

# CANDIDATES' ELECTION STATEMENTS

## **IET Elections 2020**

ELECTION TO THE BOARD OF TRUSTEES 2020 - ORDINARY MEMBER

ELECTION TO COUNCIL 2020 - ORDINARY MEMBER

ELECTION TO THE COMMUNITIES RESOURCING COMMITTEE 2020 - ORDINARY MEMBER (UNDER 30)

Please read carefully before casting your vote.

## Requirements for Trustees

### Skills, Knowledge and Personal Characteristics

- Leadership
- Strategic Thinking
- Decision Making
- Communicating and Influencing
- Representation and Image
- Business Awareness
- Team Working
- Self Management

### Person Specification

Trustees should be able to demonstrate as many as possible of the following skills:

- Understanding and commitment to the Institution and its objectives.
- An understanding and acceptance of the legal duties, responsibilities and liabilities of trusteeship.
- Integrity.
- The ability to make good, independent judgments.
- The ability to develop policy.
- High level strategic thinking and vision.
- Ability to assess performance.
- Ability to think creatively.

- Willingness to speak their mind.
- Ability to work effectively as a member of a team.
- Ability to influence, empower and where necessary lead a team.

Trustees need skills and experience in the following areas:

#### Essential

- Strategic leadership of a global organisation.
- Governance and non-executive directorship.
- Serving the public interest.
- Strategic planning, and monitoring and evaluating performance in commercial and non-profit organisations.
- Policy development.
- Financial management.
- Risk management.
- Influencing stakeholders.
- Public relations / communication / marketing.
- Understanding of the international engineering and technology industry.

#### Desirable

- Legal.
- Diversity.
- Awareness of young persons issues.

## Requirements for members of Council

As a member of the Council you should have:

- an understanding and commitment to the IET and its objectives
- an understanding and acceptance of the duties and responsibilities of Council membership and volunteers generally
- integrity
- the ability to make good, independent judgements
- strategic thinking and vision
- the ability to think creatively
- a willingness to speak their mind
- the ability to work effectively as a member of a team and to accept consensus decisions and act upon them.

Council as an entity needs skills and experience in the following areas:

#### General

- Governance (charity)
- Serving the public interest
- Understanding of the breadth of the international engineering and technology profession.

#### Specialist

- Diversity and inclusion
- Communications
- Representation within a membership body.

#### Desirable

- Understanding of risk management and monitoring governance.

## Requirements for members of the Communities Resourcing Committee

Each committee member should be able to demonstrate as many as possible of the following skills:

- Understanding and commitment to the IET and its objectives
- An understanding and acceptance of the legal duties, responsibilities and liabilities of board member
- Integrity
- The ability to make good, independent judgments
- The ability to develop policy
- High-level strategic thinking and vision
- Ability to assess performance
- Ability to think creatively
- Willingness to speak their mind
- Ability to work effectively as a member of a team
- Ability to influence, empower and where necessary lead a team
- Experience in one or more of the sectors of interest to the IET.

The Communities Resourcing Committee as an entity needs skills and experience in the following areas:

#### Essential

- Strategic leadership of a global organisation
- Governance and non-executive directorship
- Serving the public interest

- Strategic planning, and monitoring and evaluating performance in commercial and non-profit organisations
- Policy development
- Financial management
- Risk management
- Influencing stakeholders
- Public relations / communication / marketing
- Understanding the international engineering and technology industry.

#### Specialist

- Operations experience in a sales and marketing environment at the corporate level
- Working experience in more than one region of interest to the IET
- Good connection in one or two non-UK territories of interest to the IET
- Experience with an international community of people and organisations
- A highly regarded professional stature and credibility
- Good understanding of current IET products and service, and the Institution's operation.

#### Desirable

- Legal
- Diversity
- Awareness of young persons issues.

### SUGDEN, Kate. BSc MSc PhD MIET



M 2007

Deputy Dean for Enterprise and International, School of Engineering and Applied Science, Aston University, Birmingham, United Kingdom

Nominated by the Board of Trustees

Kate Sugden is currently Deputy Dean, Enterprise and International in the School of Engineering and Applied Physics at Aston University.

After completing a PhD on Fibre Bragg gratings in 1996 and spending two years as a research fellow in the Aston Institute of Photonics Technologies she worked in industry for six years in the fibre optics industry. Since returning to academia she has taught electronics, electronic product design, entrepreneurship and team work within the electrical and electronic engineering department. Course design, placements, accreditation and employability have all been an important focus over the years. More recently, Kate has also gained experience in the area of work-based learning and degree apprenticeships and is increasingly working internationally supporting recruitment and partnerships.

Kate has been a member of the Membership and Professional Development Board for six years and Council for five year. During this time she has worked closely with IET employees in the Academic Partnership and Education teams. She has experience of strategic planning and evaluating performance in commercial and non-profit organisations - developed through working in SMEs, higher education and with voluntary groups.

Kate is passionate about widening participation and outreach work and has been known to travel the London Underground with a laser harp to various events in pursuit of these aims.

### WATTS, Alan. BSc CEng FIET



S 1978, A 1984, M 1986, F 1991

Director of Funding, Catalyst, Belfast, United Kingdom

Nominated by David Brown, Nigel Burton, Andy Hopper, Mike Short, John Loughhead, Chris Earnshaw, William Webb, Virginia Hodge, Barry Brooks, Jayne Brady

"I work in innovation. The world our profession inhabits is changing rapidly. Despite the continuing needs of the traditional stable employers such as defence and the utilities, increasingly our members will work in high growth high tech companies. Companies which start-up, grow rapidly by innovating and are acquired or disappear relatively quickly.

