**2017 IEEE Singapore Section Report**

**PART A - SECTION SUMMARY**

**A.1 Executive Summary**

|  |  |
| --- | --- |
| **Position** | **Name** |
| Chairman | Sahoo Sanjib Kumar |
| Vice Chair (Awards & Recognition Chair) | Ong Ling Chuen, Michael |
| Secretary | Li Wei |
| Treasurer (Conference Chair) | Muhammad Faeyz Karim |
| Immediate Past Chairman (Awards & Recognition Chair) | Arokiaswami Alphones |
| Committee Member - eBroadcast | Ponnuthurai Nagaratnam Suganthan |
| Committee Member - Educational Activities Chair | Ma Maode |
| Committee Member - Membership Chair | Shum Ping, Perry |
| Committee Member - Membership  Co-Chair | Stefan Winkler |
| Committee Member - Student Activities Chair | Shao Xuguang, Michelle |
| Committee Member - Professional Activities Chair | Amit K Gupta |
| Committee Member - Educational Activities Co-Chair | Huang Shaoying |

2017 was another eventful and wonderful year for the IEEE Singapore Section. Altogether we, Chapters and the Section, have managed to organize 218 technical events, 32 social events and 65 administrative events as of 30 November 2017. I would like to thank all the active volunteers in Singapore for their strong support that made the various events possible. They have indeed spent a lot of time organizing and planning all the activities that happened so far in 2017.

The Section is also actively involved in the National Committee of Engineering Organizations (NCEO) so that voices of Engineers can be channelled to the national level through the Institution of Engineers, Singapore (IES). Our Section continued to strive for more sponsorships from local industries for the subsequent years of IES/IEEE Joint Medal of Excellence Award. Our Section also started collaborating with NTUC U Associates to serve the local Electrical Engineers.

Growing the membership base remains a challenge and our goal would be to strive for a sustainable increase in members by reaching out to more young students and Engineers next year. We have run a few membership promotions for attracting new student members.

1. **Elevated Fellows – 2018**

Chip Hong Chang

Nanyang Technical University

*for contributions to hardware security*

Cuntai Guan

Nanyang Technological University

*for contributions to brain-computer interfaces and applications*

Yongxin Guo

National University of Singapore

*for contributions to wideband printed antennas*

David Hsu

National University of Singapore

*for contributions to robot motion planning*

Yilong Lu

Nanyang Technological University

*for contributions to array antenna techniques in radar systems*

Mehul Motani

National University of Singapore

*for contributions to wireless communications and sensor networks*

Yew-Soon Ong

Nanyang Technological University

*for contributions to memetic computation and applications*

Tony Quek

Singapore University of Technology

*for contributions to heterogeneous and wireless networks*

Peng Wang

Nanyang Technological University

*for contributions to power system reliability and hybrid AC/DC micro-grids*

Stefan Winkler

Singapore

*for contributions to perceptual video quality measurement*

1. **TENCON 2016**

The Section has organized TENCON 2016, the annual flagship conference of the IEEE Region 10, which was held from 22 - 25 November 2016 at Marina Bay Sands. A record number of 1,540 submissions from 50 countries were received. 990 papers were accepted. The required audit for the conference finances were done and submitted to HQ for permission to close the account. The surplus from TENCON2016 was about $146k with distribution: 70% to the Singapore Section, 30% to Region 10.

IEEE Region 10 50th Anniversary was also celebrated during TENCON 2016.

1. **Sections Congress 2017**

The Sections Congress meeting was held *11 – 13 August 2017 @ Sydney, Australia. This is the first time that the meeting was held in the* Asia Pacific. There was one primary delegate and two secondary delegates from Singapore Section. The event was very useful for networking as well volunteer training. Variou IEEE tools (e,g, vTools, IEEE TV, Netsuite) were introduced. Singapore Section has formed a sub-committee to engage members more using online tools and automate some administrative processes

**A.2 Financial Report**

Our consolidated financial position continues to remain healthy. The level of reserve is not excessive as the Section comprises 32 sub-entities (30 Chapters and 2 Affinity Groups), each recognized as a full-fledged IEEE Organizational Unit in terms of its privilege to organize events and manage its own finance.

The Section also helped to open 17 conference bank accounts with the OCBC bank for 8 conferences in 2017 and 9 in 2018 so far.

