



The Institute of Electrical and Electronics Engineers, Inc.

## VOLUME 47 Issue 3

*Secretariat*

**October 2020**

AUSTRALIAN PROFESSIONAL CENTRE  
PO Box 576  
CROWS NEST NSW 1585  
Tel: +61 2 94318600

IEEE NEW SOUTH WALES SECTION  
ARBN 078 576 495 ABN 34 078 576 495

Editor: Bill Sloman  
e-mail: [bill.sloman@ieee.org](mailto:bill.sloman@ieee.org)  
Web page:  
<http://sites.ieee.org/nsw/>

### Contents:

Pages 2	Chair's message
Page 3	2021 IEEE International Symposium on Information Theory (ISIT 2021)
Page 4	About the Life Members Affinity Group, and Joint BT/CT/PSE Chapter
Page 5	Sensors Council activities
Pages 6 - 7	Education Chapter on-line meeting
Pages 8 - 9	Education Chapter electronic design tool training
Page 10	The registration of engineers in NSW.
Page 11	Region 10 peripheral members congress - student, YP, WIE and life members.
Page 12	IEEE Sensors 2021 conference
Pages 13 - 16	New and upgraded members
Page 17	If you want this on paper by post, and aren't already getting it that way.

### Editorial:

This is the eighteenth newsletter I've edited. This one is being edited with the same copy of the very latest stable version of Libre Office – 6.3.6.2 that I downloaded back in June. Covid-19 seems to be slowing down Libre Office in the same way that it is slowing down most activities.

This reports our activities during the corona virus epidemic. There weren't many of them, since we exist to bring people together and this isn't a good idea in the middle of an epidemic.

Subhas and Sudipta have been persuaded to write up a bit about on-line get-togethers, for which I'm grateful - this Circuit was looking a bit thin.

We do have one bit of very good news.

The Australian newspaper has named one of our most active local members

Professor Subhas Mukhopadhyay

as one of its fifty field leaders amongst Australian university staff, in the field Engineering and Computer Science (General).

It would be even nicer if the Australian wasn't owned by Rupert Murdoch but it is always nice to see good people recognised, even if the organisation doing the recognition may be a little weak on credibility.

## Chairman's Message

The end of the year is fast approaching. This has been a year unlike any that we can remember.

Last year, I had great plans for 2020. I would be involved in as many activities as possible and meet as many members as possible. I'd introduce social get to-gethers, so that members could get to know others in their local area.

The pandemic has stopped this happening, keeping most of us to our immediate surroundings. Many of us are wondering when 'face to face' activities will resume and what form they will take. Things have not been all bad. The use of technology has allowed members who had previously been unable to participate in events, to take part in them (if only virtually). We need to maintain this involvement.

To achieve this we need to incorporate these and other technologies when things revert to 'quasi-normal', not just go back to our old ways.

As well as the locally organised events, there are many other events in which you can participate. As the Section becomes aware of these events you will be sent an eNotice, if time allows. We have had invitations to events from other Australian Sections. Also remember that some events are recorded so that you can watch them at a time convenient to you, though this doesn't qualify as participation.

IEEE has a web page – [COVID-19 News and Resources](#), and there is [IEEETV](#) which has recordings of various events, and do check the Societies' websites for their activities and resources. Make the most of the resources that IEEE provides.

The Section welcomes those of you who wish to help, either being involved in a current activity or even initiate a new one. Feel free to talk to me about it. I would love to hear from you.

Coming back to local events, it has been decided that due to coronavirus, there will be no dinner as part of the AGM, and the AGM will be virtual, with no audience. The final details are yet to be decided. The date of the AGM will be Thursday 19 November. The meeting will be streamed. Final details will be distributed in November, via eNotice.

The total Section membership is often quoted, but no mention is made of the numbers in the individual grades. I have broken out the current membership (September) into the various grades, which is shown in the table below. In a future letter, I will break down the Section's membership of the various Societies and Groups.

Membership Grade	Number
Affiliates	51
Associates	22
Fellow	35
Graduates	388
Life (all grades)	186
Member	1551
Standards Association Member	2
Senior Member	312
Student	94
<b>Total</b>	<b>2641</b>

Regards - Colin Elston, **Chair, NSW Section**

## 2021 IEEE International Symposium on Information Theory (ISIT 2021)



The Organising Committee cordially invites you to **participate** in the 2021 IEEE International Symposium on Information Theory (ISIT 2021), 11-16 July 2021, **Melbourne, Australia**. ISIT was last held in Australia in 2005, in Adelaide.

The ISIT is the premier international conference series dedicated to the advancement of information theory and related areas. It brings together an international community of researchers and practitioners each year to present and discuss new research results and perspectives on future developments relevant to all areas of information theory, including big data analytics, source and channel coding, communication theory and systems, cryptography and security, detection and estimation, emerging applications, networks, network coding, information theory, signal processing, and statistical/machine learning.

