



NEWSLETTER

INDUSTRY APPLICATIONS SOCIETY
STUDENT BRANCH CHAPTER
COLLEGE OF ENGINEERING
KARUNAGAPPALLY

EDITION II

TABLE OF CONTENT

| | |
|---|----|
| 1. Virtual Meet(3)..... | 02 |
| 2. Webinar on Decision points in Career and Life and being a volunteer..... | 02 |
| 3. Webinar on Technical Challenges in the Development of Jupiter Bond Interplanetary Spacecraft..... | 03 |
| 4. Virtual Meet(4) | 04 |
| 5. Virtual Meet(5) | 05 |
| 6. She Tech Series 2.0..... | 05 |
| 7. Virtual Meet(6)..... | 06 |
| 8. 2020 IEEE International Power and Renewable Energy Conference (IPRECON 20)..... | 07 |
| 9. About us | 14 |
| 10. Contact us | 14 |



1.Virtual Meet (3) (Execom and Organizing Committee) – IPRECON 2020

A third meeting regarding the **updates of IPRECON 20** was organised on the virtual platform Google Meet by **IEEE Student Branch College of Engineering Karunagappally in association with Industry Application Society 12th July from 7:00pm-8:00pm(+IST)**. The meeting illuminated the currently expected graph of registration count as well as the corresponding prices. The mentors stated the fact how registration forms the core of all the plotted strategies and that it is necessary to publicise the event as much as possible. The team members discussed the pros and cons of various schemes regarding the registration and formed a firm plan to enhance the level of involvement of people all over. A rough sketch of impending registration and its compatibility with the pricing was estimated, followed by the advisor concluding the meeting with her appreciation for the students to be so hard working.

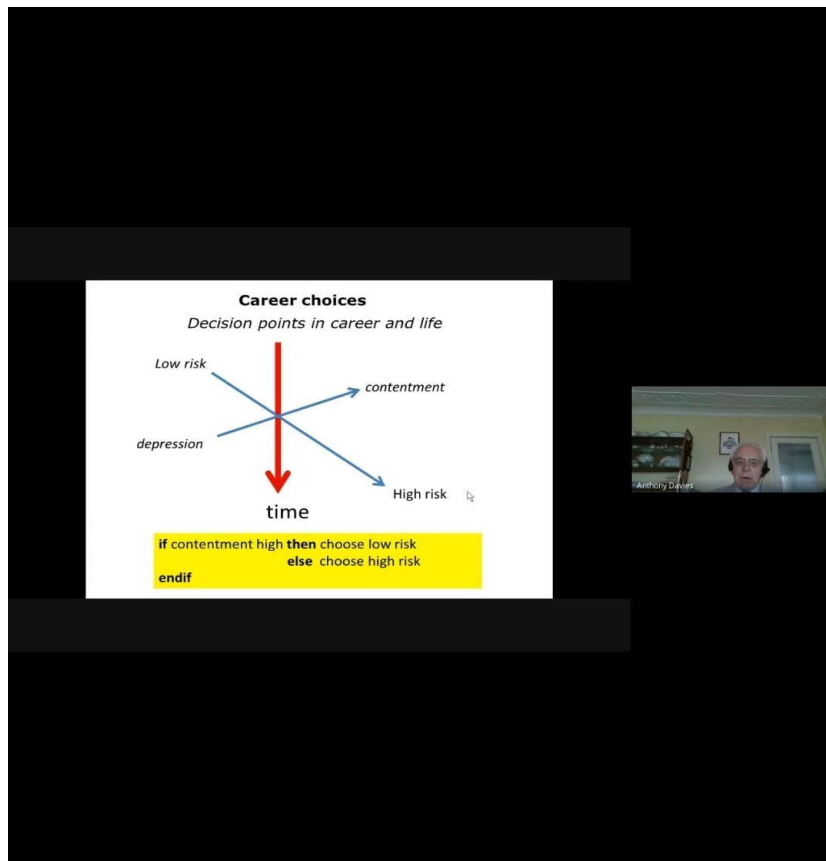
2. Webinar on Decision points in Career and Life and being a volunteer

IEEE Student Branch college of Engineering Karunagappally in association with Industry Applications Society organised a webinar on **Decision points in Career and Life and being a volunteer** by **Anthony C. Davies**, Military Service, British Army, Region 8 History activities coordinator, on **20th July 2020** at 7:00 pm(+IST). His session began with him presenting the slides that comprised his bio, his achievements as well experiences.

He focused mainly on the importance and need of career decision points that can literally upturn our lives in seconds. He mainly targeted at making the students realize that it is okay to be confused sometimes when we have a plethora of opportunities however that one must never give up and just follow the heart's desires strategically to reach their goals. He recalled well known fact that how decisions to control our lives in totally in our own hands. His presentation slides were quite enchanting they enrolled the fundamentals of the various stories, and proven examples that made his view-point stronger. He explained the fast track career growth for people who love challenges, are ambitious and want to push their limits. He discussed the trade-off between a well-paid job and a well-loved job and how to mitigate the stress in certain situations. He also discussed how volunteering affects our life and how being a Volunteer focuses on nurturing such networking with people from divergent backgrounds, building others' capacity as well as how it is an explicit platform for one's own technical and character development.

