IEEE Pune Section.



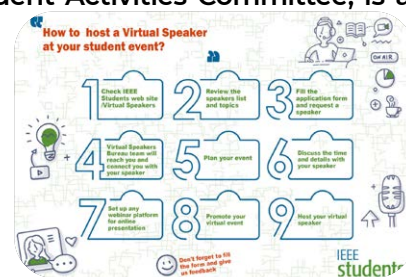
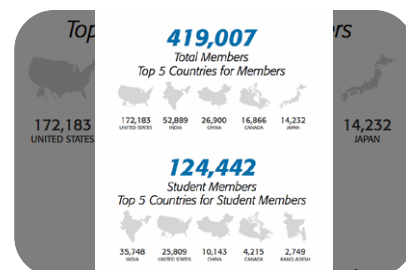
Under the ambit of this article, we aim to bring to you various developments across the global spectrum of IEEE and connect members and Student Branches with the upcoming initiatives that will empower them further. This section includes the relevant activities and news from May to June 2020 (Volume 15 Edition II). IEEE India Council is pleased to make the announcement of the **IEEE Vizag Bay Section** as the Newest & 12th Section of the council, with the receipt of the official announcement from the IEEE Member Geographic Activities Board. Dr. Lakshminarayana S has been recorded as the Interim-Chair & section is currently in the transition stage with the ongoing pandemic & aims to form a body, society by-laws as the restrictions ease in the region. IEEE India Council sends its best wishes for the journey ahead & hopes to collectively achieve greater milestones with their inception as IEEE.

IEEE India Council proudly announces its memberships statistics for the year 2019. India has the **highest number of IEEE Student Members** at 35,748 and is the second-highest country with 52,889 IEEE Members as per the 2019 IEEE Annual Report. We would like to thank all the volunteers and members for their continued support and contribution to enable us to achieve this feat.

Every year, **IEEE day** is celebrated on the first Tuesday of the month of October, this year won't be any different either! This year the whole IEEE community will be celebrating the day on **6<sup>th</sup> October 2020**. We hope our members don't let the spirit of volunteerism die down amidst this pandemic and make this year's rendition a success and carry out the legacy.

IEEE **New Initiatives Committee** (NIC) invites members to share their vision inform of a particular program, product, or service offering that they think can make a significant impact on IEEE members, the public, or a technical community under their flagship initiative. To learn more, visit: [ieee.org/initiatives](http://ieee.org/initiatives)

The IEEE Student Activities Committee started a new initiative in 2020 by establishing a **Virtual Speakers Bureau**. This will use IEEE's network to provide more opportunities for students and Branches. Under this, student branches and virtual speakers will be paired by the VSB committee. The Virtual Speakers Program, overseen by the IEEE MGA Student Activities Committee, is a great opportunity to share a very rewarding experience and aligns with IEEE's mission to nurture the profession. They can impart wisdom, information and guidance to our next generation of engineers and IEEE leaders. In order to participate as a Virtual Speaker, go to <https://students.ieee.org/virtual-speakers/> and fill the "Form to Become a Virtual Speaker". In order to request for Virtual Speakers, one needs to go to <https://students.ieee.org/search-virtual-speakers/> to explore Speakers and Topics, then click on the submit the "Form to Request a Virtual Speaker". ICNL team highly encourages its members to participate in this initiative to foster the future of engineering and facilitate learning.



IEEE R10 Industry Relations Committee (IRC) **Student and Early Researcher Conference Fund (SERCf)** is willing to offer financial assistance to IEEE Student members and other members of age below 40 years to enrich their exposure and experience. We hope the readers can leverage this and make most out of this opportunity. More details can be found here: <https://bit.ly/ieeer10sercf>



IEEE R-10 is organising **#IEEER10EAVirtual - Social Media Challenge**. Members of R-10 are invited to participate and make the most out of this opportunity. More details can be found here: <https://bit.ly/ieeer10smc>

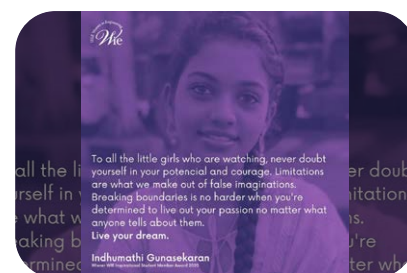


**IEEE Kerala Section**, with a bunch of volunteers sharing the sheer joy of volunteering, with guidance and mentoring with the wisdom of experience and expertise and student/young volunteers as foot soldiers have taken the section to the epitome yet again after 2015, with the **IEEE MGA Outstanding Large Section Award 2020**. The timeline of the Kerala Section being recognized goes as:



- Region 10 Outstanding large section award: 2004, 2009, 2014, 2019
- MGA Outstanding large section award: 2015 & 2020

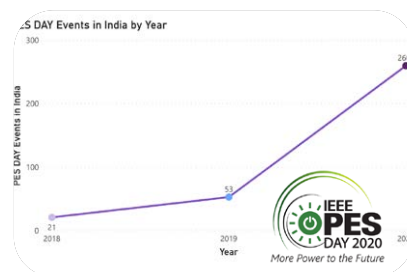
Indhumathi Gunasekaran, from Madras Section, Region10, was recently felicitated with the prestigious **WIE Inspirational Student Member Award 2020** for her stellar contributions. This award recognizes student members of IEEE WIE who have overcome barriers to pursue engineering and have made a personal impact in their community through their dedication and involvement in projects or activities directed toward fulfilling IEEE WIE goals and objectives.



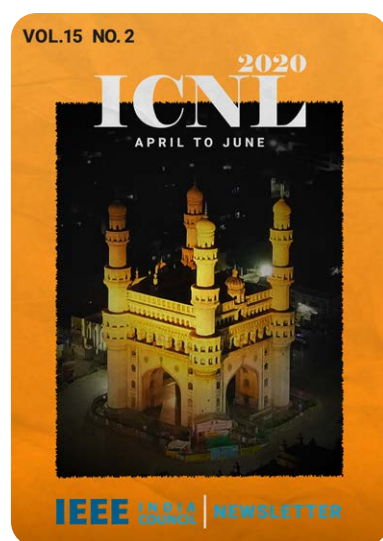
The elections of **Engineering Council of India (ECI) Board of Governors (BoG)** for the term 2020-22 successfully conducted on 10 June 2020. India Council is pleased to announce the appointment of Rajendra K Asthana - Ombudsman, IEEE-IC and, Chair, R10 Life Member to the BoG of ECI for the 2020-22 session.



After careful considerations and in the light of the Global Health crisis, IEEE Power & Energy Society (PES) and PES Day Leadership Team announced to halt traditional **PES Day** celebrations in April. Due to COVID 19, nearly 290 million children lost access to education. Considering this objective, IEEE PES supported carrying online 'PES Day - Educational & Technical Activities' at local chapters to make the volunteers' time productive. Since 2018, IEEE PES Day has been working together with IEEE student branches, PES Student chapters, Professional chapters, Young Professionals, WIE and PES WIP Volunteers. With diversified support from different communities, IEEE PES Day is supporting our volunteers and exclusively encouraging our female volunteers through IEEE PES WIP initiative. Delhi, Uttar Pradesh, Gujarat, Bangalore, Bombay, Hyderabad, Madras and Kerala Section actively participated in making this year's PES Day a success. Between the years 2019 and 2020 IEEE PES Day Events in India registered an increase of 390.57 %. The PES Day Events held in India also received highly positive feedback from the community. On behalf of IEEE PES Day leadership, the team would like to thank all the PES Day Ambassadors, PES and IEEE Volunteers in India and appreciate the support and hope to see the same engagement in the future activities.



## About Cover



The Vol. 15 No. 2 of the IEEE India Council Newsletter features the historic monument built in 1591, situated in the city of Nizams in the Deccan Plateau, the majestic & beautiful Charminar. The Charminar (lit. "four minarets"), is a monument and mosque located in Hyderabad, Telangana, India oftenly termed as Arc de Triomphe of the East bearing an interesting history that inspires us even today in addition to its architectural grandeur in its four minarets. According to historians, the scarcity of water and the epidemic of plague necessitated the shifting and construction of a new city. The Charminar was built as a founding tribute with the following couplets inscribed at the foundation stone "Fill this city of mine with people, as You filled the river with fishes, O Lord". In the same spirit for new beginnings amidst this crisis, we present to you the iconic picture of Charminar, overlooking the gigantic Makkah Masjid

and beautiful Chowmahalla Palace between the dazzling Lad Bazarin & the celebrated Old City captured by the talented Dulam Satyanarayana. Dulam Satyanarayana is an award-winning Indian documentary filmmaker from a small town Mancherla, Telangana known for his critically acclaimed documentary films Dreadful Fate, I am Satyabhama and Welcome to Telangana and recent viral video Hyderabad Lockdown which was shot during Covid19 pandemic. We deeply thank Satya for sharing this image for the cover picture of ICNL.

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IEEE India Council



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