Thailand Section Report 2019

PART A - SECTION SUMMARY

A.1 Executive Summary – (Please follow the format given below)

- Section Executive Committee Member List
  Chair: Viboon Rerksirathai
  Vice Chair: Kirapat Jiamset
  Secretary: Amorn Jiraseree-amornkun
  Treasurer: Somying Thainimit

- Section Highlights
  - Hosting the IEEE PES GTD 2019
  - Hosting the IEEE APCCAS 2019
  - Preparing the IEEE Distinguished Lecturer Program Thailand (DLPth)

- Major Events (International, National)
  - March 2 – 3, Dr. Amorn Jiraseree-amornkun (Secretary) and Dr. Somying Thainimit (Treasurer) attended the IEEE R10 Annual General Meeting 2019, held in Melbourne, Australia
  - May 16, Celebration of the International Day of Light (IDL) 2019 Thailand, held on Sakon Nakhon, Thailand

- Major Chapter Activities
  - Technical seminars
  - Conferences
  - Workshops

- Major Student and Affinity Group Activities
  - Technical seminars
  - Conferences
  - Workshops

- Awards
  - IEEE PES Thailand Chapter won IEEE PES High Performing Chapter Program (HPCP)

A.2 Financial Report – (Please follow the format given below)

- Summary (as per submitted on NetSuite)

  Income Statement
  
<table>
<thead>
<tr>
<th>FINANCIAL ROW</th>
<th>AMOUNT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ordinary Income/Expense</td>
<td></td>
</tr>
<tr>
<td>Income</td>
<td></td>
</tr>
<tr>
<td>1.10 - Received from Individuals</td>
<td>$8.85</td>
</tr>
<tr>
<td>1.30 - Received from Foundations</td>
<td>$14,492.37</td>
</tr>
<tr>
<td>2.60 - Educational Activities</td>
<td>$3,046.92</td>
</tr>
<tr>
<td>2.70 - Professional Activities</td>
<td>$26,616.10</td>
</tr>
<tr>
<td>3.10 - Rebate from IEEE HQ</td>
<td>$7,754.15</td>
</tr>
<tr>
<td>3.34 - IEEE HQ &amp; Societies</td>
<td>$10,622.47</td>
</tr>
<tr>
<td>3.40 - IEEE CB Account Interest</td>
<td>$140.38</td>
</tr>
<tr>
<td>3.90 - Reserve Allocation Income</td>
<td>$1,400.83</td>
</tr>
<tr>
<td><strong>Total - Income</strong></td>
<td><strong>$64,082.07</strong></td>
</tr>
<tr>
<td>Gross Profit</td>
<td><strong>$64,082.07</strong></td>
</tr>
<tr>
<td>Expense</td>
<td></td>
</tr>
<tr>
<td>4.50 - Conference Expenses</td>
<td>$26,616.10</td>
</tr>
</tbody>
</table>
### Total Expense

<table>
<thead>
<tr>
<th>Item</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.90 - Other Program Expenses</td>
<td>$44,055.46</td>
</tr>
<tr>
<td>Total Expense</td>
<td>$70,671.56</td>
</tr>
<tr>
<td>Net Ordinary Income</td>
<td>($6,589.49)</td>
</tr>
<tr>
<td>Net Income</td>
<td>($6,589.49)</td>
</tr>
</tbody>
</table>

- Any other financial activities

## PART B - ORGANIZATIONAL ACTIVITIES

### B.1 Membership Development Activities

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

<table>
<thead>
<tr>
<th>Year</th>
<th>F</th>
<th>LS</th>
<th>SM</th>
<th>LM</th>
<th>M</th>
<th>AF</th>
<th>A</th>
<th>GS</th>
<th>S</th>
<th>TOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>2019</td>
<td>1</td>
<td>6</td>
<td>59</td>
<td>13</td>
<td>331</td>
<td>11</td>
<td>12</td>
<td>53</td>
<td>35</td>
<td>521</td>
</tr>
<tr>
<td>2018</td>
<td>1</td>
<td>7</td>
<td>56</td>
<td>13</td>
<td>498</td>
<td>14</td>
<td>21</td>
<td>117</td>
<td>103</td>
<td>830</td>
</tr>
<tr>
<td>2017</td>
<td>1</td>
<td>5</td>
<td>49</td>
<td>15</td>
<td>486</td>
<td>15</td>
<td>16</td>
<td>119</td>
<td>92</td>
<td>783</td>
</tr>
</tbody>
</table>

- Summary and evidence of work done to improve the value of membership, which leads to retention and growth of members
  - Arrange technical seminars, workshops, and meetings
  - Provide subsidy for Student Membership to selected students
  - Encourage university to found student branch chapters

### B.2 Chapter Activities

- Total number of Chapters in the Section
  - 15 Chapters:
    1. Signal Processing (SP01)
    2. Broadcast Technology (BT02)
    3. Joint Antennas&Propagation/ Electron Devices /Microwave Theory & Techniques (AP03/ED15/MTT17)
    4. Circuits & Systems (CAS04)
    5. Computational Intelligence (CIS11)
    6. Joint Industrial Electronics/ Industry Applications/ Power Electronics (IE13/IA34/PEL35)
    7. Engineering in Medicine & Biology (EMB18)
    8. Communications (COM19)
    9. Control Systems (CS23)
    10. Robotics and Automation (RA24)
    11. Education (E25)
    12. Power & Energy (PE-31)
    13. Magnetic (MAG33)
    14. Photonics (PHOT36)
    15. Solid-State Circuits (SSC37)

- Number of Chapters formed in the current year
  - Magnetic (MAG33)

- Number of active Chapters (Chapters who have reported required number of meetings during the year)
  - 10 Chapters (SP01, BT02, CAS04, IE13/IA34/PEL35, EMB18, COM19, CS23, PE31, MAG33, SSC37)

- Summary of Chapter activities (Chapter wise with attachment table/information)
  - Section ExCom Monthly meeting
  - Total number of events such as technical meetings held by Chapters in Thailand is over 80.

