Region 10 Karachi Section Report

PART A - SECTION SUMMARY

A.1 Executive Summary

- Section Executive Committee Member List: The Executive Committee (ExCom) has 37 members. Their names are as follows,
  - Dr. Bhawani. S. Chowdhry, Chair
  - Dr. Tariq Soomro, V. Chair
  - Dr. Asim ur Rehman Khan, Secretary
  - Engr. Moiz Rahman Memon, Treasurer
  - Dr. M. Shahid Shaikh, Past Chair
  - Dr. M. Shahab Siddiqui, Chair, MD & NIC
  - Engr. Parkash Lohana,
  - Engr. Tahir Saleem, Chair, PES
  - Dr. Syed Hayder Abbas, Chair, ComSoc
  - Dr. M. Sadiq Ali Khan, Chair Education Activities (EA)
  - Engr. Bhagwandas Lohana, Chair, CS
  - Dr. Bushra Naeem, Chair WIE
  - Engr. Atif Fareed, Chair SAC
  - Engr. Noorali Amarsi,
  - Engr. Murtaza Hanif,
  - Engr. Mumtaz Hussain Soomro,
  - Engr. Khalid bin Muhammad,
  - Engr. Saqib Munawwar,
  - Engr. Rabeet Sagri,
  - Engr. Haris bin Ashraf, Chair, IAS
  - Rafay Shaikh, SSR
  - Engr. Ramiz Ansari, Chair, IAS
  - Dr. Valiuddin Abbas,
  - Dr. Imran Majid,
  - Dr. M. Faisal Khan,
  - Engr. Imran Zafar,
  - Dr. Krishan Lal Khatri,
  - Dr. M. Ibrar ul Haq,
  - Dr. Burhan Khan,
  - Engr. Tauseef Mubeen,
  - Dr. M. Ali Memon,
  - Dr. Isma F. Siddiqui,
  - Dr. Ahmed Usman,
  - Engr. Junaid Ahmed Memon,
  - Engr. Ishtiaq ul Haq.

- Section Highlights
  One AGM, 6 ExCom meetings, and 6 Officers meetings were held during the year 2020. The AGM was held physically. Two ExCom meetings and 2 Officer’s meetings were also held physically. The remaining ExCom and Officer’s meetings were held online due to Covid-19.
  
i) R10 POCO: An online Workshop R10 POCO (Panel of Conference Organizers) was held on November 21, 2020. The purpose of this workshop was to educate and train the personnel at various universities and other institutions who are interested in holding a National or International Conference during the next year. R10 approved an incentive of USD 250/-. 

ii) VoLT: Volunteer Leadership Training. A volunteer training activity was held. This was attended by several volunteers from many universities of the region under Karachi Section. The activity was held online on July 25, 2020. The number of participants were 88. Among them 55 were IEEE members.

iii) SPAA: Students Professional Awareness Activity. This activity was held for students who are about to graduate. The activity was held online on July 26, 2020. The total number of participants were 75. The IEEE members were 45.
Major Events (International, National)

The following international conferences were held during the year,

i) 2nd International Conference on Information Science & Communication Technology (ICISCT) was held on February 8-9, 2020 with the collaboration of Karachi University. The conference was held online. The number of participants were 300. Roughly 100 were IEEE members.

ii) The International Conference in Emerging Trends in Smart Technologies (ICETST) was held successfully (online) at FAST National University of Computer & Emerging Sciences (NUCES). Roughly 200 attended the Conference. A large number of IEEE members were present.