For the IEEE Audit of the accounts ending 31 December 2016, this is the opinion given in the audit report: The overall opinion on the IEEE Singapore Section financial statements for the year ended 31 December 2016 is Satisfactory. In our professional judgment as internal auditors, sufficient and appropriate audit procedures have been conducted and evidence gathered to support the accuracy of the conclusions reached and contained in this report. The conclusions were based on the documents submitted for audit against the audit criteria. The conclusions are only applicable for the entity examined. The evidence gathered meets professional audit standards and is sufficient to provide senior management with proof of the conclusions derived from the internal audit

Our Treasurer Dr Michael Ong together with the Section Accountant, Ms Joy Leong have worked tirelessly over the past year to maintain our accounts in an efficient manner, and would like to thank them for their invaluable services.

**PART B - ORGANIZATIONAL ACTIVITIES**

**B.1 Membership Development Programs**

Below are the tables for the past 3 years’ membership:

**IEEE Singapore Section Membership (as at 2 Dec 2017)**

|  |  |
| --- | --- |
| **IEEE Grade Description** | **Active Members (2017)** |
| Student Members | 177 |
| Graduate Student Members | 416 |
| Associate Members | 24 |
| Members | 1595 |
| Senior Members | 421 |
| Fellow | 41 |
| Life Members | 20 |
| Life Seniors | 15 |
| Life Fellow | 4 |
| **TOTAL** | **2713** |

|  |  |
| --- | --- |
| **IEEE Grade Description** | **Active Members (2016)** |
| Student Members | 116 |
| Graduate Student Members | 516 |
| Associate Members | 21 |
| Members | 1,726 |
| Senior Members | 430 |
| Fellow | 36 |
| Life Members | 9 |
| Life Seniors | 10 |
| Life Fellow | 1 |
| **TOTAL** | **2,865** |

|  |  |
| --- | --- |
| **IEEE Grade Description** | **Active Members (2015)** |
| Student Members | 83 |
| Graduate Student Members | 512 |
| Associate Members | 40 |
| Members | 1,780 |
| Senior Members | 403 |
| Fellow | 33 |
| Life Members | 9 |
| Life Seniors | 4 |
| Life Fellow | 1 |
| **TOTAL** | **2865** |

A few membership promotion driveswere organized in 2017, with welcome gifts for new members. In November, the Section offered 100 free membership for new Student Members. The benefits for IEEE Singapore Section members include the use of the Night Safari Corporate Card which admits 1 member + 3 guests.

In 2017, a series of networking events sponsored by PIAS (Professional Professional Investment Advisory Services Pte Ltd) were organized for members.

**IEEE Fellows / Senior Members Networking Event: 4 April 2017, Tuesday**

* “Legacy Planning – Why Every IEEE Fellow & Senior Member Needs It"  
  *- Keys To Wealth Control and Distribution* - Rick Tan
* “Turning Problems Into Possibilities"  
  *- Building Resilience In Life & Work* - Apelles Poh

**IEEE Members Networking and Seminar: 2 June 2017, Friday**

* "The Road To Financial Freedom & Early Retirement"  
  *- Retirement Planning – Pitfalls and Solutions* - Apelles Poh