Most astonishing part of the session was about the topic "Young and dynamic culture" wherein he conveyed the importance of time and hard work and also about the persistence and patience one might need to improve in the respective work environment .We take off to mountains or beaches to recoup at least once a year and ensure we get together at the end of each quarter, and that is how he managed to express the firm belief that the work environment has to be balanced and made flexible by one's own perspective.

The number of attendance was around **62**, and hence the session was effectively able to offer an awareness about new opportunities and the purpose of Volunteering as it offers essential help to worthwhile causes, people in need, and the wider community. The participants gave enormous positive feedbacks encouraging us more to organize such technical seminars.



3. Webinar on Technical challenges in the Development of Jupiter Bond Interplanetary Space craft

Amidst the turbulent strike of the pandemic, virtual webinars are indeed a boon to the technically aspiring students as well as scholars. The students through all the bounding restrictions and challenges, claimed the knowledge through virtual platforms while the industrialists and professionals seem quite enthusiastic to furnish the spectrum of student's interest through their experience and their career-counselling.

IEEE Student Branch College of Engineering Karunagappally intends to relish the numerous portals in the scientific field which could add an overwhelming experience for the attendees and therefore IEEE SB CEK in association with Industry Applications Society conducted a webinar on **Technical Challenges in the development of Jupiter Bond Interplanetary Space Craft** by **Pablo Narvaez**, Principle Engineer, Section 513 Manager ,Reliability Engineering and Mission Environment Assurance , Jet Propulsion on 30th July 2020 at 7 pm (+IST).

The session was informative beyond expectations as Mr. Pablo utilized his experience in the field of Space Science and Jet propulsion while provided key elements in Exploration and Space craft. Within his allotted time, he managed to quite effectively envelope all the major spectrum relevant to this topic. He started off with GPS RF sub systems and its critical functions for space craft and positioning in orbit. His Presentation slides was absolutely brilliant in which he included the 3D overview of several fundamental bodies in space and other images of instruments.

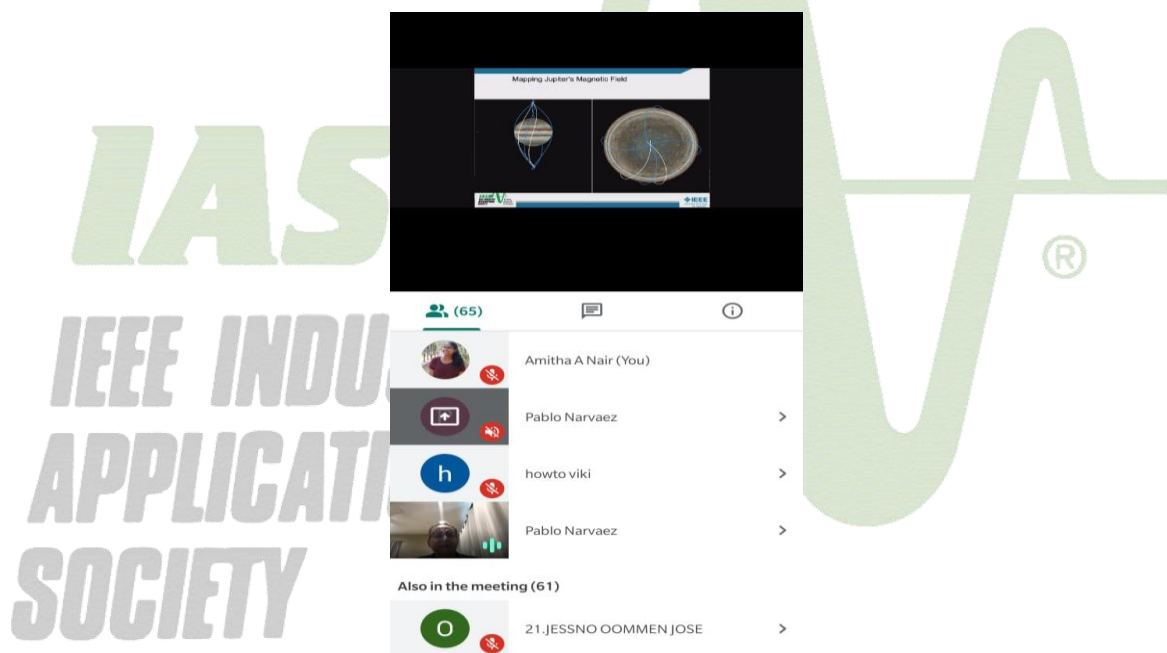
The lecture discussions comprised of the trending topics like wireless, other communication system modelling as well as the classical electromagnetic emissions and their applications. The spotlight

spread around as he explained the elementary PCB design for modelling with the approach of pulse Rise through Pico seconds. He was quite aware of making the attendees understand that he as well as the team had undergone through lots of challenges and shared his experiences and overview of several space missions organised under several Space organizations such as NASA.

The attendees were absolutely mesmerized as all their doubts regarding different modelling design to control of electric and magnetic systems and as they deeply learned how to plan and organize such missions through Mr. Pablo's own experiences. He inspired all the attendees who wish to study space science and missions by his interactions and life examples. The overall session was an incredible success as the number of attendees were around **65**.

