IEEE IAS SB Chapter NCU
Orientation Session

Presented by:
Rajesh M. Pindoriya
Chairperson of IEEE IAS SB Chapter IIT Mandi, India
rajeshpindoriya@ieee.org
Outlines

- About: IEEE IES SB Chapter IIT Mandi
- What is IEEE and IAS?
- Values of IEEE IAS Membership
- Travel Grants and Awards
- IAS Annual Conferences and Research Opportunity
- Professional Networking and Experience
- The club 6 event: Student led Conferences
- The Excellent Chapter Development in Region 10
IIT Mandi Campus
About: IEEE IIT Mandi SB Chapter

- We are a student-run organization at the IIT Mandi, our motives are to find ourselves and our passions, to have fun and meet new people, gather new experiences, to learn industrial skills to enhance ourselves, to learn about research and innovation in technology, to help our community and to get inspired to change the world!

Website: https://ieee.iitmandi.ac.in/index.html
IEEE IES SB Chapter IIT Mandi: Societies
IEEE IAS SB Chapter IIT Mandi Received Award in 2019

1. Continued outstanding performance student branch chapter award in 2019
2. 2nd Rank in chapter web contest award in 2019
3. Outstanding student branch chapter chair award in 2019
4. Outstanding student volunteer award in 2019 from IEEE Delhi section
What is IEEE?

The IEEE (Institute of Electrical and Electronics Engineers) describes itself as

the world's largest technical professional society promoting the development and application of electro technology and allied sciences for the benefit of humanity, the advancement of the profession, and the well-being of our members.

IEEE and its members inspire a global community through IEEE's highly cited publications, conferences, technology standards, and professional and educational activities.
IEEE Membership Grades

- Student Member
- Graduate Student Member
- Associate Member
- Member
- Senior Member
- Fellow
- Life Member
IAS Vision Statement

IEEE Industry Applications Society will be a world leader in the advancement of science and technology linking theory and practice in the application of electrical and electronic systems for the benefit of humanity.

IAS Mission Statement

IEEE Industry Applications Society enables the advancement of theory and practice in the design, development, manufacturing and application of safe, sustainable, reliable, smart electrical systems, equipment and services.

https://ias.ieee.org/about-ias.html
IAS Sister Societies

Power & Energy Society

Power Electronics Society

Dielectrics and Electrical Insulation Society's

Industrial Electronics Society

https://ias.ieee.org/about-ias/ias-sister-societies.html
The Value of IEEE Membership

Knowledge ...
• staying current with the fast-changing world of technology

Community ...
• unparalleled networking opportunities, and the buying power into low, members-only rates on benefits and services

Profession ...
• empowering members to build their careers, and giving back to society
Benefits: Keeping Technically Current

1. Certified Software Development Professional
2. e-Book Classics
3. IEEE Member Digital Library (Access to)
4. IEEE Potentials Magazine - Digital
5. IEEE Potentials Magazine - Print
6. IEEE Societies
7. IEEE Spectrum Magazine
9. IEEE Standards
10. IEEE WCET Certification Program
11. IEEE Xplore Abstracts
12. IEEE-USA eBooks
13. IEEE.tv
14. Proceedings of the IEEE
Benefits: Career Resources & Recognition

- Awards
- Career Webinars
- eLearning Library
- IEEE Continuing Education Providers Program
- IEEE Job Site
- IEEE Mentor Centre
- IEEE Women in Engineering
- Member Grade Elevation
- My IEEE
- Resume Lab
- Student Awards, Scholarships, Fellowships
## Benefits: Professional Networking

<table>
<thead>
<tr>
<th>Benefit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Discount on IEEE Conferences</td>
</tr>
<tr>
<td>Google Apps@ IEEE</td>
</tr>
<tr>
<td>IEEE e-mail Alias</td>
</tr>
<tr>
<td>IEEE member Net</td>
</tr>
<tr>
<td>Local Meetings</td>
</tr>
<tr>
<td>Online Communities</td>
</tr>
<tr>
<td>Volunteering</td>
</tr>
<tr>
<td>Young Professionals (formerly GOLD)</td>
</tr>
</tbody>
</table>
Benefits: Member Discounts

IEEE books and eBooks, journals and articles, conferences and proceedings, standards, society memberships, and continuing education courses.