**IEEE Members Networking and Seminar: 26 August 2017, Saturday**

* “Work Life Harmony"- Apelles Poh

**B.2 Chapter Activities**

The Singapore Section has 30 Chapters and 2 Affinity Groups. As at 30 November 2017, 313 activities have been reported via L31 Vtool system. Activities taking place after 30 November and in December were reported subsequently after completion of the activities.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **SN** | **Section / Chapters / Affinity Groups** | **OU** | **Tech** | **Admin** | **Non-Tech** | **Total** |
| 1 | Aerospace and Electronic Systems / Geoscience and Remote Sensing Joint Chapter | AES10/GRS29 | 11 | 3 | 1 | 15 |
| 2 | Antennas & Propagation / Microwave Theory & Techniques Joint Chapter | AP03/MTT17 | 26 | 6 | 1 | 33 |
| 3 | Broadcast Technology Chapter | BT02 | 0 | 0 | 0 | 0 |
| 4 | Computer Chapter | C16 | 3 | 2 | 1 | 6 |
| 5 | Circuits & Systems Chapter | CAS04 | 11 | 4 | 3 | 18 |
| 6 | Consumer Electronics Chapter | CE08 | 0 | 0 | 0 | 0 |
| 7 | Computational Intelligence Chapter | CIS11 | 8 | 2 | 0 | 10 |
| 8 | Communications Chapter | COM19 | 7 | 2 | 0 | 9 |
| 9 | Control Systems Chapter | CS23 | 15 | 3 | 0 | 18 |
| 10 | Council on RFID | RFID741 | 7 | 2 | 0 | 9 |
| 11 | Education Chapter | E25 | 6 | 2 | 0 | 8 |
| 12 | Engineering in Medicine & Biology Chapter | EMB18 | 3 | 2 | 1 | 6 |
| 13 | Electromagnetic Compatibility Chapter | EMC27 | 27 | 1 | 0 | 28 |
| 14 | Industry Applications / Power Electronics Joint Chapter | IA34/PEL35 | 20 | 10 | 1 | 31 |
| 15 | Industrial Electronics Chapter | IE13 | 8 | 0 | 1 | 9 |
| 16 | Intelligent Transportation Systems | ITS038 | 0 | 0 | 0 | 0 |
| 17 | Magnetics Chapter | MAG33 | 4 | 2 | 0 | 6 |
| 18 | Nanotechnology Chapter | NAN042 | 0 | 0 | 5 | 5 |
| 19 | Nuclear and Plasma Science Chapter | NPS05 | 7 | 2 | 0 | 9 |
| 20 | Oceanic Engineering Chapter | OE22 | 3 | 0 | 0 | 3 |
| 21 | Power & Energy Chapter | PE31 | 0 | 0 | 0 | 0 |
| 22 | Photonics Chapter | PHO36 | 8 | 0 | 7 | 15 |
| 23 | Reliability / Components, Packaging & Manufacturing Technology / Electron Devices Joint Chapter | R07/CPMT21/ED15 | 2 | 3 | 2 | 7 |
| 24 | Robotics & Automation Chapter | RA24 | 4 | 0 | 0 | 4 |
| 25 | Section | Section | 2 | 4 | 2 | 8 |
| 26 | Sensors Council Chapter | SEN39 | 5 | 1 | 1 | 7 |
| 27 | Systems, Man & Cybernetics Chapter | SMC28 | 0 | 0 | 0 | 0 |
| 28 | Signal Processing Chapter | SP01 | 6 | 2 | 1 | 9 |
| 29 | Solid State Circuits Chapter | SSC37 | 7 | 2 | 1 | 10 |
| 30 | Technology and Engineering Management Chapter | TM14 | 2 | 2 | 3 | 7 |
| 31 | Vehicular Technology Chapter | VT06 | 0 | 1 | 0 | 1 |
| 32 | Women in Engineering Affinity Group | WIE | 4 | 3 | 1 | 8 |
| 33 | Young Professionals | YP | 12 | 4 | 0 | 16 |
|  | **Total** |  | **218** | **65** | **32** | **313** |

**B.3 Professional and Continuing Education Activities**

We are working closely with NTUC to find out ways we can help our members from Industry. A subcommittee has been formed to enhance the partnership with NTUC in this regard.

**B.4 Students Activities**

IEEE Singapore Section has 3 active Student Branches - NUS, NTU and SUTD and 2 IEEE-HKN Branches – NUS and SUTD. These Student Branches organize regular educational workshops for the IEEE Student Members and for reaching out to non-members. They serve as platforms for connecting IEEE Members and the Student Members. They are also effective channels for IEEE to reach out to young Engineering students in the local universities under the enthusiastic direction of Dr Michelle Shao.

The Section supported up to S$1,500 to the three Student Branches in total. The Reliability/Electronics Packing/Electron Devices Joint Chapter allocated $5,000 to support student membership development activities. The NTU Student Branch obtained major sponsorship S$5000, from the Technology and Engineering Management Chapter for its signature event – iNTUition v4.0.

The committee organized the IEEE Student Branch Leadership Summit 2017 on 23 September 2017, with partial financial support from R10. Student Leaders from 3 Student Branches and the IPS Student Chapter were invited. 32 student leaders, one counselor and 4 IEEE Singapore Section Executive Committee members attended the event.

Below are the activities organized to-date by the 3 Student Branches in 2017:

IEEE NTU Student Branch

* Annual Report for AY16-17

**iNTUition v3.0, October 2016**

* NTU’s only hackathon
* Participation of around 150 students
* Sponsored by Microsoft, PayPal, Lenovo ….