The Q/A sessions were very interactive wherein the students and the SB team expressed their gratitude to Mr. Pablo Narvaez for all his contributions and efforts while the latter expressed his pleasure to be able to mentor the youth!

Such interesting topics about the intergalactic universe are indeed what the students need in today's world. As the theoretical and practical involvement are deep seated into the respective fields, the students often don't get enough opportunities to explore the mystical realms of science and therefore the virtual session indeed was a golden wing that led the students towards a flight of unravelling truths and technicalities.



4.Virtual Meet (4) (Execom and Organizing Committee) – IPRECON 2020

IEEE Student Branch College of Engineering Karunagappally intends to add a “Humanitarian Track” in the Global Conference IPRECON 20 in association with Industry Applications Society. The meeting was conducted on **9th August from 4:30pm-6:00pm (+IST)**. The team members expressed their curiosity and interest to be involved in a humanitarian platform and to help the overall welfare of a community. The team's streak of affirmation was evident of the fact that the track had to be involved. The main event as well as sub-events regarding the same was discussed. A whole other committee for the same was formed as well were explained their important roles. For further proceedings, a brief description was demonstrated by the mentors on how to contact certain established personalities for the global networking. The team members were extremely keyed-up while their passion and happiness to change the world was quite astonishing.

5.Virtual Meet (5) (Execom and Organizing Committee) – IPRECON 2020

A virtual meet was conducted within the Execom members by IEEE Student Branch College of Engineering Karunagappally in association with Industry Applications Society regarding certain discussions on IPRECON'20, India's first IEEE IAS CLUB OF 6 Technical Paper Conference on 26th September from 7:30pm - 8:30pm (+IST). The meeting was started off by Mr. Akshay Krishnan wherein he stated the main theme of today's discussion i.e. buying the hosting platform. Since the conference would be quite a high quality event comprising of numerous established personalities in their respective fields from all across the world, it is indeed necessary to have a smooth work-flow. The pandemic situation has prioritized virtual events however with that comes off the responsibility of effective management and strategic back-up plans in case of technical issues. Therefore, discussing all the challenges and a unanimous decision on how and what platform should be bought for the particular decision, the event came to an end. Mr. Akshay Krishnan has quite a lot of experience handling such events while the beaming eyes of the new Execom was quite majestic as they put forth their opinions and without any hesitation asked all their doubts.

6.SHE TECH SERIES 2.0 – PCB Design Using Proteus Software

IEEE student Branch college of engineering KARUNAGAPALLY in association with Women in Engineering Affinity Group and Industrial Application society organised "SHE TECH SERIES 2.0" a 3-day workshop on "PCB Design using Proteus Software". The workshop was handled by Mr. VARGHEESE BENNY Founder and CTO RABBITSQUARE LLP on 2nd, 3rd, and 4th October 2020 under Zoom Meeting platform.

Day- 1

As in the first day the session was started from 6:30 pm and the speaker given a brief introduction to PCB design by sharing some images of different types of PCB's, circuits, boards etc. There were attendees from all branches and from different states. Hence in the first day the speaker just tried to provide all the basics of electronics from component level. He shown sample of various components like resistors, transistors, diodes, led, then higher components like microcontrollers, integrated circuits then board like Arduino, breadboards, PCB etc. He fabricated the session more interactive by asking the specifications of each components as well as it's working then identification of various parts and many of them responded with different varieties of answers. After that he explains the working of some basic components and the session was end at 09:00 pm after discussing all the doubts.

Day- 2

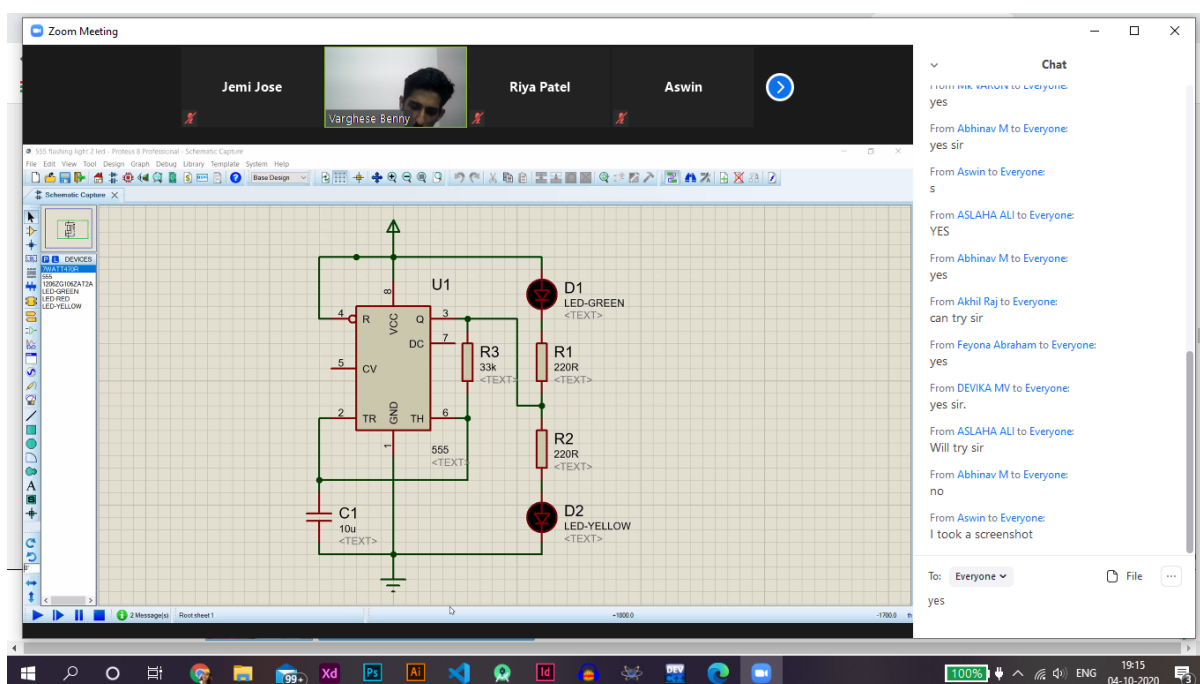
In the 2nd day of the workshop (3rd October 2020) the session was started at sharp 6:30 pm. The session kick offed quickly with the introduction of an idea on materials used in PCB manufacturing its parts functions etc. It sustained with the set out of all the procedures for designing PCB using Proteus software for which he made sure that each attendee installed all the required software and helped to those who faced some problems while starting the software and finally directed in managing to install libraries. Then he made up 5 group of 9 members each by arranging break out rooms were the team members discussed with their ideas and started arranging the components as seen from the circuit diagram. He verified the designs of some of the attendees and discussed with them and corrected all the mistakes and the group session was ended by 8:25 pm. At the end everyone gathered again for discussing and clearing all the doubts individually.