Major Chapter Activities

Karachi Section has three Chapters: Computer Chapter (C16), Communication Chapter (COM19), and Power & Energy Chapter (PE31). The activities of these Chapters are given in the following paragraph:

i) Computer Chapter (C16): Following activities were held
   i. International Conference ICISCT-2020 as given above.
   ii. DIGICON2020 held on February 10, 2020. The venue was Mehran University of Engineering and Technology. This was a physical event. The event attendance was 95. Out of this 45 were IEEE members.
   iii. A Seminar on IoT and its Applications in day-to-day life was held on February 11, 2020. The venue was Department of Computer Science, Karachi University. This was an online activity. The participation was 55. Out of this 45 were IEEE members.
   iv. A Hands-on Workshop was organized at Indus University on February 12, 2020. This was a physical activity. There were 70 participants, 40 were IEEE members.
   v. A Workshop on Application of Computational Technology in Energy Industry was held at Karachi University on February 27, 2020. This was an online activity with 50 attendees. Out of this 45 were IEEE members.
   vi. A Seminar on Natural Language Processing in Artificial Intelligence was held on March 8, 2020 at Karachi University. This was a physical event. Total attendance was 50. Out of this 45 were IEEE members.
   vii. An International Conference based on Information Security and Communication Technology was held at Karachi University on March 9, 2020. This was a physical event. The number of participants were 200, and the IEEE members were 100.
   viii. A Walk for Food was held at Karachi University on May 14, 2020. This was a Humanitarian activity.
   ix. A Seminar on Modern Energy Trading Practices: An overview of different energy market algorithms and market structures was held at DHA Suffa University on June 27, 2020. This was a physical event with 110 attendees. Out of this 20 were IEEE members
   x. A seminar on “Amazing Tricks and Tips” CV, Resume, Research proposal and cover letter was organized by Baluchistan University of Information Technology, Engineering and Management (BUITEM) on June 27, 2020. This was a virtual event with 45 participants. Out of this 35 were IEEE members.
   xi. An online Webinar on Learn and Live with Artificial Intelligence was organized by Mehran University of Engineering and Technology on June 28, 2020. There were 45 attendees with 15 IEEE members.
   xii. A Workshop on Ethical Hacking was organized by Karachi University on October 8, 2020. This was a physical event with 40 participants. The IEEE members were 15.
   xiii. A Workshop on Data Science, AI and Internet of Things was organized by Computer Science Department of Karachi University on October 16, 2020. This was a physical event with 70 attendees. Out of these 30 were IEEE members.
   xiv. A Workshop on Big Data and its Applications was organized by Qaid e Awam University, Nawabshah, Pakistan on October 24, 2020. This was a physical event with 70 attendees. Out of this 10 were IEEE members.
   xv. A one-day Seminar on Future Technologies was held at Computer Science Department of Karachi University on October 31, 2020. This was a physical event with 125 participants. Out of this 25 were IEEE members.

ii) Communication Chapter (COM19)
i. A Seminar on “Scope of Communication Technology for Youth” was organized at Mehran University of Engineering and Technology on January 30, 2020. This was a physical event with 50 participants. Out of this 5 were IEEE members.

ii. A Seminar on “Realizing Innovations in Digital Image Processing for Healthcare Applications” was arranged on February 26, 2020 at Quaid e Awan University, Nawabshah, Pakistan. This was a physical event with 54 participants. Out of this 4 were IEEE members.

iii. A Seminar on “Photonics and Optical Technologies” was organized at Indus University, Karachi on May 2, 2020. This was a physical event with 130 attendees. Out of this 5 were IEEE members.

iv. A Seminar on “World Telecommunication and Information Society Day (WTISD)” was held Mehran University of Engineering and Technology on May 17, 2020. This was a physical event with 60 participants. Out of this 22 were IEEE members.

v. A Workshop on “Accrediting online Learning System of Higher Education Institutes under Lockdown Situation” was held at Khairpur campus of Mehran University of Engineering and Technology on July 4, 2020. The event was online with 67 participants. The IEEE members were 5.

vi. A Seminar on “Empowering the Fourth Industrial Revolution with Future Internet & Communication” was held on August 13, 2020. This was an online activity with 67 participants. Out of these 12 were IEEE members.

vii. A Seminar on Scholarship and Research Opportunities for Graduating Engineers in Telecommunication Engineering was held on August 23, 2020. The was a physical event with 85 participants. Out of these 35 were IEEE members.

viii. A Seminar on “Digital Transformation: Its leverage and Impact on communication” was held on September 30, 2020. This was a physical event with 42 attendees. Out of this 12 were IEEE members.