**$Path to iNTUition, October 2016**

* Workshop series leading to the hackathon
* Conducted by developers from Apple, PayPal & Microsoft

**IEEE Learn, February 2017**

* Workshops on basic and advanced Python
* Overall participation of 200 students

**MATLAB Workshop, March 2017**

* + Participation of 50 students

**iNTUition v4.0, October 2017**

* NTU’s only student-run 24-hour hackathon
* Participation of around 250 students
* Sponsored by IEEE TEM Chapter, BlackRock, Google, PayPal, Lenovo…

IEEE NUS Student Branch

* Student Life Fairs
  + Annual recruitment event
  + Over 230 signups between 2016 – 2017
  + Featured a 1200 watt Tesla Coil flash demonstration as event highlight
* Undergraduate Career Fair 2017
  + Partnered ECE Undergraduate Student Council for a career & internship fair
  + Enlisted startups like Razer and Garena to attend
* IEEE-AsiaVR VR-X
  + Inaugural partnership with AsiaVR to host Expo-style convention
  + Received about 86 guests for event
* B-17 Entrepreneurship Bazaar
  + Entrepreneurship-event aimed at getting young people to venture into enterprise
  + Featured horticulturalists, drone sales, new-age bakeries, & more
* Vector Magazine 2017
* 35th Annual General Meeting
  + Club hoodies giveaway to reward members for the year’s efforts

IEEE SUTD Student Branch

* + Workshop Series
  + SUTD-MIT IEEE Meetups
  + IEEE EDS Malaysia Visit
  + IEEE Camp & Hackathon
  + SUTD What The Hack
  + Project JARVIEEES
  + Social Initiative with EDS/CPMT & Rel Chapters
  + Company Tours at Global Foundries, Google etc
  + GLOBECOM & EPTC Conference
  + Outreach Programmes – Organized The Learning Journey with the Reliability/Electronics Packaging/Electron Devices Joint Chapter for children from the Chen Su Lan Methodist Children’s Home on 24 November 2017. The half-day event was followed in the evening by dinner and a movie for the children and the Chapter Executive Committee

**B.5 Affinity Group Activities**

**IEEE WOMEN IN ENGINEERING (WIE) AFFINITY GROUP**

***Chairperson: Lu Liru***

**(A) Activities for the Year 2017:**

* **Administrative Meetings**

WIE EXCO has organized 5 administrative meetings for the year 2017.

1. 1st Meeting on 24th January, 2017: WIE members have a joint meeting with IEEE Young Professional for initial discussion of YP/WIE track panel session in conjunction with IEEE GLOBECOM 2017 to be held at Marina Bay Sands on 5 Dec 2017. Discussion includes topic of panel session, duties of volunteers and budget planning.

2. 2nd Meeting on 16th February, 2017: Apart from the update on the planning of YP/WIE track panel session at GLOBECOM 2017, members reviewed past year’s financial report, discussed the annual plan for WIE activities and possible collaboration between WIE and IES WiSER.

3. 3rd Meeting on 21st February, 2017: A follow-up meeting on YP/WIE track panel was held between YP and WIE committees. Budget plan was done and other related matters were also discussed.

4. 4th Meeting on 1st June, 2017: Meeting is mainly for the planning of IRC-SET 2017 and update on progress of YP/WIE track panel session. Members are allocated duties for IRC-SET 2017 event. How to increase membership recruitment is also discussed during this meeting.

5. 5th Meeting on 6th September, 2017: A summary of activities of the year completed was given to members. Members were informed on newly set-up WIE facebook page. Another event for membership recruitment was fixed during the meeting.

Apart from face to face meetings, executive members also communicate each other via WIE EXCO WhatsApp group to keep information up to date.

* **Technical Seminars and Talks**

WIE was actively involved/organized Technical Seminars and Inspirational talks to further promote women profile and network within Singapore and Region 10.

1. WIE actively engage women in Engineering through different channels. On 29 March 2017, a live facebook chat was arranged in collaboration with NTUC U associates and IES WiSER to discuss the topic “Why Science & Engineering should be a women’s game”.
2. On 25 April 2017, a progression forum on ‘Qualities and Smart Strategie for Women in Science & Engineering’ was held at NTUC centre. WIE was invited to the panelist to share the insights on qualities for success in Science and Engineering career.
3. WIE organized a special session at IRC-SET 2017 on 10 August 2017 at Matrix, Biopolis. IRC-SET is a conference on Science, Engineering, and Technology. Eight speakers from various organizations has presented their research findings at this speaker session. The section was successful and WIE Singapore plans to continue the IRC-SET conference in future.
4. WIE is active in supporting schools to promote STEM career, a STEM Conference which was held at UWCSEA Dover at 10am to 2pm on 16 September 2017.
5. On 13 Oct 2017, in collaboration with IEEE ITSS, NTUC nEbO and NUS SINAPSE and with the support of IEEE student branches from SITD and NTU, WIE Singapore successfully organize a talk on ‘How to start a startup’ and membership recruitment drive at Centre for Life Sciences, NUS.
6. On 7 November 2017, WIE is invited to join the panel themed ‘Women in Healthcare’ organized by Medtronic APAC Service & Repair team in collaboration with the Medtronic Women Network (MWN).