Day- 3

In the 3rd & final day of the workshop (4th October 2020), the session started by clearing all the queries of the previous session individually with the limited time and he grouped them in break out rooms after

assigning tasks. After completion of the designing of some teams, he explained the stimulation and all of them were doing accordingly in the same manner and at last the layout design and circuit was comparably same that of PCB. After the completion of the design at 8:25 pm there was doubt clearing session at the end in which the attendees were so thrilled and they interacted well and apart from the doubts on Designing, software implementation they are keen to know the opportunities of electronics in various IT field as well as core field and lastly then briefly discussed the importance of programming languages to get into core field and explored out the trending fields like IOT Robotics, embedded technology etc. And during the conclusion of the session he shared his experience in the field of consumer electronics and explained how to establish Start-ups etc.

The overall session can be marked as imprinted success and number of attendees was around 50 evident of the fact that the session was able to open a new era of creative portal in student's mind. The attendees also given positive feedbacks in encouraging us more to organize this type of technical workshops more and more.



7.Virtual Meet (6) (Execom and Organizing Committee) – IPRECON 2020

IEEE Student Branch College of Engineering Karunagappally in association with Industry Applications Society organised a virtual Meet regarding the discussion for IPRECON 2020, India's first ever IEEE IAS CLUB OF 6 Technical Paper Conference. The meeting was to discuss mainly about the closing ceremony and to closely analyse the overall schedule and come with prioritized sessions and their smooth handling. The meeting took place on **14th October, 2020 from 5:00pm-6:00pm (+IST)** and focused mainly on the approved key notes and special sessions during the ceremony. To send an e-Notice regarding the same was also discussed in the same.

Since it is supposed to be a global platform, the volunteers exclaimed their excitement and nervousness to be able to represent a Student Branch on such a high level is indeed one of the greatest opportunities. Various tips and guidelines were discussed regarding professionalism and active interaction to build the contacts.

8.2020 IEEE International Power and Renewable Energy Conference (IPRECON 20)

The inauguration of the much-awaited event commenced with Amitha A Nair, Chair, IEEE Student Branch College of Engineering Karunagappally delivering the IEEE Code of Ethics from 4:00 PM (IST) followed by the delivery of welcome speech by Mr. Akshay Krishnan, General chair IPRECON 2020. Mr. Jayaraj N R, General chair IPRECON 2020 delivered the presidential address while Mr. Hari Prasad, Technical Program Committee Chair IPRECON expressed the gratitude for IPRECON 2020 and shared the experiences gained from the journey of IPRECON 2020.. Prof. Georges Zissis, President IEEE IAS delivered the inaugural address followed by the felicitation speech delivered by Dr. V P Jyothiraj, Principal of College of Engineering Karunagappally and Dr. Jaya VL, Former Principal of College of Engineering Karunagappally. The inaugural ceremony turned out to be bounteous with the delivery of felicitation speech from Dr. –Ing. Peter Magyar, Past IAS CMD Chair and Ms Lesley Arakkal, IAS CMD Chair. Dr. Richard Cselko, Chair, Students Technical Events Committee also shared his wise words in the inaugural ceremony of IPRECON 2020. Ms Saradha Jaykrishnan, Chairperson Kerala Section, Prof. Muhammed Kasim S, Former Chairman IA/IE/PELS JT. Chapter Kerala and Dr. K Bijuna, Chairperson IA/IE/PELS JT. Chapter Kerala also delivered the felicitation speech in IPRECON 2020. The vote of thanks was delivered by Ms. Sherin Cherian, Publication Chair IPRECON 2020. The inaugural ceremony came to an end by the 6:30 PM (IST) with an astounding hope and enthusiasm that followed the rest of the conference.