In addition, members have access to a variety of affinity programs that offer savings.

IEEE Member Discounts offer substantial cost savings on a variety of products and services as a benefit of IEEE membership.
Volunteering Opportunities

Student Branch  Local Section  Region  Globally
Membership Benefits Include

Publications

Print & Digital Subscription
- IEEE IAS Magazines
- IEEE IAS e-Newsletter

Online Subscriptions
- IEEE Transactions on Industrial Application
- IEEE Journal of Emerging and Selected Topics on Power Electronics
- IEEE Transactions on Sustainable Energy
- IEEE Transactions on Transportation Electrification
- IEEE Transactions on Smart Grid
- IEEE Journal of Photovoltaics
- IEEE Electrification Magazine
- All sponsored conference proceedings
Informative Meetings, Seminars and Conferences

1. IEEE IAS Annual Meeting
2. Energy Conversion Congress and Exposition
3. Applied Power Electronics Conference
4. Cement Industry Conference
5. Industrial Energy Efficiency Workshop
6. Industrial and Commercial Power Systems Conference
7. Petroleum and Chemical Industry Conference
8. Pulp, Paper and Forest Industries Conference
9. Rural Electric Power Industry Conference

https://ias.ieee.org/events-conferences/conference-schedule.html
Industry Applications Society Newsletter

Industry Applications Society Newsletter provides news on recent and upcoming events relevant to members of the Industry Applications Society. The current newsletter Editor is Gustavo Ramos Lopez, gramos@uniandes.edu.co.
IEEE IAS Student Awards

1. IAS CMD Outstanding Member Award in every year
2. IAS CMD Outstanding Chapter Award in every year
3. IAS CMD Chapter Web Contest in every year
4. IAS CMD Most Happening IAS Chapter Contest in every year
5. IAS CMD Student Thesis Contest in every year
6. IAS CMD Myron Zucker Undergraduate Student Design Contest in every year
7. IAS Myron Zucker Student-Faculty Grant Program in every year
8. IAS CMD Student Robotics Demonstration Contest in every year
9. IAS CMD Humanitarian Contest in every year
10. Annual Meeting Travel Grant Award (AMTGP)

Deadline of Application: March 31, of the year

IEEE IAS Awards

Andrew W. Smith Outstanding Young Member Achievement Award

Distinguished Service Award

Outstanding Achievement Award

Outstanding Young Member Service Award

Kliman Award
1. IEEE Standards Education Grants

The IEEE Standards Education Committee (SEC) grants US $500 for students (per project) and US $300 for faculty mentors to help complete senior, undergraduate or graduate projects. Projects may be for design, capstone, development or research in which an industry technical standard(s) was applied to complete the project.
Travel Programs

IAS Technical Conference Visit Program for New IAS Chapters

Eligible chapters are new chapters i.e. those with approval date later than Jan 1, of every year. Please find details about the program in the

Application Form

IAS CMD Conference Student Publication and Travel Grant Program

Conference Student Travel and Publication Support Application Form

https://ias.ieee.org/chapters-membership/travel-programs.html
The IAS CMD WIE travel grant program is open in month of May in every year.

The program will allow IAS members to apply for a travel grant to attend a local WIE International Leadership Summit (ILS).

**Guidelines**  
**Application online form**
APEC and ECCE Conference Travel Grant Programs

Myron Zucker Prevention Through Design - Student Engineering Education Initiative (ESW Travel Grant Program)

AMTGP
Annual Meeting Travel Grant Program, AMTGP

https://ias.ieee.org/chapters-membership/travel-programs.html
CMD Newsletter

The chapters are welcome to read the CMD Newsletter and submit their contributions, too. The submissions are considered automatically as a participation in the Most Happening IAS Chapter Contest.

**Most Happening IAS Chapter Contest Bylaws**

Evaluation due date of the Contest: March 15\textsuperscript{th} of the year.

Link of the **CMD Newsletter Submission** for taking part in the Most Happening Chapter Contest.

The link works if the submission file is <1MB.

If you need assistance at posting your material in the Newsletter, please contact **Mr. Jay Shah**, Newsletter Task Manager.
CMD Financial Programs

Starting Subsidy for New Chapters
IAS provides starting subsidy for all new technical, student branch and joint chapters.