Research suggests that new entrants to our profession will have an average of 17 jobs in five different sectors throughout their working lives. Many of the jobs they will do, have not yet even been thought of.

As a successfully exited technical entrepreneur, I now work for Catalyst, a not-for-profit dedicated to building this new knowledge economy in Northern Ireland. I work daily with entrepreneurs at both the earliest and later growth stages. My role is to introduce them to largely London VC funders so I understand the thriving London entrepreneurial scene very well.

The skills and experience of this 'new economy' are vital to assist our Institution to adapt and lead for our future membership.

However I also have a very deep knowledge of the IET. I have chaired my local LN and Engineering Policy Group. Nationally I chaired what was then the Younger Members, the Membership and Professional Development Board and I was an IET Vice President.

I also led what became Governance for the Future which, after an interesting and passionate debate, was voted in by a 92% majority as what is now the governance of the IET.

I believe that innovation is inextricably linked to the future of the IET as technology accelerates all around us. I suggest that my skills in this area, coupled with my deep knowledge of the IET, will strongly assist us to adapt for success."

### JANANTHAN, R (Jana). BScEng MBA-MOT CEng CITP MIET MIEEE AME MCPM JP



S 1999, M 2003

Senior Manager-Commercial Management, Ericsson, Melbourne, Australia

Nominated by Justina Ho, Thejeswi Raghavendran, Janice Man, Mohamad Aly Reza Beeharry, Robert Scarbro, Anandarajah Arooran, Jimmy Fam, Kalpe P Gallage, Sivasaravanabavan Sarveswaran, Savvas Savvides

"It is a privilege and great honour to be nominated to the Board of Trustees as its a crucial important role in the Institution. Being part of trustee team gives me the chance to support the Institution in its strategy and forward planning, and to continue to work with my passion of volunteering. Being with IET since 1999 and engaged with so many local, regional and global committees and board including two terms in Council, it's the time for me to use gained my knowledge and experience with trustee. I've been a member of the Volunteer Engagement Board, of the Volunteer Support Working Party during my time in Council.

My professional work includes roles in the Telecommunications as Commercial Director in senior influencing level. All requiring leadership, financial acumen and a strong understanding of business strategy. My skills include well developed written and verbal communications, such as preparing and presenting papers at International Conferences. I attend customer meetings for technical and commercial negotiations with large telecom operators globally. I have been honored and rewarded few times as high performer by my organisation and institutions.

If elected a member of the BoT, I will be good opportunity for me to support the trustee team significantly as an IET volunteer with my strong working knowledge of how the IET operates. My objectives will include: improving the IET's value proposition, especially as the challenges and opportunities; promote a culture of continuous improvement, developing and supporting ways of capturing the interest of the millennial generation, increasing its brand recognition with young people; supporting STEM activities to ensure children are exposed to engineering as a career choice; enhancing staff, Board, Council collaboration as One Team; ensuring that members views on the IET strategy and direction are heard, reviewed and considered."

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## LIM, Yew Kee. CEng MIET



AM 1986, M 2010

Technical Fellow, LogikHaus Sdn Bhd, Penang, Malaysia; Industry Advisory Panel, Universiti Sains Malaysia, Penang, Malaysia; Adjunct Lecturer, Universiti Teknologi Petronas, Perak, Malaysia

Nominated by Adrian F Pauling, Robert B Heaton, Jiafeng Zhou, Goh Hui Hwang, Kwong Chiew Foong, Yap Vooi Voon, Chan Cheng Loong, Banu Poobalan, Shahrul Bin Kamaruddin, Lee See Fung

Mr Lim is seeking election to the Board of Trustees (BoT). As an engineer and an industrialist, his aim is to contribute and enhance the IET policy and governance that's able to addresses the ever fast paced changing digital world and maintaining as the global multidisciplinary professional's society.

Mr Lim has been actively serving the IET since 2013. He is Chair (2018-2019; 2019-2021) of the IET Internet of Things Network (TN); Council Member (2015-2018); the IET Ambassador to IET China (2016-present); the IET Manufacturing Network (2013-2016); and IPRA (2017-present).

Mr Lim has delivered technical lectures to various professional societies and universities in China (not exclusive), eg International Space Science Institute - Beijing (ISSI-BJ), Royal Society of Chemistry, Institute of Physics (IOP), Beijing University of Posts and Telecommunications (BUPT), Sanjiang University (SJU), and others.

From 2013 to 2018, Mr Lim organised thirteen events (workshops and international conferences), with attendance of estimated one-thousand (1,000) delegates.

In 2019, Mr Lim has organised five technical workshops/programmes, and also as an invited keynote speaker to two international conferences (Toyohashi University of Technology Japan, IGNITE 2019 and Universiti Sains Malaysia, ICVSSD 2019), and we have observed a very significant increase in the overall volume of attendance, estimated of one-thousand (1,000) delegates (international industrialists, researches, scholars, scientists, and STEM graduates) over the course of the year.

With reference to Mr Lim substantial knowledge in engineering practices and thirty years' experience in managing global businesses (Fortune 500 and public listed companies), he is definitely able to bring changes to the engineering policy and practices for engineers in facing challenges from global competition.

In short, the profession and vast experience in the industry and academia of Mr Lim is highly accomplished and hereby seeking your vote to be elected to the IET's BoT.