ix. The 4th IEEE Communication Society Karachi Section was held on October 10, 2020 at NED University of Engineering and Technology. This was a physical event with 155 participants. Out of these 20 were IEEE members.

iii) Power & Energy Chapter (PE31)
   i. A one-day Seminar on Power Isolation was held on February 19, 2020. This was a virtual event with 50 participants. Out of this 40 were IEEE members.
   ii. A Seminar on “Flash Electric Safety Requirement” was held on May 14, 2020. This was a virtual event with 20 attendees, out of which 20 were IEEE members.
   iii. A Seminar on Air Insulated Medium Voltage Switchgear was organized on July 2, 2020. The event was attended by 39 participants, out of which 25 were IEEE members.
   iv. A Webinar on “Air Insulated MV Switchgear Part 2-Advanced Details” was held on September 23, 2020. The event was held online with 25 participants including 10 IEEE members.

• Major Student and Affinity Group Activities
  Karachi Section comprises of 27 Student Branches, and 3 Affinity Groups (YP, WIE, and LM). Details are given in B.5.

• Awards
  The following awards were announced.
   i) Outgoing Volunteer’s awards 2020
      i. Engr. Tahir Saleem, Chair, PES
      ii. Dr. Bushra Naeem, Chair WIE
      iii. Mr. Rafay Shaikh, SSR
   ii) Conference Appreciation Awards 2020
      i. iCoMET, IBA-Sukkur, January 2020 (Dr. Ahmad Waqas)
      ii. ICISCT, Karachi University, February 2020 (Dr. Sadiq Ali Khan)
      iii. ICETST, NUCES, Karachi, March 2020, (Dr. Atif Tahir)
   iii) Shields and Certificates for Speakers of POCO
      i. Dr. B. S. Chowdhry
      ii. Dr. M. Shahab Siddiqi
      iii. Engr. Atif Fareed
iv. Engr. Moiz Rahman Memon  
v. Dr. Asim ur Rehman Khan  
vi. Dr. Tariq R. Soomro  
vii. Dr. Sadiq Ali Khan  
viii. Dr. S. N. Singh  

iv) Award for organizing activities during Covid-19  
i. Dr. Hyder Abbas Mousvi, Chair, ComSoc  
ii. Engr. Tahir Saleem, Chair, PES  
iii. Engr. Atif Fareed, Chair, SAC  
iv. Dr. Bushra Naeem, Chair WIE  
v. Dr. Sadiq Ali Khan, Chair EA  
vi. Dr. Bhagwan Das Lohana, Chair CS  
vii. Dr. M. Shahab Siddiqui, Chair MD  

v) Best Student Branch Award  
Best Student Branch awards goes to Sir Syed UET. A shield is awarded to them for organizing 73 events during the year.  
vii) Student Branch & Branch Counselor Appreciation Award goes to  
i. SSUET – Tauseef Mubeen  
ii. PAF KIET - Dr. Sameer Qazi  
iii. SZABIST HYD – Naem Akbar Channar  

vi) Best Student Branch Chair Award 2020  
Best Student Branch Chair Award goes to Engr. Abdul Rehman Jabri, Chair, PAF KIET SB  

vii) Student Branch & Branch Counselor Appreciation Award goes to  
i. SSUET – Tauseef Mubeen  
ii. PAF KIET - Dr. Sameer Qazi  

vi) Best Student Branch Chair Award 2020  
Best Student Branch Chair Award goes to Engr. Abdul Rehman Jabri, Chair, PAF KIET SB  

vii) Student Branch & Branch Counselor Appreciation Award goes to  
i. SSUET – Tauseef Mubeen  
ii. PAF KIET - Dr. Sameer Qazi  

viii) SAC Team Members Award 2020 goes to  
i. M. Rafay Shaikh (SSR)  
ii. Ms.Fabeha Raheel (Project Coordinator)  

viii) SAC Team Members Award 2020 goes to  
i. M. Rafay Shaikh (SSR)  
ii. Ms.Fabeha Raheel (Project Coordinator)  

ix) Guest of Honor Award  
The Guest of Honor Award goes to Engr. Mukesh Kumar, Provincial Head, MEDA, Sindh  

A.2 Financial Report  
- Summary (as per submitted on NetSuite)  

Title: CBRS ANNUAL REPORT FOR IEEE Karachi Section  
For THE CALENDAR YEAR OF 2020  
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Currency: USD  
Opening Balance: 40534.8  
Closing Balance: 56677.34
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- Any other financial activities
  No.