Chapter Subsidy for Technical Activities

https://ias.ieee.org/chapters-membership/cmd-financial-programs.html
IEEE SAC Awards

MGA Awards
• IEE Student Enterprise Award
• Larry K. Wilson Regional Student Activities Award
• IEEE Regional Exemplary Student Branch Awards
• IEEE Outstanding Branch
  – Counsellor and Branch
  – Chapter advisor award
• The Darrel Chong student activity award
  – R10 SAC Awards
• IEEE R10 SAC Volunteer Award
• IEEE R10 SAC Student Volunteer Award
• IEEE R10 SAC Student Branch Award
Free First Year IAS Membership

Offer: Free first year IAS Membership for Active IEEE (both higher grade and student grade) Members
Description: IEEE Industry Applications Society (IAS) Society Membership for 2020 Promotion Code: IASLRP

IAS Distinguished Lecturer and Prominent Lecturer Program

https://ias.ieee.org/chapters-membership/distinguished-lecturer-program.html
Chapters Annual Meeting 2020

IAS CMD and Chapters Annual Meeting, Detroit, Michigan USA, 11-15, October 2020

https://ias.ieee.org/2020annualmeeting.html
Joint Publications

Electrification

Smart Grid

Sustainable Energy

The IAS Education Department is responsible for evaluating educational opportunities for IAS members.

IEEE IAS Expert Webinars

https://ias.ieee.org/education.html

Chapter development 1964-2020
“Way from 0 to 463”

Source: from Prof. Peter, Life Fellow, IEEE, IAS Director of Chapter Development 2019
IAS Student-led Technical Paper Conferences

The club of 6
IAS is technical co-sponsor of 6 student led technical paper conferences

*Club of 6 Formation Meeting: Portland WA, USA, Oct 5, 2016 Organizers of the first six conferences*

*Source: from Prof. Peter, Life Fellow, IEEE, IAS Director of Chapter Development 2019*
The Club of 6
Conditions of the club membership

- What is a student-led technical paper conference?
  - Organized „by students for students“ and not „by professors for students or for professors“.
    The professors and other authorities are welcome in the Conference Advisory Board but not in the Org Commitees.
  - Organized by IEEE Student Branch or IAS Student Branch Chapter. This should be clearly displayed in the conference website and CFPs.
  - Character: technical paper conference
    - Paper submission and oral presentation sessions are mandatory
    - Poster session, demonstration exhibition, keynote speeches, technical tour etc. are welcome but not eligible conditions
  - Mandatory conditions:
    - IEEE standard paper review process
    - Registration at IEEE Conference Department
    - IAS technical co-sponsorship
    - IAS seminar / workshop held at the conference
  - Opportunity:
    - Selected papers could be published in Xplore

Source: from Prof. Peter, Life Fellow, IEEE, IAS Director of Chapter Development 2019
IAS is very proud of being technical co-sponsor of student led technical paper conferences (The Club of 6)

<table>
<thead>
<tr>
<th>Reg</th>
<th>Conference / Host / Organizer</th>
<th>Founder Group 2016</th>
</tr>
</thead>
</table>
| 1   | **Power and Energy Conference in Illinois, PECI’2020**  
- University of Illinois Urbana-Champaign SB PES/IAS/PELS Chapter, Urbana-Champaign, IL USA | Annual, 2010-  
Feb 27-28, 2020  
[https://www.peci.ece.illinois.edu/](https://www.peci.ece.illinois.edu/) |
| 2   | **Texas Power and Energy Conference, TPEC’2020**  
- Texas A&M University SB PES/IAS/PELS Chapter, College Station, TX USA | Annual, 2017-  
Feb 6-7, 2020  
[http://tpec.engr.tamu.edu/](http://tpec.engr.tamu.edu/) |
| 3   | **International Youth Conference on Energy, IYCE’2021**  
-Budapest University of Technology and Economics SB PES/IAS Chapter, Budapest, Hungary | Biannual, 2007-  
XXXX, 2021  
| 4   | **International Young Scientists Forum, YSF**  
-IRE NASU SB IAS Chapter, Ukraine, (Co-organizer) | Annual, 2014-17  
Pending 2018  
[https://www.facebook.com/YoungScientistsForumUkraine/](https://www.facebook.com/YoungScientistsForumUkraine/) |
| 5   | **Future Integrated Network System, FINS**  
- UK&I Section SB IAS Chapters, United Kingdom | Planned 2016-  
Not realized |
| 6   | **Workshop on Power EL. and Power Quality Appl., PEPQA**  
-University of the Andes SB IAS Chapter, Bogota, Colombia  
-University of the Andes Cartagena Campus, Colombia | Biannual, 2013-  
[http://web.pepqa.co/](http://web.pepqa.co/)  
June XXXX, 2021 |