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## NEEDHAM, Paul Michael. PhD CEng FIET



Age 50. A 1997, M 2000, F 2013

BAE Systems Global Engineering Fellow, Head of Engineering, BAE Systems, Samlesbury, United Kingdom

Nominated by the Board of Trustees

"It is an honour to be nominated by the Board of Trustees to stand for election as a Trustee. A Trustee role is a crucial part of the IET, setting the strategic vision to ensure that the IET remains a forward looking institution and that it remains at the forefront of Engineering and Technology. I hope to use my unique engineering experience and links with both academia and industry to support the IET's vision while promoting and developing young people's aspirations in Engineering and Technology across the UK."

Dr Paul Needham has over 30 years' experience in Aerospace Design and Manufacture Engineering at BAE Systems and has unique international industrial experience under-pinned by academic knowledge. He is a Chartered Engineer, Global Engineering Fellow of BAE Systems, a Fellow of the IET and in 2008 was awarded a PhD in Aerospace Design for Manufacture which achieved an IET Innovation Award and in 2018 was awarded the Engineer of the Year for BAES US programs. He holds the title of Visiting Professor within the School of Computing and Engineering at the University of Huddersfield where he chairs the University's Industrial Advisory Board.

Paul has worked in both the UK and in the United States; his current role is Head of Engineering on the F-35 Lightning II program. He started his career as an apprentice with BAE Systems, the combination of part time academic study and research with his extensive industrial engineering knowledge has made him one of very few people to have this combined experience within the UK's Engineering field.

Paul has established strong links with both academia and industry and has mentored many engineers in their career and journey to becoming professional registered, both within BAE Systems and in his role as a Professional Registration Advisor (PRA) within the IET.

### MacGILLIVRAY, Ian. BEng CEng MIET



M 2004

Systems Engineer and Consultant, Malaga, Spain

Nominated by Eric Miller, Virginia Hodge, Adrian Whyntie, Richard Moore, Adrian Oldknow, Dolores Byrne, Peter Coulson, Rod Passingham, William Biggs, Jon Older

"Reading this you presumably believe in the IET, our profession and the role both can play in helping global society overcome key challenges. I am standing for election to Council to play a part in ensuring that our Institution is as well placed as possible to fulfil this mission, especially through better engagement with its membership and a more coherent volunteering ecosystem."

For many years I have been involved with the Solent Local Network in England, which I am now proud to chair. We managed to significantly increase volunteer engagement in 2019 but it is not easy. Too often I hear doubt from members about the value they get from the IET, and closer attention needs to be paid to this. I also believe some fine-tuning and modernisation of insights and practices can enhance how the Institution harnesses its latent talent and engages with the public and other key audiences to better realise its collective and international potential to inspire, inform and influence.

I am a Chartered Engineer, familiar with a broad range of engineering and technology disciplines, having enjoyed a 27 year career in the Royal Navy. Latterly I headed up the Design Authority for the complex systems of systems that constitute the fighting capability of all the Navy's frigates: performance, design integrity and safety covering sensors, information systems and weaponry.

As well as understanding technical complexity, I also see critical interfaces and solutions in an enterprise context; where people, processes and information count just as much. I possess the competencies required of a member of Council - such as around strategic thinking, independence of thought, communications and governance - and now seek to work with colleagues to optimise engagement with members and volunteers, and help ensure the IET delivers the most relevant and impactful outcomes possible, worldwide."

### SPYROU, Aikis. CEng MIET



Age 38. S 2001, M 2005

Business Development Manager, Aquiver Capital, Nicosia, Cyprus

Nominated by Xen Christodoulou, David Hogan, Ray Piggott, Ian Phillips, Richard Spalding, Jon Ratcliff, Michele Fiorini, Ali Hessami, Peter Ward, Muthamizhchelvan Chellamuthu

"Currently entering my 19th year as an IET (& IEE) member, I have been through the ranks of the Institution, always trying to add value, support current and empower future engineers."

During these years, I have accumulated knowledge and skills that allow me to support and help fellow IET volunteers and members, now as an IPRA, PRI and mentor. I am confident that I am in a position to leverage my know-how and experience for the future development of the Council and subsequently the IET.

My expertise at the international community coupled with my knowledge at the UK level as a previous Council and Volunteer Engagement Board member, would be greatly utilised in addressing the changes that have been taking place; hoping to improve the IET both internally and externally.

My current role as the Education Officer of the Cyprus LN has shown me that as IET we need to engage more, invest time and effort with the age group 5-19 and inspire them to make a difference - be an engineer.

I strongly believe that refreshing voices with new and international ideas will further enhance the new IET and the new way forward for the Council and the IET, on the UK and international frontier."

### KADALI, Kalyan Sagar. BTech ME MIET



M 2010

Assistant Professor, Shri Vishnu Engineering College For Women, Bhimavaram, Andhra Pradesh, India

Nominated by S Savvides, N P Kumar, G Pandian, S Cloudin, S Prabhuraj, D Menaga, T Anuradha, V Jayasankar, S Gurusami, J Mohanraj

Mr Kalyan Sagar Kadali graduated from JNT University and ME, from Anna University and acquired 10 years experience as Assistant Professor at various Colleges and Universities. His enthusiasm in teaching and the association with IET as faculty advisor that made everything else secondary.

Kalyan has been an active IET volunteer since 2010. It is commendable to record the contribution made by establishing a new IET student chapter in Andhra Pradesh (Southern part of India) in the year 2014 where there is no fragrance of IET network so far and in one of the largest states in India in having around 700 Engineering colleges. He initiated six student chapters in various colleges in Andhra Pradesh state and organized many IET events with the enlargement of IET student and professional memberships. He elected as an ordinary member of Council during 2014-17 and contributed to IET Knowledge Services Board. He believes he would bring skills to the board to be a mentor and a role model for future engineers under the roof of IET. His contribution will really be instrumental in steering the IET to new and greater heights.