Hosted by the IEEE Information Theory Society, ISIT 2021 will feature contributed papers, the Shannon lecture and plenary talks, as well as tutorial sessions.

The Symposium is **currently scheduled to run at** the Melbourne Convention and Exhibition Centre from Monday 12 to Friday 16 July. Pre-symposium tutorials will be held on Sunday 11 July. The Melbourne Convention and Exhibition Centre is situated on Melbourne's famous Yarra River and is centrally located in Melbourne. It is within walking distance to a wide variety of accommodation, parks, cafes, and restaurants.

**In case of a fully online or hybrid event, adjustments will be made to deliver a cutting-edge scholarly and networking experience to all participants regardless of their mode of participation. The Organising Committee looks forward to your scholarly contributions and participation in ISIT 2021.**

For more information and call for papers, please visit the conference website:

<https://2021.ieee-isit.org/>

Article submitted on behalf of the conference organisers by Mahyar Shirvanimoghaddam

## **Life Members Affinity Group**

The NSW Section has 186 Life Members. They are - variously - 18 Life Fellows, 42 Life Senior and 126 Life Members.

The members are scattered across the state from Bryon Bay and North Arm in the north to Broken Hill in the west, through Burra (near Queanbeyan) to Figtree (near Wollongong).

The majority of Life Members are in the Sydney, Wollongong, Central Coast and Newcastle areas.

The Section has Life Members Affinity Group which is currently not very active. The Group needs some eager volunteers to inject life back into it. The activities may include social outings, assistance to other Life Members, mentoring junior members, technical presentations, site visits and providing assistance to groups within the Section. It is realised that most of us are time-constrained but we do need to keep an eye out for our fellow IEEE members and assist where possible.

## **Joint BT/CT/PSE Chapter**

### Update

The change of name to Consumer Technology Society (CTSoc) is now official.

In September the CT society created 9 SIGs (Special Interest Groups) which are

- AI, Big Data & Cloud Computing (ABC)
- Art, Advertisement, Design & Display (AD2)
- IoT, Mobile & Vehicular (IMV)
- Maker Group (MKR)
- Smart Education & Training (SET)
- Smart Factory & Automation (SFA)
- Standards & Open Technology (SOT)
- Safety, Security & Reliability (SSR)
- White Goods & Home Appliances (WHA)

A member of a SIG does not have to be a CTSoc member.

submitted by Colin Elston, who is the Chair of the NSW Section, but has additional interests

## Sensors Council Activities

Tactile Skin Technologies for Robotics and Medical Applications

03 Sep 2020 05:00 PM      CH10903      Sydney, New South Wales

Wearable Magnetic Skins and Sensors

13 Aug 2020 05:00 PM      CH10903      Sydney, New South Wales

Fabrication and Characterization of Smart Sensors for Better Living

05 Aug 2020 04:15 PM      CH10903      Sydney, New South Wales

Chip-scale Atomic Devices:

Miniature Precision Instruments using Atoms, Lasers and Silicon Micro-machining

24 Jul 2020 11:00 AM      CH10903      Sydney, New South Wales

EXEC committee meeting

13 Jul 2020 04:00 PM      CH10903      Sydney, New South Wales

Publishing a good scientific paper in IEEE

10 Jul 2020 03:30 PM      CH10903      Sydney, New South Wales

IoT and WSN for Health, Home Management and Smart City

08 Jul 2020 03:30 PM      CH10903      Sydney, New South Wales

Trends for Wearable and Medical Devices

02 Jul 2020 12:00 PM      CH10903      Sydney, New South Wales

Vibrating beam MEMS accelerometers for gravity and seismic measurements

25 Jun 2020 07:00 PM      CH10903      Sydney, New South Wales

IEEE SC NSW Chapter - Executive comm meeting

09 Jun 2020 04:00 PM      CH10903      Sydney, New South Wales

Industry 4.0 Internet of Things –

Sensors, Mechatronic Training System and Smart Factory Automation

11 Mar 2020 02:00 PM      CH10903      Sydney, New South Wales

IEEE SC NSW Chapter

19 Feb 2020 03:00 PM      CH10903      Sydney, New South Wales

From wearable sensors to behavioral informatics: frontiers in digital health

19 Feb 2020 02:00 PM      CH10903      Sydney, New South Wales

submitted by Professor Subhas Mukhopadhyay (after a bit of editorial arm-twisting) who is the chair of the local chapter of the Sensors Council.