Source: from Prof. Peter, Life Fellow, IEEE, IAS Director of Chapter Development 2019
<table>
<thead>
<tr>
<th>Reg</th>
<th>Conference / Host / Organizer</th>
<th>Second Generation 2018-</th>
</tr>
</thead>
<tbody>
<tr>
<td>8</td>
<td><strong>Student Conference on Electrical Machines and Systems, SCEMS</strong>&lt;br&gt;- SCEMS 2018  Zhejiang University Science and Technology&lt;br&gt;SB IAS Chapter, Hangzhou, Zhejiang, China&lt;br&gt;- SCEMS 2019, Kyungshung University SB IAS Chapter, Busan, South Korea&lt;br&gt;- SCEMS 2020, Shandong University Student Branch IAS Chapter, Jinan, Shandong, China</td>
<td>Annual, 2018-&lt;br&gt;Dec 4-6, 2020&lt;br&gt;&lt;a&gt;<a href="http://www.scems2020.com/">http://www.scems2020.com/</a>&lt;/a&gt;</td>
</tr>
</tbody>
</table>

**Source:** from Prof. Peter, Life Fellow, IEEE, IAS Director of Chapter Development 2019
## New Conferences 2020

<table>
<thead>
<tr>
<th>Reg</th>
<th>Conference / Host / Organizer</th>
<th>New Conferences 2020</th>
</tr>
</thead>
<tbody>
<tr>
<td>12</td>
<td><strong>Kansas Power and Energy Conference, KPEC’2020</strong>&lt;br&gt;- Kansas State University SB IAS Chapter, Manhattan, KS USA</td>
<td><strong>Annual</strong>&lt;br&gt;July 13-14, 2020&lt;br&gt;<a href="https://www.kpec-ksu.org/">https://www.kpec-ksu.org/</a></td>
</tr>
<tr>
<td>14</td>
<td><strong>China International Youth Conference on Electrical Engineering, CIYCEE’2020</strong>&lt;br&gt;- 1st, Huazhong University of Science and Technology SB IAS Chapter, Wuhan, Hubei, China&lt;br&gt;- 2nd, Southwest Jiaotong University SB IAS Chapter, Chengdu, Sichuan, China</td>
<td><strong>Annual</strong>, alternatively organized by two SB chapters&lt;br&gt;<a href="http://www.ciycee.com/">http://www.ciycee.com/</a>&lt;br&gt;Nov 2-4, 2020&lt;br&gt;<strong>In preparation</strong>&lt;br&gt;Nov XX, 2021</td>
</tr>
</tbody>
</table>

*Source: from Prof. Peter, Life Fellow, IEEE, IAS Director of Chapter Development 2019*
<table>
<thead>
<tr>
<th>Reg</th>
<th>Conference / Host / Organizer</th>
<th>New Conferences in preparation, 2021</th>
</tr>
</thead>
<tbody>
<tr>
<td>16</td>
<td>R10 India National Institute of Technology Trichy SB IAS Chapter, Thiruchirappalli, Tamil Nadu, India</td>
<td>In preparation XXXX, 2021</td>
</tr>
<tr>
<td>17</td>
<td>R10 India Indian Institute of Technology Mandi SB IAS Chapter, Mandi, Himachal Pradesh. India</td>
<td>In preparation XXXX, 2021</td>
</tr>
</tbody>
</table>

Source: from Prof. Peter, Life Fellow, IEEE, IAS Director of Chapter Development 2019
The Excellent Chapter Development in Region 10

Plan to organize maximum IEEE IAS activities such as Technical, non-technical, administrative and outreach.
Thank You Very Much for Your Attention