He would be champion for further developing the breadth of the Institution, while maintaining a focus for the energy sector to address issues of fundamental importance to society. He would be fortunate enough to be elected to the Council as he would bring his experience and enthusiasm to further support the IET in the formation and delivery of its strategy and to ensure the Institution for overall success by shouldering the responsibility.



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## HO, Chun Yin Justina. BMath MSc LLB MIET



M 2002

Director, Talent Wealth Group Limited; Executive Director, Institute of Big Data Governance, Hong Kong SAR; Research Fellow, Lingnan University STEAM Education and Research Centre, Hong Kong SAR

Nominated by K F Tsang, C K Lau, Francis Fung, Jolly Wong, W I Ho, Heather Lam, Wallace Poon, Alex Lai, T S Wong, Cheuk Nam Chang

Justina is a Systems Engineer with her Engineering Consultancy Firm and works with industry leaders to set best practices for big data governance principles in order to facilitate data exchanges, data trading and cross border data flow.

She had been the STEM Programme Coordinator for IET Hong Kong, localizing 20 years of IET STEM works and researches for Hong Kong and establishing local STEM programmes, such as the HK STEM Task Force, HK STEM Ambassador Programme, and STEM 4 Girls Programme. She is also a Research Fellow of the Lingnan University STEAM Education and Research Centre and the Honorary Secretary of Smart City Academy.

A strong preacher of ED&I, Justina helped the IET Young Woman Engineer of the Year Award to launch in Hong Kong for the first time in 2019, celebrating accomplished local young woman engineers and encouraging them to become role models for young girls with talents in the STEM subjects.

Having been a committed IET Volunteer in both HK LN and the Council for years, it has become her mission to help IET to reach out to different regions and culture, and to address local concerns with IET's global visions. Currently an IET Council Member and the Vice-Chairlady for the IET HK LN, Justina is in the Council Monitoring Governance Working Party. Moreover, she has the privilege to work with different teams on globalization issues for IET the last couple of years. If re-elected into the Council, she wishes to continue spreading IET's messages to different parts of the world.

For the Hong Kong industry, she is in the Cyberport Entrepreneurship Centre Advisory Group and the Industry Training Advisory Committee of Hong Kong Government Qualifications Framework. Moreover, she has received the Hong Kong Elite Professional Ladies 2017 Award in recognition of her works for the industry.

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## PHILLIPS, Ian. BSc CEng FIET FIMA SMIEEE



A 1974, M 1977, F 1996

Retired, Plymouth, United Kingdom

Nominated by Steve Beaumont, Andrew Brown, Simon Moore, Steve Furber, Peter Harrod, Alex Yakovlev, Robin Saxby, James Urquhart, Peter Walters, Alkis Spyrou

"I left school at 15 without formal qualifications to undertake a four-year Electronic Apprenticeship with the MOD, leading to a First-Class Honours Degree in Electrical and Electronic Engineering from Swansea University in 1974. Over my next 42 years (the heyday of Moore's Law), I worked in microelectronic design, its methodology and management; for Pye TMC (becoming Philips), Plessey Semiconductors (becoming GEC) and finally for 18 years in the Research Department of ARM Ltd. Cambridge, as Principal Staff Engineer. There my focus was emerging Electronic Systems technologies, the role of Research in a Business context, Technology-IP as a business, and the needs for Education and Professionalism.

A member of the IET since 1974, I served on the ICT Sector Panel in 2003/4, but with my corporate backing had greater impact in direct relationships with UK Universities, Industry Associations, SMEs, and UK/EU Research funding bodies.

On retirement I was elected to Council in 2017 and am in the final year of my first term. I believe our Engineering Professions are in danger of being wholly discounted in the (UK) public eye. They are generally unaware of the many and varied roles we play in society and the economy, with politicians and media depicting us as a failed community in the UK. So, I want to help correct this wrong; for the public to understand and value the opportunity we present; and to have confidence in our professionalism. I consider the best way for me to contribute my experience and passion to this end is through IET Council, and to that end have already had some notable success ... but to complete this work I must call on your support for a second term."

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## MARSH, Carol. EngD CEng FIET FIES FWES FRSSA SIEEE MInstP MIACR



Age 56. M 2005, F 2012

Deputy Head of Electronics Engineering, Leonardo, Edinburgh, United Kingdom

Nominated by the Board of Trustees

"I graduated with an HND in Electrical and Electronic Engineering from Napier University in 1985, then worked in the aerospace and telecommunication industries for 20 years. I returned to university and was awarded a degree of Doctor of Engineering in System Level Integration from Glasgow, Edinburgh, Heriot-Watt and Strathclyde Universities in 2011. I am now the Deputy Head of Electronics at Leonardo and have enjoyed 35 years working in the field of Electronics, specialising in programmable logic.

I wanted to give something back to engineering, so I became a STEM Ambassador, running an annual event for Primary School girls. I joined the Women's Engineering Society and was President from 2013 until 2014. I've also have several roles within the IET including Chair of IET Scotland, Past Chair of SSE LN, Member of the Engineering Policy Group Scotland, Professional Registration Advisor and Interviewer, and an IET Fellow Assessor. I am the winner of 7 awards and was shortlisted for a Promotion of Gender Balance award. While it's fantastic to be recognised for the voluntary work I do, I do it because I believe I can make a difference. I have organised many events including the IET Scotland Dinner. I've collaborated with other institutions to promote engineering to the public, which I think is important.