**PART B. - ORGANIZATIONAL ACTIVITIES**

**B.1 Membership Development Activities**

- Total number of active members in the past 3 years.

  Following is the statistics for the last 3 years. This is he combined numbers including all categories

  i) December 2018: 724
  ii) December 2019: 534
  iii) December 2020: 391
  iv) January 2021: 410

- Summary and evidence of work done to improve the value of membership, which leads to retention and growth of members.

  At the start of year 2020, for the first time in IEEE Karachi Section we created a 8-membered Membership Development Committee. Each of the IEEE Professional entity of the Section was represented in the committee headed by Prof. Dr. Muhammad Shahab Siddiqui. During the year, we suffered a great loss in IEEE Student Membership due to Pandemic and University Lockdowns. Though from June 2020, we switched to webinars and activated our IEEE Student Branches for the activities and assigned each of our MD Committee member, task to give a 5-minutes IEEE MD Presentation for member benefits. Also, in the meantime we prepared a proposal for R10 IBS Proposal Call and after the Section ExCom Approval we submitted it to R10 and get 2nd Rank and USD 500 as a Grant to implement this IBS Proposal in 2021 cycle. In September, I represented IEEE Karachi Section in IEEE MD Webcast and highlighted the ups and down of Section. In October, we attended a Series of MD Training. In December, with the announcement of FUTURE50 offer for IEEE Student Members for joining and renewing get an impact and the membership is nearly doubled from 75 to 144 or so. On February 10, 2021 Section Membership is 429 and it has 170 Students, 158 members, 60 GSMs, 32 Senior Members, 5 Associates, 3 Affiliates and 1 Life Member.

**B.2 Chapter Activities**

- Total number of Chapters in the Section

  Karachi Section has three Chapters as given below

  i) Computer
  ii) Communication
  iii) Power and Energy

- Number of Chapters in the current year

  The above number of Chapters shall continue. It is expected that one or two more chapters shall be initiated in the current year (2021).

- Number of active Chapters (Chapters who have reported required number of meetings during the year)

  All three Chapters are active and meet the minimum requirements of activities.
Summary of Chapter activities (Chapter wise with attachment table/information)

Due to Covid-19, the Chapters performed limited number of physical activities, and several online activities. There were sizable number of participants in both type of activities. A large number of IEEE members also attended these activities. Details of Chapter Activities have been given in A.1 above.

B.3 Professional and Continuing Education Activities

Summary of continuing Educational activities including conferences, technical activities, training courses, and distinguished lecture programs with attachment table / information.

The professional and continued education activities are maintained by YP for fresh graduates, by WIE for women engineers, and by various seminar, conferences under the three chapters (Computer, Communications, and Power & Energy) for professional. The details of these activities are given in other sections.

B.4 Students Activities

- Total number of Student Branches in the Section: 27
- Number of Student Branches formed in the current year: Nil
- Section level student activities (student congress, paper and other contests, awards, etc.):
  i) One-day activity VoLT (Volunteer Leadership Training) on July 25, 2020
  ii) One-day activity SPAA (Student Professional Awareness Activity) on July 26, 2020.
- Number of active Student Branches (Student Branches who have reported required number of meetings during the year): 12
- Summary of Student Branch activities (Student Branch wise with attachment table/information)

