



# IEEE Victorian Section

Industry Leadership Forum -

Dr. Eddie Custovic, Chair IEEE Victorian Section

# Our mission for tonight

“Assembled IEEE leaders with industry leaders to discuss what the IEEE can do to better serve the Victorian industry and how the IEEE/Industry can work together in the near future”

“Create action items and organise follow-up meeting in second half of year”

# Agenda - Industry Leadership Forum

- ▶ 6:00 - 6:15 Meet and greet (Canapes + Drinks)
- ▶ 6:15 - 6:30 IEEE and IEEE Victorian Section: Where are we now?
- ▶ 6:30 - 7:00 IEEE Standards & Industry
- ▶ 7:00 - 8:00 Open Forum Discussion: IEEE catering to the needs of Industry
- ▶ 8:00 - 8:30 Networking (Canapes + Drinks)

# Introductions – IEEE Victorian Section

- ▶ Dr. Eddie Custovic, (La Trobe University) Chair IEEE Victorian Section
- ▶ Dr. Peter Moar, Chair – (La Trobe University) Industry Engagement
- ▶ Claudio Insaurralde, (Quarrie Stone Pty Ltd) Industry Relations, Region 10
- ▶ Dr. Greg Adamson, (ANZ) Chair – Conferences
- ▶ Marcela Vecino, Vice Chair – Young Professionals
- ▶ Dr. Fatameh Jelali, (IBM), Vice-Chair Women in Engineering
- ▶ Dr. Dinuka Kudavithana, Student Activities Coordinator

**Special Guest:** Srikanth Chandrasekaran, (Freescale Semiconductor) Director – Standards & Technology, IEEE India

# Overview: IEEE Victorian Section

- ▶ IEEE Victorian Section is an organisation that is part of a global organisation of 430,000 + volunteers dedicated to advancing technology for humanity.
- ▶ Our section was founded in 1975 and has operated independently since 1983. We serve more than 2000 members within Victoria and Tasmania.
- ▶ There are 17 chapters and affinity groups in Victoria covering a myriad of interest areas, namely; Circuits & Systems / Solid-State Circuits, Communications, Computational Intelligence, Computing, Education, Electromagnetic Compatibility, Engineering in Medicine & Biology, Lasers & Electro-Optics /Electron Devices, Microwave Theory & Techniques / Antennas & Propagation, Oceanic Engineering, Power and Energy, Signal Processing, Social Implications of Technology, Systems, Man and Cybernetics, Technology and Engineering Management Vehicular Technology.
- ▶ We also are actively engaged in catering to the needs of Students, Young Professionals, Women in Engineering, and Life Members. It is fair to say, that collectively our section membership contains vast knowledge.
- ▶ Our section organises more than 150 meeting/events per year. In addition to the these activities, the Victorian Section organises and sponsors several major conferences/exhibitions/symposia in any given year, as well as short courses and technical training.

# Examples: Current Industry Engagement

- ▶ RFID – Past, Present & Future -50 attendees, 2015 (40 from Industry) (Bluechip, Toll etc)
- ▶ 2016 Victorian Engineering & IT Career Expo – 21<sup>st</sup> September – State Library
- ▶ 2015 IEEE Life Members and Circuits and Systems Society visited Dyne Industries and Wilson Transformer Co Ltd. Very informative for the two groups and would like provide more of these for industry need arises.

# Women in Engineering – Industry Engagement

- ▶ In August 2015, the IEEE Women-in-Engineering (WIE) were awarded a Commonwealth Government grant to run the Energised Fashion Runway during the National Science Week. We have worked closely with the AoDA at the event and we showcased a number of garments incorporating wearable technology. Attracted ~ 250 attendees including Minister for Training, Skills and Apprenticeship, Shadow Minister for Young Victorians) has kindly opened the event and WIE were overwhelmed with the positive feedbacks from the audience.
- ▶ WIE collaborate hosted the event 'Electronica' at Virgin Australia Melbourne Fashion Festival as a joint event with Academy of Design Australia on 04<sup>th</sup> March 2016. IBM sponsored this event by providing smart tags which have a number of interesting sensors to will collect data from the models and uploading the data into the IBM cloud server. IBM also sponsored \$800 for electronics components at the show. Pakronics also sponsored this event by providing electronics components to attach into dresses.
- ▶ WIE Victoria successfully had the tech talk **"Bluemix & Internet of Things"** by Shamim Hossain as a joint event with IBM on 06<sup>th</sup> April. The event was fully sponsored by IBM and had a room full of participants who enjoyed the live demonstration and introduction about IBM's Cloud based "Watson" Platform.
- ▶ WIE is also planning to have more collaborative workshops and industry visits with IBM in the near future.

# Industry Coordination – Dr. Peter Moar

- ▶ Aims for new initiative
- ▶ Logically, provide more benefits/incentives for IEEE industry based members
- ▶ Increase active participation rate from current and future members
- ▶ Utilise the IEEE global organisation to assist Victorian industry activities globally
  - Being involved with IEEE standards committee can provide global exposure for local companies and individuals. Those companies/orgs will define the industry standards before they are officially accepted giving them a huge jump on develop the products and services of future GLOBAL markets.
- ▶ Establish an IEEE Industry led sub committee/advisory group to set the agenda and roadmap
- ▶ Next steps
  - Follow up from tonight's session/event with the aim to establish an active IEEE Industry Advisory group
  - Arrange two more events before the end of the year
  - Profile a number of organisations where IEEE Industry members are based



# Industry Coordination – Dr. Peter Moar

- Frank and fearless feedback from IEEE industry members who have something to say now? Ideas, suggestion, what works what doesn't etc.
- Background info: IEEE is **the world's largest technical professional** organization dedicated to advancing technology for the benefit of humanity. IEEE and its members inspire a global community to innovate for a better tomorrow through its highly-cited publications, **conferences, technology standards, and professional and educational activities**. There are more than **420,000 IEEE members in more than 160 countries**. **IEEE publishes a third of the world's technical literature in electrical engineering, computer science and electronics and is a leading developer of international standards that underpin many of today's telecommunications, information technology and power generation products and services**. Background info: OECD report ranks Australia 33rd from 33 countries which it comes to the level of collaboration between academia and industry?
- How can being a member of the IEEE or the IEEE Victorian Section etc help reverse this trend?
- Can IEEE Industry body advocate change domestically politically, socially etc?
- At times the relative roles of IEEE and Engineers Australia can be confusing. EA is the national body for engineers, while IEEE plays a global leadership role in its fields. Is there some way IEEE can work with EA to help achieve EA's international goals?

# National Society Agreement

- ▶ IEEE and Engineers Australia
- ▶ World Engineering Conference and Convention (World Federation of Engineering Organisations), Melbourne 2019:
  - Former IEEE Victorian Chair Dr Greg Adamson attended WECC in Kyoto November 2015 as the keynote speaker on Engineering Ethics. With EA hosting the next WECC in Melbourne in 2019, there may be opportunities for collaboration with IEEE Victoria.