The first imprint of India's first IEEE IAS Club of 6 Technical Paper Conference, **2020 IEEE International Power and Renewable Energy Conference** organized by IEEE Student Branch College of Engineering Karunagappally in association with **IEEE Industrial Applications Society** came to end on 1st November after three days of incessant activities and prolific deliberations of interesting as well as informative ideas. Due to the pandemic the virtual platform has been opted for the conference. The prime focus of the conference was on the challenges, latest developments and future technologies on the field Power and Renewable Energy. IPRECON 2020 received 146 submissions from several parts of the globe, after struck hard review process 36 were selected for the presentation.

The day 1 of IPRECON 2020 mainly comprised the technical paper presentation which was carried out as 2 sessions, inaugural ceremony and a Humanitarian track. At sharp 9:00 am IST the curtain for the first session "**Renewable Energy Resources & Energy Policies and Standards**" raised. The session chair was Dileep Krishna Mathi, Research Scholar, Department of Electrical Engineering, National Institute of Technology, Warangal, India.

Then the most awaited presentation session was started with the paper "Floating Solar Photovoltaic System: An Overview and their Feasibility at Kaptai in Rangamati" by Mr. Raihan Chowdhury and his team. There were also several more presentations in the session from various classes of division, which all are much informative, interesting and highly vibrant with the interaction of presenters, students, research scholars and professionals. It concluded with the SB offering a token of praise to the session chair through a memento.

The second session on the day was on "**Electric and Hybrid Vehicles & Energy Storage & Battery Charging Techniques**", the session chairs being Prasoon Chandran Mavila, Research Scholar, Department of Avionics, Indian Institute of Space Science and Technology, Thiruvananthapuram and

Nirmal Mukundan C. M, Research Scholar, Dept. of Electrical and Electronics Engineering Govt. College of Engineering, Kannur.

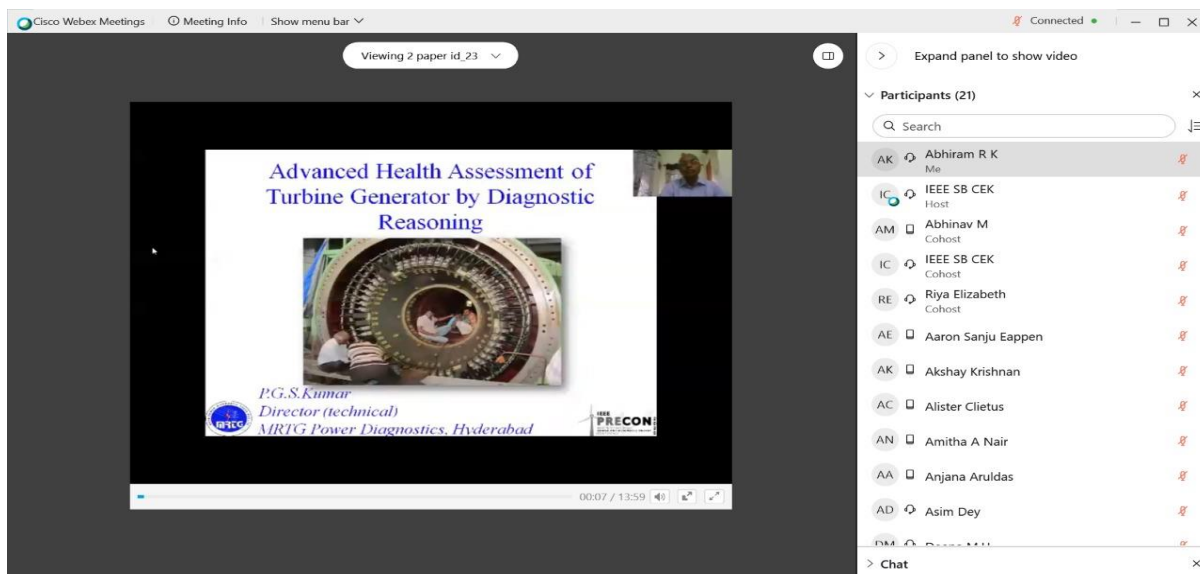
The session concluded at 2:00 PM IST by appreciating all the authors and presenters for their hard work and research and the session chairs were rendered a memento each for their cooperation and support.

The 3rd Session of the conference, **Distributed Generation and Grid Interconnection and Power Quality Issues**, scheduled on 31st November 2020 from 10:00 AM – 12:45, had Ms. Grace Sadhana Samuel, Research Scholar, dept. of Electrical Engineering, National Institute of Technology Calicut, as the session chair. With attendees including presenters, students, research scholars and professionals, the session turned interactive with the post-presentation discussions.

The 4th session in IPRECON 2020 was **Electric Machines and Drives**, with Ms. Krishna Kumari K, Research Scholar, Amrita University, Coimbatore, Tamil Nadu, as the session chair. Scheduled on 31st October 2020 from 1:30 PM – 3:00 PM, the session witnessed some exceptional papers that have induced interest in the attendees. The time management and session coordination of the team were also well commendable.