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<td>Your Career Path to Cloud Computing</td>
<td>8/22/2020</td>
<td>U. of Karachi</td>
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<td>Robust adaptive control design for heart rate regulation during rhythmic exercises</td>
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<td>Technical Webinar: The realm of light-emitting diodes</td>
<td>7/9/2020</td>
<td>KIET</td>
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<tr>
<td>Webinar on A Brief Introduction to Classification and its Industry Applications</td>
<td>7/9/2020</td>
<td>IoBM</td>
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<tr>
<td>Webinar: Role and Use Cases of Internet of Things during COVID-19</td>
<td>7/8/2020</td>
<td>KIET</td>
<td>42</td>
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<tr>
<td>Online Workshop: Mastering Arduino</td>
<td>6/21/2020</td>
<td>KIET</td>
<td>102</td>
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<tr>
<td>Webinar: Life Beyond Graduation</td>
<td>6/20/2020</td>
<td>KIET</td>
<td>80</td>
<td>20</td>
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<tr>
<td>Webinar: Introduction to Computer Vision</td>
<td>6/19/2020</td>
<td>KIET</td>
<td>105</td>
<td>15</td>
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<tr>
<td>Lets Emerge with IEEE</td>
<td>6/14/2020</td>
<td>Sir Syed UET</td>
<td>26</td>
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<tr>
<td>Webinar: How to Introduce Yourself to the World</td>
<td>6/8/2020</td>
<td>KIET</td>
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<tr>
<td>IEEE JUW Student Branch Virtual Admin Meeting</td>
<td>6/8/2020</td>
<td>Jinnah U. for Women</td>
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<tr>
<td>Second Virtual ExCom Meeting</td>
<td>5/31/2020</td>
<td>KIET</td>
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<td>6</td>
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<tr>
<td>First Virtual ExCom Meeting</td>
<td>5/20/2020</td>
<td>KIET</td>
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<tr>
<td>Automation with PLC and HMI</td>
<td>5/19/2020</td>
<td>Dawood UET</td>
<td>923</td>
<td>17</td>
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<td>Webinar: Automation with PLC and HMI</td>
<td>5/19/2020</td>
<td>KIET</td>
<td>32</td>
<td>5</td>
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<tr>
<td>Industrial Control and switching Devices and Applications</td>
<td>5/17/2020</td>
<td>Dawood UET</td>
<td>67</td>
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<td>Connecting dots: IEEE and your fields</td>
<td>5/14/2020</td>
<td>Mehran UET</td>
<td>70</td>
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<tr>
<td>IEEE MUET Student Branch Get Together</td>
<td>5/13/2020</td>
<td>Mehran UET</td>
<td>60</td>
<td>30</td>
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<tr>
<td>Certified Webinar on Python Programming:</td>
<td>5/11/2020</td>
<td>Dawood UET</td>
<td>38</td>
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<tr>
<td>Energy Management System</td>
<td>5/5/2020</td>
<td>Dawood UET</td>
<td>76</td>
<td>18</td>
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<td>Campus to Corporate</td>
<td>5/2/2020</td>
<td>Dawood UET</td>
<td>30</td>
<td>16</td>
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<td>Exploring IEEE Student Membership Benefits</td>
<td>4/27/2020</td>
<td>Dawood UET</td>
<td>755</td>
<td>17</td>
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<tr>
<td>Time Crunch: A Webinar on How to Study Effectively Online</td>
<td>4/19/2020</td>
<td>KIET</td>
<td>35</td>
<td>5</td>
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<tr>
<td>Discovering IEEE_WIE and Women Career In STEM.</td>
<td>4/18/2020</td>
<td>Sir Syed UET</td>
<td>40</td>
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<tr>
<td>Interviews for induction</td>
<td>2/18/2020</td>
<td>NUCES-Karachi</td>
<td>n/a</td>
<td>n/a</td>
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<tr>
<td>Air Show and Aero Build &amp; Fly Competition</td>
<td>2/16/2020</td>
<td>KIET</td>
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</tr>
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</table>
### B.5 Affinity Group Activities

