2020 IEEE R10 EXCOM MEETING
11 January 2020, Queenstown, New Zealand

Chris Gwo Giun Lee
2019-2020 R10 Industry Relations Committee Chair
2019 Industry Relations Committee Committee Report
Vision

Leadership in bridging industry & academia
Cross pollinate between Industry & academia to foster Innovation, Internship & Entrepreneurship
## Industry Relations Committee 2019 Work Plan

### Committee Structure
1. Advisors: Stefan Mozar, (Australia), Andy Chen (Canada)
2. Chair: Chris Gwo Giun Lee
3. Members: Sheila Chuang (Fubon, Taiwan, TBC), Soumaya Jaber (U. of Adaleine, Australia), Toshihika Sugie (NTT, Japan) Suresh Nair (NeST Group, India), Amit Kumar (BioAxis, India), Chii-Wann Lin (ITRI, Taiwan), Justin Chuang (ASTRI, HK/China), Satriyo Dharmanto (CEO, Multikom, Indonesia), Nivas Navichandran (Past-Chair YP, India), Nirmil Nair, (Chair, PAC, New Zealand), Narendra Kumar (U. of Malaya, Malaysia) Muhammad A Farooqui (IR Chair, Pakistan), Azah SM Marzuki (Chair, IR & PA, Malaysia)

### Objectives
1. Fostering industry-academia networking platform for bidirectional interactions
2. Industry addresses pain spots & academia provides solutions
3. Students well prepared for industry: real world thesis topics and/or possible internship
4. Industry (including YP & WIE) accesses advanced technologies and talents from academia
5. Recruiting more industry members

### Projects / Tasks
1. Industry Forum Organization during 2019 at:
   i. AICAS
   ii. ISCAS
   iii. TENSYP (cancelled)
   iv. ICCE Asia
   v. TEMS India (Cancelled)
   vi. TENCON
   vii. TEMS ISIE
   viii. HTC
   ix. VCIP

### Budget (in US$)
1. Project 1:
   - Total Budget: $ 29,900
   - Actual Spending: $ 16,526
   - Balance: $ 13,374

### Project / Task Measurable
Project 1:
1. Responses from industry & academia
2. No. of invited industry speakers w/ high influence/potential
3. No. of Student, YP, & WIE members attended

### Timeline & Metrics
1. Project 1:
   - Timeline: AICAS (Mar), ISCAS (May), TENSYP (June), ICCE Asia (June), TEMS India (Changed to Dec.), TENCON (Oct), TEMS ISIE (Oct), HTC (Nov), VCIP (Dec)
   - Metrics: Task measurables above
Industry Forum Description:

In view of aging societies, significance of digital economy and global warming, this Industry Forum is organized together with Young Professionals (YP) and Women in Engineering (WIE) within IEEE Circuits and Systems Society with industry leaders, investors, and venture capital invited to share their visions on how current state-of-the-art in EDGE/mobile devices, capable of near real-time decisions, may influence our daily life from the perspectives of healthcare, finance, and energy. Upon addressing the pain spots of these industry sectors, internship and potential industry/academia collaboration opportunities upon current Technology 4.0 entrepreneur landscape will also be speculated.

Observations & Suggestions:

- First flagship conference organized by Taiwan in Hsinchu city, high-tech center focused in semiconductor

- 150+ registrations originally expected but had more than 250 registrations including many local industry leaders & professors interested in the trend

- Attracted ~80 attendees e.g. students, professors, researchers, and many local industry leaders

- Both local industry leaders and international professors joined the conference even w/o papers. Indicated importance of location and topic of the conference

- Promotion should be done early

- Industry forum speakers be matched with academia and professors to moderate forum for high quality effects
Observations & Suggestions:

- Comments are as follows.
  - Good eye opener on interesting application of emerging technologies.
  - The presentations are nice. But their themes are outside the scope of ISCAS.
  - This is excellent forum.

- The theme you would like to listen to:
  - Future of VLSI Industry
  - Wearable devices, IoT, Healthcare
  - Society 5.0, No Maps, Quantum Computing
  - Energy saving, Automotive
  - Effective Collaboration between Industry & Academia/Research
  - More themes related to circuits & Systems
  - Building the society through electronics engineering
  - Technologies related to the Olympics (past and latest)

- It would be better if participants had the opportunity to register only in the forum.

- Exhibition booth will help to promote participation in the forum.

- The forum should be prepared from the time of creating the program of the conference.
  (Society). Closer to holding a conference, negotiation becomes more difficult.