### 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

- IEEE SPS Industry Distinguished Lecture at IEEE ICCE Asia 2019: History of Personal Media Terminals - From Walkman to Apple Watch, 12 Jun 2019
- IEEE PES DLP: Increasing the PV Hosting Capacity of Distribution Networks - The Role of Smart Inverter and Storage & Intelligent Control of Electric Vehicles - Lessons Learned from the Largest UK EV Trial, 15 Oct 2019
- IEEE SSCS Distinguished Lecturer Program: Analog IP - Pipe-line or Pipe-dream?, 15 Nov 2019
- IEEE SSCS Distinguished Lecturer Program: Time-based Circuits for High-Performance ADC, 15 Nov 2019

B.4 Students Activities

- Total number of Student Branches in the Section
  - 10
- Number of Student Branches formed in the current year
  - 0
- Section level student activities (student congress, paper and other contests, awards etc)
  - 2019 IC Design Challenge, 23 Jul 2019
  - Workshop: ROS for mobile robot applications, 14 Jun 2019
- Number of active Student Branches (Student Branches who have reported required number of meetings during the year)
  - N/A
- Summary of Student Branch activities (Student Branch wise with attachment table/information)
  - N/A

B.5 Affinity Group Activities

- Young Professional (YP)
  - 3rd HRD for IC Design Ecosystem, 20 Jul 2019
  - 2019 IEEE SSCS/CAS/YP Thailand Seminar and Student Poster Presentations, 22 Jul 2019
  - 2019 IC Design Challenge, 23 Jul 2019
  - 3rd HRD for IC Process and Fabrication, 24 Jul 2019
  - 3rd HRD for IC Packaging, 26 Jul 2019
  - YP-CAS Seminar: How to Turn the Chosen Career Path into a Success, 12 Nov 2019
- Women In Engineering (WIE)
  - IEEE WIE Thailand Technical Seminar, 25 Apr. 2019
  - WiCAS (Women in Circuits and Systems) Session at IEEE APCCAS 2019, 12 Nov 2019
- Life Member (LM)
  - LMAG Seminar: Aged Society in Digital Thailand 4.0 Era, 26 Nov 2019

B.6 Awards & Recognition Activities

- Award constituted by the Section
  - N/A
- Please list all Awards and Recognitions received by the Section, and members in the Section, from R 10 and IEEE HQ during the year
  - N/A

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

- Newsletter (name and number of issues in the year)
  - N/A
- Home Page of the Section (give the URL and how often it is updated)
  - http://www.ieee-thailand.org/, updated monthly
- Other means of contacts with Section members including social media
B.8 Industry Relations

- Membership growth and retention
  - N/A
- Activities for/with industrial members
  - Thai Microelectronics Seminar 2019, 14 Mar 2019

B.9 Humanitarian Technology Activities

- Humanitarian Technology related activities supported by the Section including collaboration with other OUs.
  - N/A
- SIGHT Activities
  - N/A

B.10 Community Activities

- IEEE Social activities (Family day, IEEE day, Engineers Week)"
  - N/A

PART C - OTHERS

C.1 Special Events

- Please briefly describe the importance of special events and the outcomes achieved
  - N/A
- Funding secured from the IEEE and external sources including sponsorships
  - N/A

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

- Nature of relationship and details of any formal agreement signed
  - Technical Society Agreement with the Electrical Engineering/Electronics, Computer, Telecommunications and Information Technology (ECTI) Association
- Details of joint activities
  - Conferences
  - Technical Talks
  - Workshops
- Benefit to IEEE members (for example discounts, access to technical information etc.)
  - Discounts for conference registration fee
  - Participation in technical activities
- Benefit to Section (for example help in membership development, venue facilities, cost saving etc.)
  - Attracted more membership
  - Shared facilities/activities

C3. Collaboration with other IEEE Sections
• Support extended to neighboring Sections
  - N/A
• Joint activities with any other Section
  - N/A

C.4 **Support extended to Sub-sections & Society Chapters within the Section**

• Support extended for organising technical, educational and professional activities
  - N/A
• Joint activities for membership development
  - N/A
• Support extended for the formation of a Sub-section or transition of a Sub-section into a full Section
  - N/A

C.5 **Best Practices of your Section (which you would like to share with other Sections for the benefits of members)**
  - N/A

C.6 **Problems anticipated and suggestions for solutions, if any**
  - N/A

**PART D - GOALS AND PLANS**

D.1 **Continuation of project/activity in progress and their implementation plans**
  - N/A

D.2 **Goals and Future Plans**
  - Attracting more members, esp. from industrial sectors, by arranging trendy and inspiring social/technical activities.
  - Promoting current members to higher membership levels.

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

D.4 **Business Plan for Sustainable Growth and Financial Stability.**
  - N/A