#### Young Professional (YP)

<table>
<thead>
<tr>
<th>Event Title</th>
<th>Event Date</th>
<th>Number of Attendance</th>
<th>IEEE Member Attendees</th>
</tr>
</thead>
<tbody>
<tr>
<td>Webinar: Research and Innovation: Key factors to lead the smart world</td>
<td>10/16/2020</td>
<td>105</td>
<td>45</td>
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<tr>
<td>Webinar: Life Beyond Graduation</td>
<td>6/20/2020</td>
<td>60</td>
<td>20</td>
</tr>
<tr>
<td>Humanitarian Activities: Experiences and Opportunities toward ICT4SDG</td>
<td>6/11/2020</td>
<td>38</td>
<td>30</td>
</tr>
<tr>
<td>Online Webinar: Research Project and Grant Proposals</td>
<td>6/4/2020</td>
<td>45</td>
<td>40</td>
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<tr>
<td>ExCom Meeting IEEE YP Karachi</td>
<td>3/29/2020</td>
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<td>ExCom Meeting IEEE YP Karachi</td>
<td>1/25/2020</td>
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#### Women In Engineering (WIE)

<table>
<thead>
<tr>
<th>Event Title</th>
<th>Event Date</th>
<th>Number of Attendance</th>
<th>IEEE Member Attendees</th>
</tr>
</thead>
<tbody>
<tr>
<td>Why is Cyber Security important for Industrial IOT?</td>
<td>12/5/2020</td>
<td>101</td>
<td>25</td>
</tr>
<tr>
<td>Promoting anti-harassment law for women in higher education institutions</td>
<td>11/20/2020</td>
<td>50</td>
<td>10</td>
</tr>
<tr>
<td>Webinar: Research and Innovation: Key factors to lead the smart world</td>
<td>10/16/2020</td>
<td>105</td>
<td>45</td>
</tr>
<tr>
<td>Opportunities for Women in Tech</td>
<td>10/16/2020</td>
<td>93</td>
<td>23</td>
</tr>
<tr>
<td>IEEE Quetta Subsection Inauguration Ceremony</td>
<td>7/14/2020</td>
<td>40</td>
<td>15</td>
</tr>
<tr>
<td>DevOps and Micro services Architecture â€“ Better Together</td>
<td>7/2/2020</td>
<td>68</td>
<td>12</td>
</tr>
<tr>
<td>Learn &amp; Live with Artificial Intelligence</td>
<td>6/28/2020</td>
<td>55</td>
<td>40</td>
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<tr>
<td>WIE Volunteer Training</td>
<td>6/28/2020</td>
<td>83</td>
<td>33</td>
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<tr>
<td>Amazing Tricks and Tips: CV, Resume, Research proposal and Cover Letter</td>
<td>6/27/2020</td>
<td>89</td>
<td>70</td>
</tr>
<tr>
<td>Learn and live with Artificial Intelligence</td>
<td>6/26/2020</td>
<td>125</td>
<td>43</td>
</tr>
<tr>
<td>Amazing Tips &amp; Tricks: Drafting Impactful Cover Letter, CV and Research Proposal for Students and Professionals</td>
<td>6/26/2020</td>
<td>60</td>
<td>15</td>
</tr>
<tr>
<td>WIE AG meeting</td>
<td>6/26/2020</td>
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<td>n/a</td>
</tr>
</tbody>
</table>
Celebrate International Women in Engineering day with Female Scholars and Researchers Abroad!  
6/23/2020  
36  
25

IEEE WIE Affinity Group Karachi Section Ex-Com Meeting  
6/7/2020  
5  
5
Discover IEEE-WIE with Karachi Section, WIE AG  
4/18/2020  
6  
6
ExCom Meeting  
3/5/2020  
4  
4
Formation of IEEE Quetta Subsection  
2/5/2020  
n/a  
n/a

- Life Member (LM)
Karachi Section has only one LM member. No event was planned during the year.

B.6 Awards & Recognition Activities

- Award constituted by the Section
The following awards have been constituted by the Section
i) Outgoing Volunteer’s awards 2020
ii) Conference Appreciation Awards 2020
iii) Shields and Certificates for Speakers of POCO
iv) Award for organizing activities during Covid-19
v) Best Student Branch Award
vi) Best Student Branch Chair Award 2020
vii) Student Branch & Branch Counselor Appreciation Award
viii) SAC Team Members Award 2020
ix) Guest of Honor Award

- Please list all Awards and Recognitions received by the Section, and members in the Section, from R 10 and IEEE HQ during the year,
  i) Dr. Tariq R. Soomro was nominated Distinguished Speaker in Computer Science.
  ii) Engr. Parkash Lohana, SIGHT Chair secured HAC/SIGHT Covid-19 grant of USD 4,800
  iii) A member of IEEE ExCom of Karachi Section, Engr. Parkash Lohana has been appointed Chair R10 Professional Activities Committee (PAC) for 2021-2022.