* **International Conferences**

WIE is jointly organizing a track panel with YP, Comsoc YP and WICE at the internal conference GLOBECOM 2017 on 5 December 2017 at Marina Bay Sands Singapore.

* **Social Events**

WIE participated in community mass painting of Plank Arts Project on 4 June 2017 at the frontier community club.

**(B) Future Plans:**

WIE will follow up to meet the potential collaborators to explore and organize possible activity for WIE SG & IEEE members. We will continue to work closely with WIE Japan section, STEM Singapore, IEEE R10, IES WiSER and NTUC U Women Network in upcoming year.

**(C) Summary:**

Year 2017 is another successful year for WIE. We had organized 5 administrative meetings which drive the whole year for exciting activities, 6 technical seminars/Inspirational talks, and jointly organized YP/WIE track panel for IEEE GLOBECOM 2017 conference for promoting our WIE and IEEE section activities and continued the cooperation with STEM organizations in Singapore, IEEE Young Professional and student chapters, IES WiSER, NTUC U Associates Network and NTUC nEbO. We will work closely with our new women networks and connection with professional bodies to promote women profiles in Singapore.

In total, we have **13 activities** in terms of social, technical, networking and promoting event for the year 2017. We appreciate the strong support from IEEE Singapore Section, IEEE R10 WIE. We believe WIE SG can contribute more interesting and meaningful events and activities both in social and technical and serves as a communication bridge for women engineers and scientists with the world leading IEEE science and technology community.

**IEEE YOUNG PROFESSIONALS (YP) AFFINITY GROUP**

***Chairman: David Wong Liang Tai***

**(A) Activities for the Year 2017:**

* **Administrative Meetings**

20170124 – Globecom 2017 Kick-Off Meeting with WIE (Women in Engineering Singapore) and Prof Lawrence Wong (Globecom 2017 Executive Chair).

20170216 – 1st IEEE YP Meeting to discuss on planned activities

20170221 – Globecom 2017 budget ironing and events proposal

20170503 – 2nd IEEE YP Meeting to discuss on completed and planned activities

20170824 – 3rd IEEE YP Meeting to discuss on completed and planned activities

20171102 – 4th IEEE YP Meeting to discuss on completed and planned activities and next committee.

* **Technical Seminars and Talks**

1. [1x] Career Talk & Internship Seminar by Graymatics, Singapore focusing on Machine Learning, Computer Vision, Video and Image Processing at NTU on 7th Feb’ 17
2. [2x] Entrepreneurship Talk on ‘Challenges and Success Stories of Entrepreneurship’ by Junming Tan (ThunderQuote) & Tony NGUYEN (joyTu.be) at NUS in collaboration with Graduate Student Society on 3rd Mar’ 17
3. [1x] Creating Functional and Innovative Products Through Design Thinking by Peter Arnoud Bensen, Co-founder of PABensen Pte Ltd on 30 March 2017
4. [1x] Arduino Workshop” at NTU on 15th March 2017
5. [1x] “Co-designed Ethical Interventions In Resource Constrained Environments” by Paul M Cunningham IEEE SSIT (Society on Social Implications of Technology); Collaboration with IEEE Singapore Section in NUS on 03 August 2017
6. [2x] “Machine Learning in Data Analytics” by Dr Rouxu Ren and Mr. Zane Lim on 16th September, 2017 in NUS; in collaboration with IEEE Singapore Section
7. [1x] Empowering Massive IoT with SigFox by Jonathan Tan on 20th Sept 2017
8. [1x] Smart Applications using IoT and LPWAN by Mr. Tan S.M on 22nd Sept 2017
9. [3x] Medical Device Regulatory Affairs – Made Simple - 14 Oct 2017; in collaboration with IEEE Singapore Section.
   1. Evaluation of Technical Dossier – Insights from Regulator’s perspective By Su Jinyao
   2. Overview of ASEAN & Singapore Medical Device Regulations By Jacqueline Fok
   3. Introduction to Global and Asia-Pacific Medical Device Regulations By Kenneth Cheong
10. [1x] “Career Talk TV White Space- Super WiFI Communication Technology” by Dr Oh See Wah of WhizSpace on 17th Oct 2017 in NTU.