The third day of IPRECON 2020 started with the paper presentation session on **“Power Electronic Converters and Control Systems”**, the session chair was S. Madhu Babu, Research Scholar, Department of Electrical Engineering, National Institute of Technology (NIT), Warangal. The session was started at 10:00 AM IST and was having a total of 7 paper presentations. Thus, the whole paper presentation of IPRECON 2020 was concluded and it was a very interesting session and the paper presented a wide range of new knowledge along with appropriate indigenous or local technologies, many queries were cleared. As a token of gratitude to the session chair for his commitment and for the impulsive suggestions and opinions a memento was awarded to him. The session ended up at 12:00 PM IST.

The closing ceremony was from 3:00-4:00 PM IST wherein Amitha A Nair, Chairperson IEEE SB CEK moderated the ceremony. Mr Jayaraj N R, General Chair IPRECON 2020 welcomed all the respectable guests and attendees and expressed how the ideology and vision of the conference proved out to be extremely in favour of the technical development. Dr. Peter Magyar, past IAS CMD Chair delivered the valedictory address followed by Dr. Richard Cselsko, Chair, Student Technical Events Committee, IAS CMD, Prof. Lillykutty Jacob Chair, Conference Activity Board, IEEE Kerala Section delivering their remarks and feedback for the event. The success of the conference was measured and inferred by the feedbacks and remarks, and a considerable amount of advice was collected from the contributors of the event. A Presentation of another Club of 6 conference to be held in 2021 by NIT-Trichy was taken by Mr. K. Kannadasan, Chairman & Secretary, IEEE student branch, NIT-Trichy wherein he introduced his Student Branch, their ideal vision as well as how they expect to conduct the event. Mr. Akshay Krishnan, General Chair IPRECON 2020 delivered the vote of thanks, he conveyed his gratitude to all the participants, section chairs, speakers all other dignitaries in his capacity as general chair for the conference.



Keynote on “Future of solar PV applications: Bangladesh perspective”

A keynote speech of IPRECON 2020 was primed on **“Future of solar PV applications: Bangladesh perspective”** by Prof. M Rezwan Khan Professor, United International University, Bangladesh. He pointed out some enlightening entities in the field which was appreciated by the attendees and hence was offered a memento as a token for his incredible efforts and support for the event. The session was incremented in every second with a newly updated knowledge which made the day much more countable. Many attendees joined the meet and were curious about the upcoming sessions. IEEE Student Branch College of Engineering Karunagappally offered their overwhelming gratitude to the speaker through a memento.

Keynote on “Developments in Vehicle Electrification”, Dr. Tomy Sebastian

A keynote address on **“Developments in Vehicle Electrification”, Dr. Tomy Sebastian**, Immediate Past President, Industrial Applications Society. The session focused of the relevance of electrified vehicles in the current and future world, sharing some of the developments introduced in various emerging vehicles. The session was incremented in every second with a newly updated knowledge which made the day much more countable. Many attendees joined the meet and were curious about the upcoming sessions. The session concluded with an interactive session, where the attendees were asked to share their queries on the topic. IEEE Student Branch College of Engineering Karunagappally rendered a memento for his exceptional efforts.

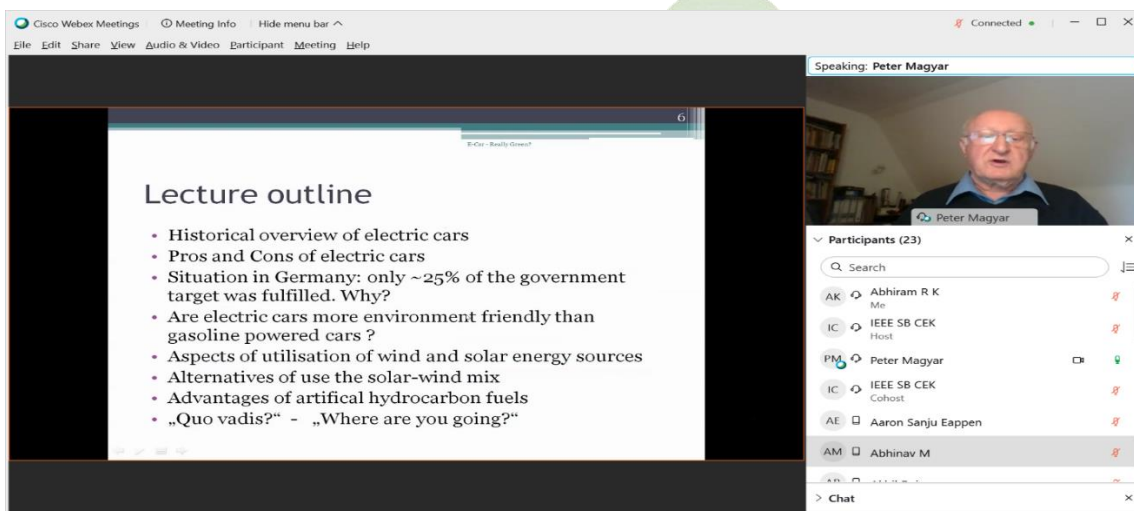
Keynote on Power Electronics - The Key Technology for Grid Integration

The keynote session on **Power Electronics - The Key Technology for Grid Integration** with **Prof. Frede Blaabjerg**, President of IEEE Power Electronics Society (2019-2020) as the speaker. Within a limit amount of time, he was quite efficiently able to point out the crucial points followed by the needs and benefits of power electronics in his sessions. The attendees seemed quite enthralled as his presentations opened up some incredible possibilities of technical advancements for the future.