It is a privilege to be nominated by the Board of Trustees and if elected I would like to continue to raise the profile of engineering, focus on the IET members (since they are the heart of the IET) and finally be involved in celebrating the 150<sup>th</sup> birthday of the IET."

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## TAN, Teng Hwang. BEng MSc PhD CEng MIET



Age 36. S 2013, A 2013, M 2014

Principal Engineer, Technology Development Department, SilTerra Malaysia Sdn Bhd, Penang, Malaysia

Nominated by the Board of Trustees

John Tan is an active member of the IET Malaysia Local Network. He is also the executive committee member of IET Internet of Things TPN. John was awarded a Queen's University Belfast Studentship to advance to his PhD in Electrical and Electronic Engineering which he completed in 2014, designing novel pressure sensor for industry application.

John started his career working as process development engineer in UK in the field of semiconductor in 2008. Then, he worked as a lecturer and subsequently promoted as the Head of Department at UCSI University in Malaysia. Currently, he worked as Principal Engineer in one of the largest wafer foundry in Malaysia, researching on next generation sensors for emerging technologies. He is an IET Chartered Engineer since 2015.

John has joined IET Malaysia Young Professionals Section (YPS) since 2014. He was the organising Chair for twice Present Around The World (Malaysia level) in 2015 and 2017. In 2017, he was elected as the Chair of YPS Malaysia. He managed and inspired 14 IET On-Campus Groups in Malaysia and led a team of 14 highly committed and active YP volunteers. Under his leadership, YPS Malaysia has grown strength to strength, in terms of number of events organised, recruitment of members, engagement with student members (On Campus) and etc three new On Campus was formed.

He initiated IET Faraday Challenge in Malaysia. He has promoted STEM using BBC Microbit in various secondary schools. He was invited as judge for F1 in Schools competition (South East Asian International Schools). In year 2018, he was the recipient of prestigious IET Award: IET Paul Fletcher Achievement Medal for his leadership and contribution in promoting STEM internationally.

John is very passionate about education, professional development and membership drive. He is committed to inspire, inform and influence the global engineering community.

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## VISHWAKARMA, Suresh. MBA PhD PEng CEng MIET



Age 52. M 2003

Senior Engineer, ZE Power Engineering, Vancouver, Canada

Nominated by Madhuri Joshi, Dayaram Sonawane, Joyanta K Roy, Anil Yadav, Mohammad Zeeshan Khan, Mariusz Baginski, Imran Shafique Ansari, Shankar Revadala, Ajay Kulshreshth, Gangadhar Shetty Kojapady

Suresh holds a degree in electrical engineering, MBA, and PhD in Management (Power). Suresh has held senior engineering and managerial positions in public utility companies since 1988. He is currently Senior Engineer for an engineering consulting company providing services to BC Hydro in Vancouver. He has authored 35 conference papers and journal publications in America, Canada, the UK, and many African countries. His postdoctoral fellowship proposal is currently under consideration.

Suresh is an IPRA and an active member of Western Canada LN since 2012. He is currently the Chairman of Western Canada LN, member of Communities Committee Americas, and the IET Representative for Western Canada. Suresh helps in organizing technical presentations every month and other network activities. Suresh has successfully organized IET's seminar in Vancouver on "Corporate Social Responsibility" in Sep 2018. He is now organizing another IET's seminar on "Artificial Intelligence" in Vancouver in Jan 2020.

Suresh mentors Chartered Engineer and Professional Engineer aspirants in Western Canada. He organizes IET's annual PATW and IMechE's annual SoFE competitions in Vancouver. He is organizing IMechE's SoFE Regional final in Vancouver in January 2020. He has attended IET Americas CVC 2017 and 2019.

"After working for almost 32 years in Canada, Seychelles, and India, I have gained a valuable insight of IET's activities in different regions. I can see a huge potential for IET to collaborate with industries and academia to promote its activities in new and less populous regions. Students and researchers worldwide can benefit by associating with IET. If elected to Council, I will work hard to increase IET's visibility in all regions. I will explore additional ways to facilitate members in promoting and participating in IET activities. I will promote effective communication among all communities. I will remain committed to one-team working with integrity, excellence, and teamwork."

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## BRYAN, Kerrine. MEng MBA CEng FIET



Age 38. S 2001, M 2005, F 2018

Lead Power Systems Engineer, WSP USA, New York, USA

Nominated by the Board of Trustees

After graduating from the University of Birmingham in 2005, Kerrine's work has taken her around the world, with her current role being a Lead Power Systems Engineer with the New York-based power generation group of WSP. She leverages her own professional work to educate and empower others. As a passionate STEM advocate she volunteers time with various organizations that support the education and empowerment of children from diverse backgrounds.

Kerrine has volunteered with the IET in various roles including: Younger Members Committee member; Mentor; and most recently Secretary for the New England Network covering 8 states in the North East United States.

Having worked in the energy sector for 14 years she is conscious of the changing needs of society and is a founding Board Member of the Social Justice + Engineering Initiative, implementing engineering practices that promote social and environmental justice and overall sustainability.

She is the co-author of a series of children's books devoted to overcoming gender-based career stereotypes, and she has collaborated with major organizations including the British Army and London Fire Brigade to advance her message. Kerrine's work has been profiled in print, radio, and television outlets, including the BBC, Financial Times, and Harper's Bazaar.