B.7 Communication Activities (Newsletter, Home Page, E-mail etc.)

- Newsletter (name and number of issues in the year)

- Home Page of the Section (give the URL and how often it is updated)
The Section maintains a website: http://www.ieeekhi.com

- Other means of contacts with Section members including social media
Several ExCom members are also members of other professional bodies. They promote IEEE during the activities organized by these bodies. Besides, several members maintain their personal accounts in Facebook, LinkedIn, Tweeter, and other social media platforms. They promote IEEE through them.

B.8 Industry Relations

- Membership growth and retention
Membership growth and retention is the biggest challenge to our Section. This is especially critical due to retention of Student members. Due to Covid-19, most of the universities were forced to switch over to online teaching during most of 2020. This resulted in very few physical activities. This will affect membership in universities. The number of jobs has also reduced due to Covid-19. As a result, retention of the professional membership would need extra effort during 2021.

- Activities for/with industrial members
The three chapters of Karachi Section (Computer, Communication, Power & Energy) hold several technical seminars during 2020. The Computer chapter holds an annual conference. A large number of
professional attended these events. A sizable number of professional engineers attend these events. IEEE introduction is a regular activity during these events. As a result, they are appraised by the achievements, and the opportunities associated with IEEE membership

B.9 Humanitarian Technology Activities

- Humanitarian Technology related activities supported by the Section including collaboration with other OUs.
  Engr. Parkash Lohana, SIGHT Chair secured HAC/SIGHT Covid-19 grant of USD 4,800

- SIGHT Activities
  Engr. Parkash Lohana, SIGHT Chair secured HAC/SIGHT Covid-19 grant of USD 4,800

B.10 Community Activities

- IEEE Social activities (Family day, IEEE day, Engineers Week)"
  i) Engineers Week was observed during July 12-18, 2020
  ii) IEEE day was observed on October 16, 2020 with a Seminar on “Technology Awareness Program (TAP). This was attended by 50 persons. Out of these 38 were IEEE members.
  iii) IEEE day was observed with a Seminar by WIE of Karachi Section, and WIE of Quetta Subsection. The title of the seminar was “Opportunities for Women in Tech – Career and Education” observed on 16 October, 2020.

PART C - OTHERS

C.1 Special Events

- Please briefly describe the importance of special events and the outcomes achieved
  Special events are important to address issues that are normally overlooked. These may include training of personnel to an unusual situation like disaster, heath-related issues, etc. Karachi Section helped deploying a Solar based water pumping station at the remote location in interior Sindh. This helped the villagers to extract water from ground during the long shutdown time of regular electricity.

- Funding secured from the IEE and external sources including sponsorships
  The following funding was received from R10, IEEE
  i) USD 250/- received for holding R10 POCO (Panel of Conference Organizers)
  ii) USD 3000/- received for incentive
  iii) USD 4,800/- received for Humanitarian activity
  iv) USD 300/- received for promoting IEEE Field of Interest in local languages (Urdu and Sindhi)

C.2 Relationship with National and International Societies and Non-Government Organizations (NGO)

- Nature of relationship and details of any formal agreement signed
  Karachi Section invited the Regional Head of SMEDA (Small and Medium Enterprise Development Authority), under the Government of Sindh. The understanding of a joint collaboration has reached during the year. A formal agreement is expected to be signed during 2021.

- Details of joint activities
  As per planned agreement, SMEDA will provide proposals for viable solutions, and Karachi Section will provide technical support through Seminars, and through a panel of consultants.

- Benefit to IEEE members (for example discounts, access to technical information etc.)
  The above activity will help in increased IEEE membership from industry, access to various industrial solutions, and increase the numbers of speakers in the desired area.