Overall the session was out of the blue for every individual. IEEE Student Branch College of Engineering Karunagappally offered their submerged gratitude to the speaker through a memento.

Special session on “The Potential of Electricity- Based Fuels of low-emission Transport”

A special session on “**The Potential of Electricity- Based Fuels of low-emission Transport**” was handled by Dr. Peter Magyar, Consultant M&PP, Director of Chapter Development, Industrial Applications Society. It addressed the rising potential and market of renewable and electricity-based fuels in transportation. Not only the students and the undergraduates, but also the professionals involved in an interactive spectrum of questions and challenging solutions.



Poster Presentation

A **poster presentation** under the **humanitarian track** was undoubtedly a priceless addition. An opportunity to expand the professional networking and master new thoughts and techniques, it exhibited the diverse events organized in different IEEE Student Branches themed under Green Energy. The four selected finalists, IEEE SB Jawaharlal College of Engineering and Technology (IEEE SB JCET), IEEE SB NSS College of Engineering, IEEE SB Vishwajyothi College of Engineering and Technology (IEEE SB VJECT) and IEEE SB Adi Shankara Institute of Engineering and Technology (IEEE SB ASIET), then presented their posters before the attendees. The posters were evaluated by Ms. Staji Wilson (Assist. Engineer trainee at TCS, IEEE PES WiP Sub Regional Representative), Mr. Anandhu S Kumar (Senior Executive -Wipro Light Designing and IEEE PES YP Student Transition and Elevation lead), Mr. Anish MS (IEEE PES YP Global Relations Coordinator) and Mr. Saran KS (Junior Engineer of Track Machines Department at Indian Railways, and Activity Coordinator at IEEE PES YP). The humanitarian poster presentations concluded with a fascinating discussion session by the Student Branch finalists and the evaluators. The posters and especially the idea behind the projects were highly appreciated and hence validated the implementation of such conferences.

The screenshot shows a Cisco Webex meeting interface. The main content area displays a presentation slide titled "IEEE STUDENT BRANCH NSS COLLEGE OF ENGINEERING PALAKKAD". The slide is divided into several sections:

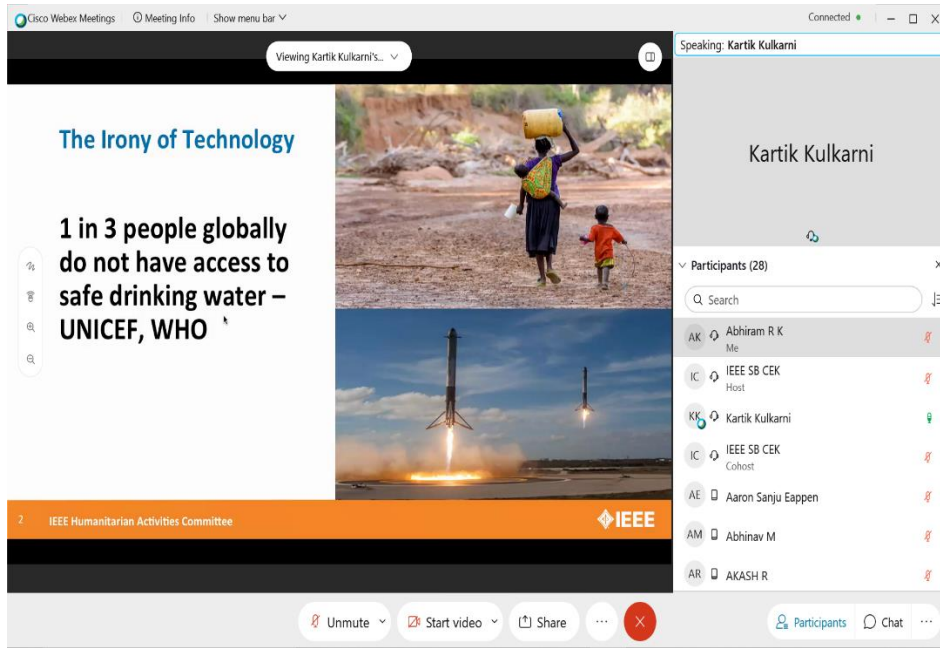
- HUMANITARIAN EVENTS & PROJECTS:**
 - IEEE PES 0 Hunger Day:** Food donation for a tribal village, able to feed 50 people. Location: Kava, Palakkad. Aiming as a recurring event.
 - IEEE PES HAC Project:** Emergency Lamp for Village Solar Lamp and LED Bulb Installation. Location: Kava, Palakkad. Aiming for HAC Project.
 - IEEE Day Celebrations:** Book and Amenities Distribution. Equipped 25 students with Books. Location: Railway Colony, Palakkad. Aiming as a recurring event.
 - IEEE PES MDI Project:** Electrification using Solar DC Systems for 5 Houses Mannarcad, Palakkad. Aiming as an extension for SID Event.
- OTHER HUMANITARIAN ACTIVITIES:** Food distribution as part of Teachers Day | Manufactured Automatic Sanitizers in time of COVID 19 | Manufactured 1200 emergency lamp in time of Kerala Flood.
- MAJOR EVENTS:**
 - XPERION - 4 Day National Level Technical Event**
 - ENCRYPTA - National Level Coding Contest**
 - SAURORJA - Student Branch Level Solar Training Program**
 - AKIASSC - All Kerala IAS Student Conclave**
- AWARDS AND ACHIEVEMENTS:**
 - Gold:** - IEEE PES Student Chapter (2019) - PES Kerala Chapter
 - Bronze:** - IEEE IAS Student Chapter (2018) - IAS Kerala Chapter
 - 7th:** - Best Student Branch Award (2019) - Kerala Section
 - 14th:** - IEEE PES HPSBC Award (2019) - Global
 - 19th:** - IEEE PES Membership Count (2019) - Global
 - Best Humanitarian Student Volunteer Award - Kerala Section (2019)**
 - Best PES Student Volunteer Award (2019)** - PES Kerala Chapter
 - Best IAS Student Volunteer Award (2018)** - IAS Kerala Chapter