"My mission to educate and inspire children is rooted in my own experience as a young black woman in the UK trying to find my own path. Along the way, I realized that various misconceptions about who engineers are, and what they do, presented barriers not only to myself, but to countless others like me. The IET's strategic priorities align strongly with my own personal mission and is why I have remained a member and active volunteer with the IET for over 18 years. If elected, I would work to increase awareness of the IET and its work internationally."

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## O'BRIEN, Dean. MEng MIET



Age 30. S 2007, A 2012, M 2013

Electronic Design Engineer, Naim Audio Ltd, Salisbury, United Kingdom

Nominated by Chris Rundle, Colin Finney, Dave Miller, Gordon Dixon, Ivan Ling, John Harvey, John Holloway, Jon Baker, Jon Whitehurst, Neil Turner

"As engineers, we ultimately find solutions to problems, and this positions us at the forefront of the challenge to create a more sustainable world. I am passionate about helping the profession to progress towards this, and I would love to be awarded the opportunity to help drive the IET towards supporting the UN's 17 sustainable development goals. As Engineers, we can improve everything we work on, and therefore together we can engineer a better world."

I have been a member of the IET since 2007. I began volunteering for the Solent local network in 2012 and have held several positions on the committee including leading the Young Professionals team for several years and I currently chair the events team. During this time I have also volunteered for STEMNet at a local level, helping to develop and deliver events in schools to inspire the next generation of Engineers, in 2014 I was nominated for a national award for contribution to STEM.

I work for a UK manufacturing SME, designing precision HiFi equipment, yet started my career in a global Engineering company. I feel this varied experience has given me a great perspective on companies of differing scale, and has allowed me to see what companies of differing size may be able to do to increase sustainability, and reduce the profession's impact on the planet."

Dean completed a Masters degree in Electronic Engineering at the University of York, attaining First class with honours, during this he also attained a 12 month internship with MBDA UK Ltd. Dean started his post-university career with BAE Systems on their Graduate Development programme, going on to work across multiple disciplines, teams and locations. He now works for Naim Audio Ltd, a company developing world leading HiFi and audio products, with manufacturing on site in Salisbury UK.

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## WHITCHER, Tim. BEng MBA CEng MIET SMIEEE



Age 33. M 2007

Deputy Service Leader (Digital Railway Services) & Head of Future Ready Rail, WSP, Bristol, United Kingdom

Nominated by Michael Stubbs, Steve Denniss, Ryan Miller, Ross Dunsford, Tom Palfreyman, Dinu-Cristian Balan, Patrick Bradley, Mikela Chatzimichailidou, Tom Endersby, Nick Bailey

Tim holds a BEng(Hons) in Electromechanical Engineering from the University of Southampton, a certificate in Systems Engineering from the University of Oxford and an MBA from the University of Leicester. He has been a Member of the IET since 2007 and was awarded Senior Member of the IEEE in 2019.

He is an engineer and technologist who has spent much of his career in the rail industry. He has worked for technology companies and consultancies, SMEs and multinationals, and been involved in introducing some of the most advanced systems on the network both in the UK and overseas on projects in The Netherlands, UAE and Australia.

Currently, Tim is the Deputy Service Leader for Digital Railway Services team at WSP, helping grow their Digital Railway technology team; and is the Head of Future Ready Rail for WSP in the UK - leading the Rail division's response to global and societal challenges from climate change to demographic shifts and combatting loneliness.

Tim has been an active member of the IET previously serving as Industrial Representative, Mentor and Lecture Committee Member. Most recently, he has served two years as Vice Chair of the Swindon Local Network (2017-2019), Member of the Rail Technical Advisory Panel (since 2019) and is the current Chair of the EngTalks Committee (2017-Present).

As Chair of the EngTalks Committee he is a member of the Knowledge Services and Solutions Board and has led the transition from the Prestige Lecture format to the new EngTalk format; a transition which has seen audience numbers grow, more young people and early career engineers engaged, and the first sell-out events in the series history.

Tim believes engineering is both an art and a science and that at every level it should connect with people, respond the challenges we face and above all inspire.

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## STOJKOVSKA, Biljana. PhD CEng FIET



M 2011, F 2019

Innovation Manager, National Grid Electricity Transmission (NG ESO), Warwick, United Kingdom

Nominated by Russell Simpson, Shurooque Baloch, Inmaculada Martinez Sanz, Antony Johnson, Ian Lee Nuttall, Mark Alan Horley, Craig Dyke, Jayaraman Ramachandran, Rob Wilson, Bridgit Hartland-Johnson

"I am a passionate engineer and would be proud to take part in shaping the future of the IET as a member of the Council."

I have supported the IET at the beginning of my career as a researcher at Imperial College, London. I achieved Chartered Engineer status when I moved from academia to the energy industry (National Grid) and last year it was my honour to become a Fellow.

At National Grid I lead an innovation project between, a partnership with distribution company UK Power Networks, to bring together a diverse group of small generators (solar, wind and batteries) to deliver services to the network operators. This shows my ability to work across a broad range of stakeholders to shape the future.

Throughout my career I have held the mission of the Institution to promote and support the role of engineers in the UK close to my heart. In recent years, I have actively supported the IET serving as a member of London Energy Sector Executive Group and a member of Birmingham IET group.

I am also a great believer in the benefits given by a diversity of ideas and I feel I can bring a strong voice for younger female engineers to the Council. I have already achieved great success with CIGRE, chairing the Women's Network and sitting on the UK executive committee - my participation on the IET Council will bring further opportunities for the two organisations to work together.

The opportunity to join the IET Council at such a pivotal time is incredibly exciting. As we move towards a zero carbon energy future there are significant changes to the technological, commercial and social environment ahead, with the role of the Institution more important than ever."