## **IEEE EDUCATION SOCIETY WORKSHOP**

### **STUDENTS, EDUCATION AND THE SPAN OF COVID-19 IN AUSTRALIA**

#### **24<sup>TH</sup> SEPTEMBER 2020**

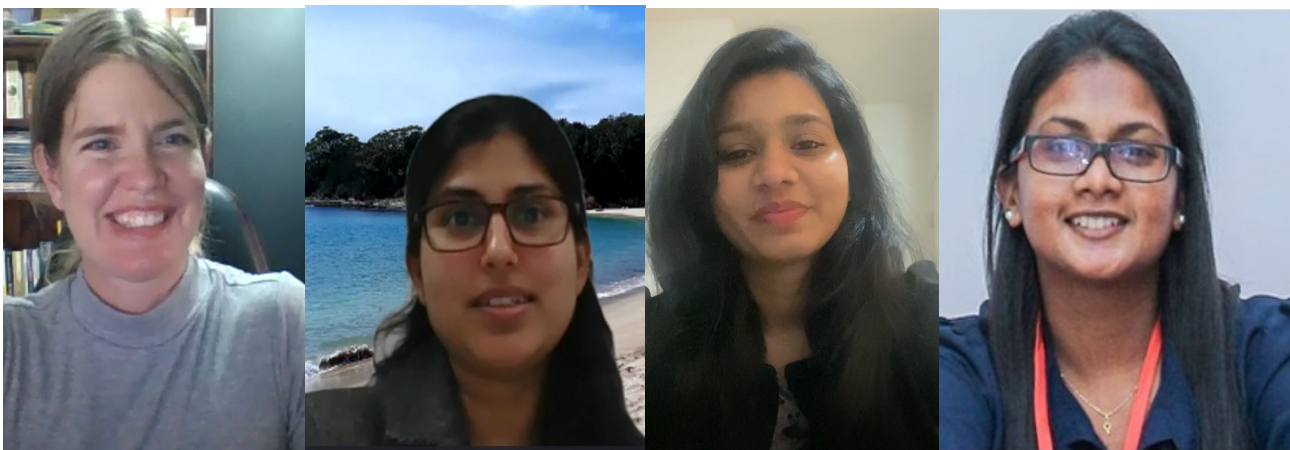
This year has been greatly affected, and will continue to be affected, by COVID-19. Different aspects of our lives have been significantly changed and education system is no exception. In this phase of "new normal", as we are trying to cope with this pandemic, we have found new ways to get around many problems. Both students and academics have faced many challenges as universities were forced into lock down in the first half of the year. The restrictions are still in place and we have yet to revert to what had previously been normal teaching.

We thought it would be interesting to hear from the students about their experience of the "new normal". The NSW chapter of the IEEE Education Society, organized a workshop on 24<sup>th</sup> September titled **"IEEE Student Connect: Students, education and the span of COVID-19 in Australia"**. This event spanned for two hours. In the first half Emeritus Prof. Lance Fung from Murdoch University, WA shared information about the current IEEE R10 Educational activities. His talk was followed by panel discussion with the students from different universities across NSW. Prof. Lance's talk was co-hosted by WA section. There were 28 participants in this workshop.

Prof. Lance talked about about the different educational activities organized in IEEE Region 10. He highlighted the different opportunities available for the IEEE volunteers. He encouraged the participants to visit the websites: [iln.ieee.org](http://iln.ieee.org) and [ieee.org](http://ieee.org) for more information. He did mention some of the awesome inventions that Australia has given to the world. Overall he was hopeful that we will get to the other side and new doors of opportunities will open for students and researchers even though our lives are greatly affected by COVID-19 at the moment.



The student panellists were: Jeremy Lawless from UOW, Hua Chai from UNSW, Avishkar Seth from MQ, Yuris Mulya Saputra from UTS and Manisha Arde from WSU. There were some positive and negative feedback from the students. In general, students are managing their studies but the biggest challenge is with their labs, discussion with the tutors and peers. It is difficult for them to keep up the motivation. On the positive side students are not wasting any time for travelling to university and research students suggested that they have more time to think. We had a good discussion session with the students.

We would like to share a few photographs from the workshop:





PowerPoint Slide Show - [Webinar 20200924 1500 NSW Ed Society Chapter]

***Students, Education & the Span of COVID-19 in Australia***

**Chun Che Lance Fung**  
**Emeritus Professor, Murdoch University**  
**Chair, IEEE Region 10 Educational Activities Committee**  
*Immediate Past Chair, IEEE New Initiatives Committee*

2

IEEE New South Wales Education Chapter

**STUDENTS, EDUCATION & THE SPAN OF COVID-19 IN AUSTRALIA**

*Student Connect*




**Jeremy Lawless**  
University of Wollongong



**Hua Chai**  
University of New South Wales



**Avishkar Seth**  
Macquarie University




**Yuris Mulya**  
University of Technology Sydney

**Thursday, 24 September 2020**  
**5:00 - 7:00 PM**  
<http://bit.ly/ieee-student-connect>  
**Register Today!**  
<https://events.vtools.ieee.org/event/register/238555>


PowerPoint Slide Show - [Webinar 20200924 1500 NSW Ed Society Chapter]

**Acknowledgement**


- Dr Sudipta Chakraborty**
  - School of Engineering
  - Macquarie University
  - Vice-Chair, IEEE NSW Section
- Ms Tharushi Nathasha**
  - Chair - Educational Activities | IEEE PES Day 2020
  - Content Editor | IEEE MGA SAC Excellence Team
  - Sub Committee Member | IEEE R10 SAC Training & Webinar Team