* **Social Events**

“Good Nutrition Habits” on 21 Mar 2017 by Prof Rob Martinus at NUS in collaboration with Graduate Student Society

**(B) Future Plans:**

* **Technical workshops and International Conferences**

1. Globecom 2017 – Co-organize with WIE (Women in Engineering) SG and WICE (Women in Communications Engineering)
   * Panel Discussion
   * Awards Presentation
   * Networking Session

**(C) Summary:**

* Technical workshop – 14x (+1 pending)
* Social – 1x
* Committee Meeting AY 2017 – 6x

**B.6 Awards & Recognition Activities**

**Awards Received**

* Dr Rajnish Gupta received the R10 Outstanding Volunteer Award
* Prof Low Teck Seng received the IES/IEEE Joint Medal Award

**Recognition of Past R10 Directors from Singapore**

The following past R10 Directors from Singapore were presented with a plaque each in recognition of their services to IEEE R10, during the Golden Jubilee celebration at the Sections Congress in Sydney:

* Prof. Liew Ah Choy, 1987 & 1988 R10 Director
* Prof. Low Teck Seng, 2001 & 2002 R10 Director
* Prof. Lawrence Wong, 2011 & 2012 R10 Director

The Singapore Section presents two awards annually: the Best Chapter Award and the Outstanding Volunteer Award. The purpose of the Best Chapter Award is to recognize the volunteers’ efforts, from within the member chapters of the IEEE Singapore Section. The IEEE Singapore Section Outstanding Volunteer Award aims to recognize those volunteers who have made outstanding contributions to the Singapore Section, and/or its Chapters/Affinity Groups and/or its IEEE Conferences.

In 2017, the Reliability / Electronics Packaging / Electron Devices Joint Chapter won the Best Chapter Award and the Outstanding Volunteer Award was given to Prof So Ping Lam from the Nanyang Technological University.

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

### Regular broadcasts containing information on seminars, talks, conferences, social events and membership benefits have been sent to IEEE members in Singapore. This was well coordinated by Prof Ponnuthurai Nagaratnam Suganthan.

The website (<http://www.ieeesingapore.net/>) provides an ideal publicity platform for IEEE Singapore Section and chapters to promote their events. Under the diligent update and maintenance by our Publicity Chair, Dr Li Wei, the annual maintenance cost is reduced by 50%.

**B.8 Industry Relations**

* Membership growth and retention

The section EXCO has formed a sub-committee headed by Dr. Amit Gupta to brainstorm about ways to promote IEEE membership among industry professionals in Singapore.

The section is actively involved with NTUC to develop common technical and professional courses and seminars for the technical personnel in Singapore.

**PART C - OTHERS**

**C.1 Special Events**

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

* IES-IEEEE Joint medal of excellence being continued. The Institution of Engineers, Singapore (IES) and the Institute of Electrical and Electronics Engineers, Inc. (IEEE) intend to continue with the IES/IEEE Joint Medal of Excellence Award. The aim of the award is to promote engineering as a profession and to recognize an individual for his/her contributions in Engineering that have had far-reaching impacts on society. The award is expected to inspire the young to take up engineering as a profession. This award is highly prestigious and the recipient will be recognized not only in Singapore but also the region and around the world.
* IEEE Singapore Section works with the national trade union congress (NTUC) as one of the members of U Associates. U Associate is a partnership program designed to engage and support professional associations. As members of U Associate, IEEE volunteers get chance to engage with professionals from related industry and prepare for future challenges to the economy. NTUC helps us in publicizing IEEE activities among other NTUC members and thus helps in our outreach to industry.

**PART D - GOALS AND PLANS**

**D.2 Goals and Future Plans**

Membership Development

To attract new members as well as make existing ones retain their membership.

1. Tie up with hotels and popular attractions for special discounts
2. Hold regular net-working events with topics that are of interest members
3. Organize movies events for networking
4. To add other attractions as membership benefits
5. Offer seminars / trainings / short courses with NTUC
6. List of activities to be included in website like a calendar of events

Engaging Students

To increase support for HKN activities. To encourage the HKN chapters to lead outreach activities in schools.

To continue to support activities like Graduate Student Symposium (GSS) organized by YP at NUS and towards membership development.

Engaging Industry

The section EXCO has formed a sub-committee headed by Dr. Amit Gupta to brainstorm about ways to promote IEEE membership among industry professionals in Singapore.

The section will engage with NTUC to publicize useful technical and professional courses and seminars for the industry professionals in Singapore.