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## AJITH CHARDRAN, Ashwin. BEng MSc IEng MIET



Age 26. A 2016, M 2016

Project Engineering Manager, BAE Systems, Portsmouth, United Kingdom

Nominated by the Board of Trustees

Ashwin became a member of the IET upon joining BAE Systems as a Manufacturing Graduate Engineer in 2016. Prior to joining he had completed his BEng(Hons) in Mechanical Engineering from Heriot Watt University and MSc in Manufacturing Engineering and Management from University of Nottingham.

At BAE Systems as a Young Professional in the Military Aircraft Division, Ashwin had the good fortune to work across a wide variety of projects both in the UK and India which focused on developing new technology, delivering a new capability in a strategic international market, creating a companywide engagement strategy to address grand challenges and very recently within the Maritime Naval Ships business, delivered a collaborative solution spread across multiple programmes. Currently, he is working as a Programme Manager based at Portsmouth. This role sees him responsible for leadership and performance management of a cross functional team and accountability to the business level leadership team.

Over the course of his professional career he has maintained a strong association with Young Professionals within the company and industry to understand their developmental needs as they progress through early years of their career as well as the challenges that they are having to face. This awareness coupled with his experience working and delivering in complex programme environments would definitely allow him to make a positive impact representing Young Professionals at the IET Council. Above all, he hopes to give something back to IET and the industry by giving his time to constructively challenge and help mould key decisions by highlighting the views of Young Professionals.

Ashwin is also an avid IET volunteer. He is a Young Professional buddy, Professional Development Mentor and IET Solent Local Network Committee member. Longer term he aims to become a Fellow at IET and join the Board of Trustees.

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## CARTWRIGHT, Christopher. MEng CEng FIET



S 1995, AM 2000, M 2002, F 2019

Partner, Head of Utilities, Capita Consulting, London, United Kingdom

Nominated by the Board of Trustees

"It is a privilege to be nominated by the Board of Trustees to stand for election to Council from October 2020. The Council member role sits at the heart of the IET and doing it would give me the chance to influence improvements and development on behalf of members.

Having joined the IEE immediately after leaving school, I have now been a member of the IET for over twenty-five years. During this time, I've held many volunteering roles and continue to find new interest groups and innovative thought leadership forums. Key volunteer roles I've held include: Treasurer of the London Network, Chair of the Digital Panel, Member of the Energy Panel and member of various specialist working groups.

In my professional life, I am currently a Partner and Head of Utilities at Capita Consulting. To be successful in my role I need to bring together different organisations within the Energy and Utilities ecosystem - Government, Regulators, various Industry Suppliers. As an active member of the IET, I am able to bring industry issues to the IET's various forums and committees to provide a viewpoint on behalf of the profession. Prior to working at Capita, I have held roles at Capgemini, Infosys and the Ministry of Defence.

The Engineering and Technology profession continues to undergo exponential transformation and it's a pleasure to be part of this as an active volunteer at the IET. I welcome the opportunity to offer deeper influence as a member of Council."

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## LENIN FRED, A. BE ME PhD MIET



Age 46. M 2015

Principal, Mar Ephraem College of Engineering & Technology, Marthandam, Tamilnadu, India

Nominated by M Marsaline Beno, S Joseph Jawhar, P Jomole Joseph, R Bright Reginold Raja, R P Anto Kumar, D Judson, S Selva Pradeep, S Julyes Jaisingh, M Manoj, J M Aravind

Dr A Lenin Fred obtained his BE and ME in Computer Science and Engineering from Madurai Kamaraj University, India, and completed PhD in Computer Science from MS University, Tirunelveli, India, in 2010. He is an eminent scholar, teacher, researcher and administrator. He has received around 6 Crore INR for various projects from funding agencies such as DST, ISRO and so on. He has filed for 4 patents.

He has been an active IET volunteer. He was Chair of the IET Kanyakumari Local Network, India for 2 years. He was actively involved in organising PATW South Asia Finals in 2019 and PATW local finals for last four years.

He is a highly committed and experienced leader of IET activities, still serving as an active volunteer, who is passionate and enthusiastic about the future of our IET. He has been serving as the General Chair, Member Organising Committee, Keynote Speaker and Secession Chair of multiple National and International Conferences. He received Dr A P J Abdul Kalam best researcher award from IET Kanyakumari Local Network, India.

"If elected, I will actively involve in strengthening the volunteer network, membership and global communities, ensuring that the network and communities are adequately supported through the right support mechanisms. I would strive to serve the members of the Institution in all aspects. I will build IET based on the success of the past, while delivering an Institution that is acknowledged globally, as an exemplar of governance, knowledge sharing and vision."

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## MURPHY, Orla. MEng MSc APMP CEng MIET



Age 30. M 2014

Software Change Robustness Manager, Jaguar Land Rover, Gaydon, United Kingdom

Nominated by Ross McMurran, Nick Shuttleworth, Anne Tweddle, Simon Brook, Emma Goulding, Derrick John Willer, Will Stuart, Colin Davis, Amber O'Connor, Graham Prebble

Orla was the winner of the IET Young Woman Engineer of the Year Award in 2015 and is an active member and recent Chair for the IET Coventry and Warwickshire Committee. She has been widely involved with the activities of the IET at a local and national level, as an engineering ambassador, STEM public speaker, judge, mentor, facilitator and volunteer.

If elected, Orla would like to focus her effort on strengthening and supporting IET Local Networks. She would like to further engage with members on topics such as the engineering skills gap, sustainability and the future of engineering. Finally, she aims to encourage greater involvement of younger engineers within the affairs of the IET.