**Jeremy Lawless**  
University of Wollongong



**Hua Chai**  
University of New South Wales



**Avishkar Seth**  
Macquarie University

**Virtual Events from Educational Activities Available On Demand**

IEEE TECH TALK VIRTUAL PANEL SERIES Innovation at work	IEEE Educational Activities DISTANCE LEARNING VIRTUAL EVENT SERIES	IEEE-NNN PATHWAYS to Industry
<ul style="list-style-type: none"> <li>6 Events</li> <li>2,856 total registered</li> <li>Partners: Future Directions, Standards Association</li> </ul>	<ul style="list-style-type: none"> <li>5 Events</li> <li>9,314 total registered</li> <li>Partner: IEEE MSD</li> </ul>	<ul style="list-style-type: none"> <li>3 Events</li> <li>684 total registered</li> <li>Partners: ECEDHA, Texas Instruments, IEEE USA</li> </ul>
<b>TryEngineering LIVE: Engineer Spotlight</b> <ul style="list-style-type: none"> <li>4 Events</li> <li>841 total registered</li> <li>Partner: Oceanic Engineering Society</li> </ul>	<b>TryEngineering LIVE: Hands-on Design Challenges</b> <ul style="list-style-type: none"> <li>6 Events</li> <li>1,908 total registered</li> <li>Partners: Engineering Tomorrow, IEEE REACH, Spectrum (ROBOTS.org)</li> </ul>	Access on demand at <a href="https://bit.ly/eavirtual">https://bit.ly/eavirtual</a>

**IEEE EDUCATION SOCIETY WORKSHOP**  
**EDA TOOL TRAINING SERIES: PART 1**

**ELECTRONIC PROPERTY CALCULATION OF MATERIALS USING  
 DENSITY FUNCTIONAL THEORY SIMULATION  
 30<sup>TH</sup> SEPTEMBER 2020**

In this new normal life under the influence of Covid-19, we are even more reliant on software than ever before. In the universities across the globe, laboratory hands-on work has been shifted to simulation environments. In our education system, both students and academics are increasingly using simulation tools. In this situation, we thought that launching an EDA training tool series which would be useful for our members.

The idea is to introduce the basic concept of using a particular EDA tool and to show a few simple examples.

Our first demonstration of this series was a talk was “**Electronic property calculation of materials using Density Functional Theory (DFT) simulation**”. This demonstration was intended for individuals with little or no experience of DFT simulations but with a basic (undergraduate) knowledge of electronic materials. In the first part of the presentation, some fundamental concepts required for DFT simulation were run through. Then the open source DFT simulation package **Quantum Espresso using the BURAI graphical user interface** was introduced. The basic features for successfully calculating the electronic structure of different materials were demonstrated.

The invited speaker for this workshop was **A/Prof. Sayan Kanungo** from BITS-Pilani, Hyderabad, India. His current research interests include engineering the electronic and optical properties of two dimensional crystalline semiconductors for electronic, optoelectronic and sensing applications as well as the design and modelling of emerging post-CMOS devices like Tunnel FETs for label-free gas-sensing and bio-sensing applications.

There were twenty participants from NSW and overseas. We have received good feedback from some of the participants inquiring after the recording link and more supporting materials. We intend to continue with the EDA training tool series in the future, demonstrating some other tools, preferably open source, which would be easily accessible to any participant.

If you have any comments or suggestions or want to contribute in a workshop please write to us at: [sudipta.chakraborty@ieee.org](mailto:sudipta.chakraborty@ieee.org) , [tharushi@ieee.org](mailto:tharushi@ieee.org)

We would like to share a few photographs from the workshop:



# Electronic Property Calculation of Materials using Density Functional Theory (DFT) Simulation

Presented by

**Dr. Sayan Kanungo**

In

**EDA Tool Training Series Workshop**

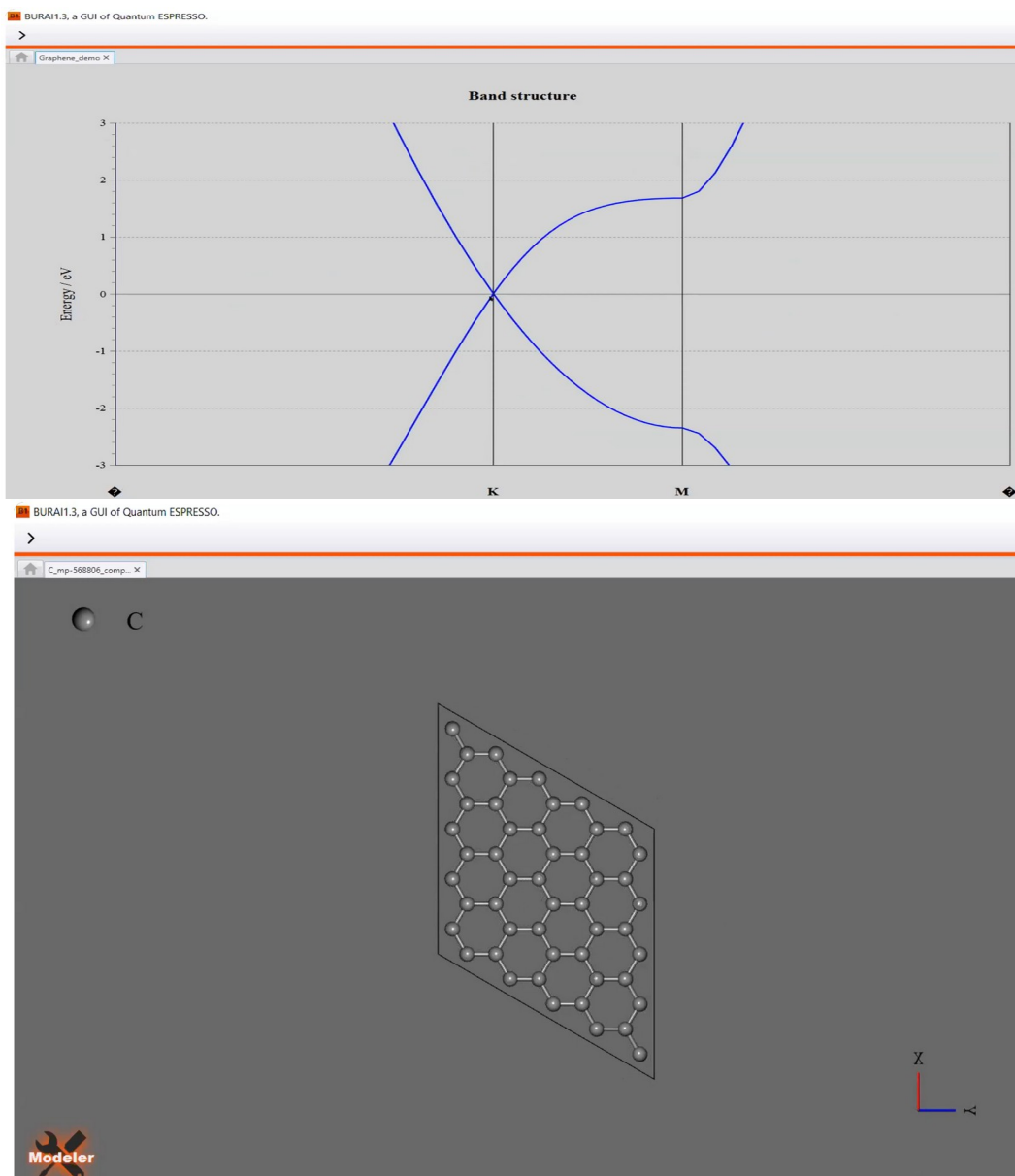
**Assistant Professor**

**Electrical and Electronics Engineering Department  
BITS-Pilani, Hyderabad Campus**

Organized by  
IEEE Education Chapter, New South Wales, Australia  
**30<sup>th</sup> September, 2020**

1

Dr. Sayan Kanungo, EDA Tool Training Series  
Workshop, 30/09/2020



Article submitted by Sudipta Chakraborty

## Registration of Engineers in NSW

In June 2020 legislation passed both Houses of the NSW Parliament for the Mandatory Registration of Engineers. The Act is titled Design and Building Practitioners Act 2020

<https://www.legislation.nsw.gov.au/view/whole/html/inforce/current/act-2020-007>.

Civil, Electrical, Fire, Mechanical, Structural Engineers, amongst others, that are not supervised, must be registered and carry appropriate insurance. Although the Act takes effect from 1<sup>st</sup> July 2020 the enforcement date is expected to be 1<sup>st</sup> July 2021.

It is recommended that affected Members fully inform themselves about the responsibilities imposed by and consequences arising out of the new Act.

It must be noted that in the case of criminal negligence professional indemnity insurance is not likely to provide cover.

In the more distant past the general opinion was that an employee was covered by the employer's insurance. However in more recent times the situation has become somewhat unclear (for example the situation where an employee has been claimed to have acted dishonestly).

IEEE in association with IET and Engineers Australia are planning a presentation on the subject as part of the Joint Institutions Lecture Series in 2021. This will be reported in a future edition of CIRCUIT.