- Benefit to Section (for example help in membership development, venue facilities, cost saving etc.)
This will help increase IEEE membership through linkage with professionals in industry. This will also help in creating venues at multiple locations in Karachi, and various cities of Sindh and Baluchistan.

C3. Collaboration with other IEEE Sections

- Support extended to neighboring Sections
  i) Karachi Section invites the Chair of Lahore and Islamabad Sections in all major event. The cost of stay, and the air travel is borne by Karachi Section.
  ii) Karachi Section shares speakers residing in areas of Karachi Section to other Sections. This has been an active source due to online Conferences.

- Joint activities with any other Section

  There are three IEEE Sections in Pakistan. These are Karachi Section, Lahore Section, and Islamabad Section. The following three technical activities are rotated among the three sections,

  i) INMIC (International Multi-Topic Conference)
  ii) POCO (Panel of Conference Organizers)
  iii) Student Congress

C4 Support extended to Sub-sections & Society Chapters within the Section

- Support extended for organizing technical, educational and professional activities

  Quetta Subsection was inaugurated during 2020. Karachi Section guided the office bearers of Quetta Subsection for holding AGM, ExCom meetings, etc. Several technical seminars were jointly conducted by Karachi Section and Quetta Subsection during the last year.

- Joint activities for membership development

  Quetta Subsection has nominated one person for membership development (MD). The Chair, MD at Quetta subsection is a member of the MD team of Karachi Section.

- Support extended for the formation of a Sub-section or transition of a Sub-section into a full Section

  Quetta Subsection was inaugurated in 2020. It is hoped that the membership would be increased to 100+ members during the next 3 years. This will help them to be eligible for full Section.

C5 Best Practices of your Section (which you would like to share with other Sections for the benefits of members)

The Sections comprises of highly dedicated, sincere, and efficient volunteers. This has resulted in holding consistent progress in term of technical activities, financially strong situation. R10 has acknowledged these achievements through various awards.

C6 Problems anticipated and suggestions for solutions, if any

The following issues are anticipated with possible solutions,

  i) The Pandemic Covid-19 continue during substantial time of the year. This may result in Universities going for online teaching. This will also result in reduced number of technical / administrative meetings. This may also hinder the holding technical Conferences.

  Solution: Focus of online activities.

  ii) Difficulty in sustaining IEEE members and may result in reduced membership.

  Solution: Keep more active communication through email, webinars, virtual meetings.
Following are the future plans,
i) A formal agreement with SMEDA (Small and Medium Enterprise Development Authority).
ii) Establish Robotic and Automation Chapter in Karachi Section.
iii) Establish Student Branches at Mohammad Ali Jinnah University, Karachi, and Newport Institute of Communication and Economics (NICE), Karachi, ILMA University, Karachi, Indus University, and Sindh Institute of Management Technology (SIMT).
iv) Computer Science Department of Karachi University has a plan of holding a Conference on March 4, 2021 at Karachi University.

D.3 Any innovative ideas to make IEEE more creative and value added for sustaining the membership retention and recruitment goals.

Following are the plans for the year 2021
i) Build a learning system where presentations of seminars, webinars, etc. are stored. These will be available for all members of IEEE Karachi Section.
ii) Prepare a list of speakers in IEEE Karachi Section. The topics shall include technical, as well as non-technical areas like stress handling, time management, personality grooming, leadership quality development, etc.
iii) Our section contributed towards Project REACHING LOCALS which aimed to encourage and support IEEE OU’s in Region 10 to reach out to the community using local languages, with activities on subjects related to IEEE’s Field of Interest. We recorded several video lectures in local languages (Urdu and Sindhi). IEEE region10 appreciated our efforts and the recognition of our contribution. They also provided the reward funding of USD 300/-. 


Due to Covid-19, very little physical activities were organized at the universities in 2020. As a result, a large number of student member did not renew their membership. It is planned that students will be apprised with the benefits of IEEE membership and encourage them to renew their memberships.

Glossary:

HIET: Hamdard Institute of Engineering & Technology
IoBM: Institute of Business Management
KIET: Karachi Institute of Economics & Technology
NUCES: National University of Computer & Emerging Sciences
UET: University of Engineering & Technology