- It is important to cooperate with the local section/local affinity group (WIE, YP) and establish a local forum organization.
<table>
<thead>
<tr>
<th>Industry Forum Description:</th>
<th>Observations &amp; Suggestions:</th>
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</thead>
<tbody>
<tr>
<td>Pending conference organizer’s report</td>
<td>Pending conference organizer’s report</td>
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</table>
Special Industry Track:

Observations & Suggestions:

- **SIT Program** is a new initiative introduced & innovated by Takako Hashimoto & Program Chair is Mr. Amarnath Raja.

- **Title:** Challenges & Opportunities in AI-IoT: SMARTech, eMobility, and Cybersecurity

- Embedding a full day SIT co-located with the normal paper track under academia environment, as per Prof. Takako Hashimoto’s vision was indeed successful

- Included industry visit tour, on Oct. 20th, 2019, to Kerala’s Maker Village

- Feedbacks expressing that panel discussions are more informative than presentations

- With experiences learned this year we should further promote internship, entrepreneurship, Startup Pitching Contest, etc. next year

- Feedbacks requesting to have SIT program released earlier on the conference webpage to provide more lead time for interested attendees in better planning
Industry Forum Description:

- **Title:** Disruptive Healthcare, Wellbeing, Humanity and Sustainability in the 4th industrial Revolution

- 2nd day of a three-day conference co-organized by IEEE TEMS Society with Business School of Zhejiang University

- Characterizes cross engineering and management disciplines

- 1st day primarily on paper sessions for management school

- 2nd day was primarily on Industry Forum

- 3rd day was originally planned for putting both attendees of day one and day two together for say pitching contest

- Followed by a visit to “Dream Town”, a startup village

Observations & Suggestions:

- Interesting to observe how cross disciplinary experts in management were also interested in the issues of AI and big data under IEEE’s technical environment.

- Forums were organized in panel discussion formats with panelists from industry, academia, government, and also VCs

- Full day of the conference was dedicated entirely to industry forums

- One full day SIT as an add-on program with existing IEEE technical conferences provide more flexibility in organization to attract normal paper track attendees and industry to attend and interact on the same platform
IEEE HTC 2019: Nov. 13th Depok, Indonesia

Special Industry Relation Track:

- Attendees offered satisfactory feedbacks after the programme
- Speakers emphasized the status of start-up scenario in Indonesia and Asian countries along with success stories and challenges faced
- had a session represented from Ministry of Communication and informatics of Indonesian Government which discussed about the types of Governmental support in Indonesia and innovation cycle as a whole
- CEOs of Nodeflux and Tokopedia stressed upon the need to startups to focus on the public issues and conceptualise their companies which may solve the problems of masses
- Amit Kumar spoke about the Forensic marketplace and how he sustained the market for a longer period and also represented the IEEE Region 10 Industry relations
Industry Forum Description:

- Organized by Stefan Mozar

Speakers & Title:
- What are the fundamentals one must imbibe from a Management Course (MBA or otherwise) and how would it help your career path in any Technology driven market by Mr Ollencio D’Souza
- Starting a business by Prof. Alex Baitch
- The Role of Women in Engineering by Ms. Soumaya Jabar

Observations & Suggestions:

- There were approximately 30 attendees and the session went well
### 2019 IRC Budget & Actual Spending

<table>
<thead>
<tr>
<th>Meetings</th>
<th>Travel Expense</th>
<th>Plaques &amp; Souvenirs</th>
<th>Students</th>
<th>Industry Speakers</th>
<th>Total</th>
<th>Remaining Balance</th>
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<td>2) ISCAS (May 26-29, Sapporo, Japan) Industry Forum</td>
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<td>3) TENSYMP (June 7-9, Kolkata, India) Industry Forum (cancelled)</td>
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<td>4) ICCE Asia (June 12-14, Bangkok, Thailand, to be confirmed) Industry Forum</td>
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<td>5) TEMS India (Sept. Bangalore, India) Meetups (cancelled)</td>
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<td>6) TENCON (Oct. 17-20, Kerala, India) Industry Forum &amp; Matchup</td>
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<td>7) TEMS ISIE (Oct. 24-26, Hangzhou, China) Industry Forum &amp; Matchup</td>
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<td>8) HTC (Nov. 12-14, Depok, Indonesia) Industry Forum</td>
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<td>9) VCIP (Dec. 1 ~ 4), Sydney, Australia) Industry Forum</td>
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<td>3,724</td>
<td>4,500</td>
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Conclude 2019 & 2020 projection

Had good industry forums in 2019, in 2020 further work on Internship & Entrepreneurship
Let’s change the world together!

讓我們一起改變世界!