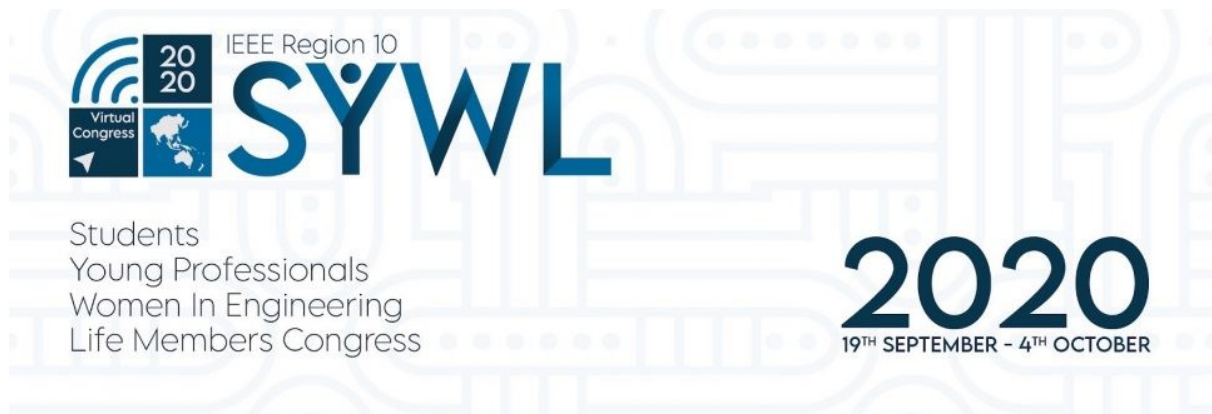
Editor's note: Adam Smith famously said "People of the same trade seldom meet together, even for merriment and diversion, but the conversation ends in a conspiracy against the publick, or in some contrivance to raise prices" and the registration of engineers can be seen as just such a contrivance.

The building inspector scandal - Mascot and Opal Towers - in NSW illustrates how it can go wrong when the wrong people get registered and stay registered.

The registration of engineers make a lot more sense when the engineering technology involved is stable, and not subject to frequent innovation and improvement.

Tony Zaglas, who wrote this article, is a power engineer. I'm an electronic engineer, and electronic engineering does move on rather faster.

## The IEEE Region 10 Student, Young Professionals, Women in Engineering, and Life Member Congress



1. The IEEE Region 10 Student, Young Professionals, Women in Engineering, and Life Member Congress (IEEE R10 SYWL 2020) was held virtually, 19 Sep – 4 Oct, 2020. The aims of the congress is to bring together different groups of IEEE Members, Students, Young Professionals, Women in Engineers and Life Members across IEEE Region 10. Where there are benefits of having face-to-face meeting and interaction during the events, this year was unique for the congress due to COVID-19 pandemic, as it is being held virtually, without borders and was attended by a larger number of attendees from different countries of IEEE R10 and beyond.

The theme of virtual IEEE R10 SYWL Congress 2020 is **“Pandemic to Opportunity – Collaborative Leadership Towards Technology Advancement for Humanity”**.

The congress provided a great opportunity to listen to the experiences and ideas from the leaders and volunteers engaged at various level from student branches, section level and R10 level. I would like to highlight events from two tracks, Young Professional and Women in Engineering.

Women in Engineering tracks lead by R10 WIE Chair, Emi Yano. The activities were very interactive and were attended by good number of WIE members. The sessions were organised as:

- WIE Best Practices, Challenges and Opportunities
- Career Development for Mid-career WIE
- WIE Leaders Discussion and Networking
- WIE Leaders Recommendations

Young Professional track was led by R10 YP Chair, Takau Suzuki. In YP sessions the activities and discussions were focused around the following tracks:

- The new IEEE Volunteering Platform – Volunteering on your Terms
- Elevation through Member Grades
- Entrepreneurship and Industry Engagement
- Professional Skills in Management of YP AG
- Members of IEEE NSW section, attended the congress and also contributed as volunteers.



**Hijab Zahra** Vice Chair, IEEE NSW YP AG, Treasurer IEEE NSW WIE AG



## CALL FOR PAPERS

### Organizers

#### General Co-Chairs

**Mike McShane**  
Texas A&M University, USA

**Subhas Mukhopadhyay**  
Macquarie University, Australia

#### Technical Program Co-Chairs

**Kourosh Kalantar-zadeh**  
University of New South Wales (UNSW), Sydney NSW, Australia

**Gijs Krijnen**  
University of Twente, The Netherlands

### Important Dates

#### May 6, 2021

Proposals for Tutorials

#### May 6, 2021

Proposals for Focused Sessions

#### June 18, 2021

Paper Submission Deadline  
(Max 3 pages of text + 1 page of references)

#### August 9, 2021

Notification of Paper Acceptance

#### August 30, 2021

Submission of Final Papers

Visit the website for the most up to date information relating to abstract submission, tutorials, and special sessions information and deadlines.



IEEE SENSORS 2021 is intended to provide a forum for research scientists, engineers, and practitioners throughout the world to present their latest research findings, ideas, and applications in the area of sensors and sensing technology.

IEEE SENSORS 2021 will include keynote addresses and invited presentations by eminent scientists and engineers.