On the right side of the interface, there is a "Participants (40)" list with a search bar and a "Speaking: Sreelakshmi Manoor" indicator. The list includes names like Abhiram R K, IEEE SB CEK, Aaron Sanju Eappen, etc.

Humanitarian Track – IPRECON 2020

The conclusion session of day 1 of IPRECON 2020 was a Humanitarian Track. The track comprised poster presentation on green energy, talks on sustainable development encapsulating all the core parts of sustainability. The session was also turned pretty notable with talk by Mr. Kartik Kulkarni on **“Transforming challenges into innovation through IEEE HAC.”** In short, the day was indeed a well spent one.

From 7:00-8:00 PM a session on **“Sustainable development goals and objectives”** by Mehak Azeem, STEM motivator speaker was held as a part of humanitarian track of IPRECON 2020. With that it came to an end to the India’s first IEEE IAS club of 6 technical paper conference, IPRECON. Her detailed presentations including various initiatives taken throughout the world and numerous ones that are yet to be taken in order to inflict the fact and importance of a sustainable world amidst the attendees. It was a stepping stone for the attendees to flourish in the future and was hence offered a memento as a token of appreciation from the Student Branch.



IPRECON 2021

2021 IEEE International Power and Renewable Energy Conference (IPRECON)

2021 IEEE International Power and Renewable Energy Conference (IPRECON) is the 2nd edition of India's first Club of 6 Technical Paper Conference organized by IEEE Student Branch College of Engineering Karunagappally (IEEE SB CEK), technically sponsored by IEEE IAS, IEEE PES and IEEE PELS. IPRECON provides a platform for students and professionals from all around the world to share their findings in the fields of Power, Renewable Energy and Computing Technologies. With the theme "Engineering the sustainable world with Renewable Energy Resources through ingenious computing technologies", the conference will be held on the 24th, 25th and 26th of September 2021 in College of Engineering Karunagappally, Kerala, India.

CALL FOR PAPERS

Technical Papers are solicited on subjects pertaining to the scope of the conference that includes, but not limited to the topics

- Power Electronic Converters and Control System
- Wide Band Gap Devices
- Electric Machines and Drives
- Renewable Energy Resources
- Distributed Generation and Grid Interconnection
- Electric Vehicles
- Energy Storage and Battery Charging Techniques
- Power Quality Issues
- Microgrid and Smartgrid
- Lighting Technologies
- Energy Policies and Standards
- Artificial Intelligence Techniques
- Cybersecurity
- Nature Inspired Algorithms and Machine Learning
- Deep Learning
- Big Data Analytics
- Surveillance and Monitoring
- Fuzzy Semantic Web
- Swarm Intelligence and Algorithms for Optimising Smart Cities

PAPER SUBMISSION

Authors are invited to submit papers 6 page full paper in standard IEEE format for review. The conference proceeding will be submitted to the IEEE Xplore® Digital Library.

20% of the presented conference papers will be eligible for further review and possible publication in the IEEE IAS periodicals (Transactions, Magazine)

Dates : 24th, 25th and 26th September

16TH
JAN 2021

**PAPER SUBMISSION
OPENING DATE**

15TH
APRIL 2021

**PAPER SUBMISSION
CLOSING DATE**

31ST
MAY 2021

**NOTIFICATION OF
ACCEPTANCE**

15TH
JUNE 2021

**CAMERA READY
PAPER**



Location:
Karunagappally, Kerala, India

COLLEGE OF ENGINEERING
KARUNAGAPPALLY

for more details visit **iprecon2021.org**

About Us

IEEE Student Branch College of Engineering Karunagappally (STB 03951) is one of the oldest IEEE student branch in IEEE Kerala section, 4th branch in Travancore hub. Second IEEE Student Branch in Kollam (Quilon) district. IEEE SB CEK was founded in 13th May 2009 at College of Engineering Karunagappally.

In 2010 Jyothi L from the Dept. of CSE become branch counselor. In 2014 Raju M (Dept. Of EEE) become SB Counselor. Dedication and hard-work of our new counselor SB become active. Today IEEE SB CEK is one of the vibrant student branch in Asia Pacific Region(R10).

Contact Us

IEEE Student Branch

College of Engineering Karunagappally

Thodiyoor P.O, Karunagappally,

Kollam District, Kerala, India – 690523

EMAIL

ieeesbcek2000@gmail.com