#### Topics for IEEE SENSORS 2021 include

- » Sensor Phenomenology, Modeling, and Evaluation
- » Sensor Materials, Processing, and Fabrication
- » Chemical and Gas Sensors
- » Microfluidics and Biosensors
- » Optical Sensors
- » Physical Sensors: Temperature, Mechanical, Magnetic, and others
- » Acoustic and Ultrasonic Sensors
- » Sensor Packaging
- » Sensor Networks and IoT
- » Sensor Applications
- » Sensor Systems: Signals, Processing, and Interfaces
- » Actuators and Sensor Power Systems
- » Sensors In Industrial Practice

#### Focused Sessions

IEEE SENSORS 2021 will have focused sessions on emerging sensor-related topics. Details related to the Call For Focused Sessions are on the conference website.

#### Publication of Papers

Presented papers will be included in the Proceedings of IEEE SENSORS 2021 and in IEEE Xplore pending author requirements being met. Authors may submit extended versions of their paper to the *IEEE Sensors Journal*.

#### Industry Day

A special track designed to encourage industry participation will include industry showcase/demonstrations, industry networking, and an industry panel luncheon. Special flexible one-day registration will be available to facilitate industry participation.

#### Special Issue in the *IEEE Sensors Journal*

A small number of best papers presented at the conference will be invited to contribute extended abstracts towards a special issue of the *IEEE Sensors Journal*. An invitation is not a guarantee of publication but an indication of content desirable to the journal, as well as the recognized quality of the work as submitted to and presented at the conference.

#### Exhibition Opportunities

The Conference Exhibit area will provide companies and other organizations with an opportunity to display and promote products, services, equipment, books, journals, publications, and/or other items to attendees from around the world.

For further information contact Coral Miller,  
[cmiller@conferencecatalysts.com](mailto:cmiller@conferencecatalysts.com)



Please visit: [2021.ieee-sensorsconference.org](http://2021.ieee-sensorsconference.org)

## New and upgraded Members of the NSW branch of the IEEE

For the period from the 1st July 2020 to the 30th September 2020.

### New Fellows

None.

### Life Fellows

None of them too.

### Life Senior Members

Or them either.

### Life Members

Equally thin on the ground

### Senior Members

We have one new Senior Member - Tianruo Lyu

### Members

We have a lot more new members - 193 of them

Arun	Viranga	Abeywickrama	John		Abusafia
Pathum		Afshar	Daniel	Gebbran	Akter
S M	Muslem	Al-Zaemey	Saeed	Jean	Alhadchiti
Philipp		Ali	Debao		Ali
Corey		Alshehri	Yangyang		Anam
Xin		Ansari	David		Ansari
Bradley		Arukgodu	Long		Ba
Cuo		Bahrami	Edstan		Bai
Faiazul		Balu Kavitha	Yiliao		Bartlett
Stephen		Bartlett	Mingyuan	Bahadur	Basnet
Huaming		Begum	Syed Muhammad	Nawazish	Berenjforoush Azar
Luke		Bhagavathiperumal	Abubakar	Sadiq	Bogati
Sara		Bui	Prabal Datta		Burgess
Xiang		Butt	Bahareh		C. Bacilla Ferreira
Ziwen		Camdzic	Ramanan		Castro
Naim		Chamanbaz	Jizhizi		Chee
Nazmus		Chen	Sheik Md Kazi		Chen
Michael		Chorvat	Kioni		Chshipunova
Mathew		Cummings	Joseph		Daniels
Brendan		Darshana	Bhagya		Das
Chixin		Emran	Tung	Javier	Falero



Nathanael		Farahmandian	Hongdian		Fardell
Jiannan		Fernandez	Mina		Fletcher
Gerrit		Ford	Ahmed		Ford
Storm		Fu	Arijit		Fu
Luke		Ghaffari	Kholoud		Gharipour
Logan		Gong	Xiaojing		Gosai
Ram		Guo	Kripa		Guo
Stephen		Guo	Feng	Christian	Gurieff
Sadari		Halloran	Dalin		Haque
Prabhath		Hardgrove	Victoria		He
Pawan		He	Aya		Herceg
Omid		Hodges	Sinthusha		Hooper
Rui		Huang	Renlong		Hussain
Nathan		Hussein	Celso		Hutchison
Elizabeth		Islam	Chang		Ismail
Ashraf		Jacob	Janindu	Nipun	Jayasuriya
Jayson	Priyankara	Jayawardana	Bazara	Samanmalie	Jayawardena
Basit		Jena	Jakov		Jian
Xiangyu		Jie	Peter		Kaafar
Saurabh		Karki	Nadia		Keeratimahat
Madhuvanthi	Paul	Kelly	Dai	Saifullah	Khan
Bikram		Khosravi Roshkhari	Reza		Kong
Bing		Lam	Victor	Dinh	Le
Maleen		Li	Maryam		Li
Jaemmalyn		Li	Dali		Li
Manu		Liu	Claire		Liu
Amin		Liu	Benjamin	Chen	Liu
Robert		Lu	Lingjuan		Lynch
Zawar		Ma	Sajid		Mallon
Farhan		Mamun	Samira	Michael	Mantuano
Ali		Marcelo	Jiahao		McElroy
Gopal		McInally	Song		Meng
Abdur		Mihaljevic	Jason	Justin	Milne
Sriram	Scott Don	Mitchell	Md	Faruque	Mohammed
Kym		Munoz	Hasini		Muralidharan
Chris	Stuart	Murtagh	Brett		Nazrul Islam
Patrick		Ndirangu	Jingwen		Neupane
Yekaterina	Zehong	Ngo	Eleesa	Thi Huyen	Nguyen
Bryan		Pahl	Kye	Vijaykumar	Parmar
Satish	Ybanez	Penan	Duc	Thien	Peracchi
Shengyu	Dominic	Peters	Yongshun		Phillpott
Fang		Phua	William		Pickard
Riwaj		Pokhrel	Andrew		Poursafar
Ratiranjan	Barry Yoo Sik	Prinable	Haoyu		Qu
Steven		R	Phuong		Rahman
Nicholas		Rajabi	Georgia		Rajthala
Kathirgamanathan		Rao	Purshotam		Rasanayagam
Adelle	Gordon Tibaldi	Roberts	Sining		Rouast
Xiaoxue		Rufangura	Amin		Sakib
Guoqing		Sani	Sivasankari		Sani
AlonzoJavier		Schwoykoski	Al		Sebastian
Garrick		Selvaratnam	Jin	Yeong Deep Singh	Sethi
Kevin		Shah	Faisel		Shaham

Yiyang		Sharma	Danny		Sharma
Hossein	Nicholas	Sheaves	Qiming		Shrestha
Jingya	William	Simmons	Komal	Kuber	Singh
Caitlyn		Siu	Klyde	Suleman	Slehat
Mahmuda		Song	Yuxin		Song
Mithra		Stephenson	Abubakar	Sadiq	Stringer
Dominic	Michael	Sturgiss	Natalia	Maduranga	Sudasinghe
Maral		Tan	Jue		Tang
Prabhu Jyot		Tarakson	Chao		Tavallaie
Zeam		Than	Paul		Tonni
Quazi		Tran	Liang		Tubbal
Naomi	Muslem	Uddin	Kairui		Wang
Vivek		Wang	Aman		Wang
Joseph		Wolfson	Rodrigo		Wong
Asanga		Xiao	Shaopeng		Xie
Dagan		Xie	Zhe		Xie
Stefania	Shengli	Xu	Kanyawee		Xu
Yi	Jonathan	Young	Shaher		Yu
Anthony		Zhang	Afroja		Zhang
Angad		Zhang	Mark		Zhang
Zhengyu		Zhang	Grahame		Zhang
Lesley		Zhen	Alan		Zhou
Macleay		Zhu			

### Associate Members

We have three new associate members.

Hoang	Barua	Grant	Luke	Raffe
Hailong	Wang			

### Affiliate Members

We have no new affiliate members

### Graduate Student Members

We have 46 new or upgraded graduate student members.

Matheus		Adams			Alsolbi
Paul		Alkayid	Mohammadreza		Barry
Francisco		An	Yue		Bhargav Madhav
Yang		Baxter	Matthew		Chen
Kaining		Chaki	Shaokang		Coster
Wei		Chow	Pooja	C	Dykstra
Sina	John	Dolphin	Amani		Fattah
Julian		Esber	Alejandro		Galin
Christof		Gagau	Xin		Gupta
Zexi		Gibson	Ishmam		Horry
Raymond		Hattingh	Md Juel	James	

Mitchell		Hu	Noushin		Huang
Shumin		Huang	Zhen	Robert	Keledjian
Yuanxin	Ronald	Lally	William		Lennox
Patrick		Liu	Shakila	M	Mahmood
Swaroop	Ehsanul Kabir	Mamun	Shahzeb		McAtamney
Mengjia	Mark	Mytka	Warwick		Rasool
Lizhao		Schleibs	Michael		Serrano
Dipankar	Daniel	Sparkes	Sheik Mohammad Mostakim	Sun	
Lin		Tooma	Benteng		Usayiwevu
Voon	Yang	Wang	Safdar		Wu
Idrees		Wu	Md	Y easir S.	Xavier
Yikai		Xu	Yee	Yan	Yang
Zhenyu		Zhang			

### Student Members

We have 23 new student members

Storm		Akbarzadeh	Hugh		Arafat
Cameron		Cai	Reza	Antonio	Chen
Robert	Thomas	Doolan	Xing	Eduardo	Enriquez
Zachary		Gopalam	Alain		Hook
Kexu		Hu	Ben		Jacobs
David		Liu	Jonathon		Mayer
Kerry		Rana	Joshua	John	Reilly
Blake		Sabesan	Tim	Allen	Sibo
Wenlang		Singh	Dylan		Slaney
Fang		Stanger	Tian		Xu
Marck		Zhang	Jiaxi		Zhao
Charles		Zigman			

Submitted by Dr. Bruce Poon – e-mail [adsphere@optusnet.com.au](mailto:adsphere@optusnet.com.au)



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Fax: 02 9987 2405 E: [email@adamspluck.com.au](mailto:email@adamspluck.com.au)