Orla has a Masters of Engineering (MEng) in Electronics with Music and a Masters of Science (MSc) in Engineering Process Excellence. She works at Jaguar Land Rover where she has held multiple roles in Audio, Quality, Transformation and Software. She is currently the Software Change Robustness Manager in the Electrical Engineering department. She is a Chartered Engineer with the IET and a Black Belt Six Sigma problem solver.

Orla has received notable recognitions for her work as an engineer. She was the Design Engineer of the Year 2018 (British Engineering Excellence Awards), was in the Top 50 Women in Engineering 2017 (The Telegraph & WES), was The Young Pioneer 2016 (The Manufacturer Top 100 Awards), and was awarded the Royal Academy of Engineering and Engineers Trust Young Engineer of the Year in 2016. She has showcased her work as an engineer through her blog and public speaking, as well as in the media where she featured on the "Born to Engineer" and "This is Engineering" Campaigns. She always represents engineering in a positive light and aims to encourage more young people to consider engineering careers.

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## BARRATT, Ashley. BSc MBA CEng MIET MIAM



AM 1988, M 1995

Founding Partner and Director, ATS, Frankfurt, Germany

Nominated by John Scott, Richard Cooke, Mike Dalton, Andy Hastings, Duncan Humphries, George Milne, Martin Nolan, Joseph Inniss, David Rayworth, Andrew Stevens

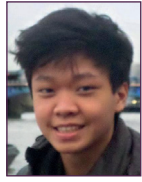
Ashley spends his professional life building infrastructure and transforming organisations. This requires investment in human, technical and financial capital. His skill is in building successful people, teams and organisations. He has a proven ability to work with leaders across multiple sectors to build consensus, align people, process and technology, and to deliver productive change.

Ashley has been a Member of the IET for over 30 years and believes that the Vision and Strategy of the IET provide an excellent platform to actively propel both our profession and society forward. The implementation of the Strategic Plan requires ongoing attention and especially commitment by Members and Fellows to secure the IETs ongoing success. Ashley's nomination is motivated by a simple desire to promote greater inclusion into the development and delivery of the IETs work.

Ashley's professional life often takes him to the edge of technology. A sense of possibility drives him. His love for developing positive outcomes fires his professional practice. Ashley believes passionately that people matter, he holds various mentoring, coaching and advisory board commitments and values the personal learning which results. He uses his voice to advocate for more diversity in organisation and to foster greater participation for youth.

Ashley is currently a Director of ATS a project management consultancy serving the Tech Sector, Associate Partner at meliorate a strategic and organisational consultancy for serving the Infrastructure Sector and Head of Business Development at CET Connect a service provider building Digital Infrastructure across Europe, the Middle East and Africa.

A British New Zealander now living in Germany Ashley appreciates being immersed in different cultures and being able to develop his skills in Cultural Intelligence.

**LING, Ting Rang (Peter).**

S 2015, A 2019

Student, Swinburne University of Technology, Sarawak Campus, Kuching, Malaysia

Nominated by Chua Hong Siang, Indiran Nadarajan, Ling Ting Yang, Tan Teng Hwang, Tsen Xin Hui

Peter Ling is actively involved in the IET, currently serving in IET Malaysia Young Professionals Section. He was the President of Swinburne Sarawak IET (SSIET) On Campus. Under his leadership, the SSIET team had been named winner of IET On Campus Group of the Year Award (GOTYA). In 2015, he represented Asia Pacific in global final of Present Around The World (PATW) competition held in London, after winning the regional and national rounds in Beijing and Kuala Lumpur, respectively.

Peter completed Bachelor of Engineering (Electrical and Electronic) (Honours) at Swinburne University of Technology Sarawak Campus under a full scholarship awarded by the state government. He was the President of student council, implementing various innovative approaches to improve student life at his university. His most recent achievements (in 2019) include IET Malaysia Best Paper Award at International Conference on Smart Community & Industry (ICSCI), IET Control & Automation Technical Network Malaysia Chapter Best Final Year Project, 1st Runner-up in Ericsson Hack for Good, 2nd Runner-up in Airbus University Innovation Fun Day Competition, and 1st Runner-up in Innovate Malaysia SAINS Design Challenge. He was selected for an internship at ViTrox Corporation Berhad, where he developed algorithms for automated vision inspection system.

"The Communities Resourcing Committee (CRC) is one of the crucial groups in the IET, responsible for setting the direction for all local and technical communities. If elected, I will contribute in leveraging resources so that every community within the IET family, no matter large or small, could enjoy the best IET experience ever."

**DURAI, C Gigin. ME MIET**

Age 27. M 2020

Assistant Professor, Mar Ephraem College of Engineering and Technology, Thuckalay, India

Nominated by A Lenin Fred, M Manoj, J M Aravind, Amruthya Nair, S S Selva Pradeep

Mr C Gigin Durai holds a degree in Mechanical Engineering and a Masters in Manufacturing Engineering from Anna University and MBA in Human Resource management from Annamalai University, India. Presently, he is working as Assistant Professor in Mar Ephraem College of Engineering and Technology. He is in teaching profession for the past five years.

As the member of IET, he coordinated the Technical Symposium in Kanyakumari Local Network level in 2019. He had guided a student team to Finale in South Asia Level Nurturing Intelligence for Curious Engineers (NICE) event organised by Mumbai Local Network, India in October 2019. He had received the Dhronacharya Award of Excellence for mentoring the student race bike team which won first prize in State level event Moto Rage - 2017. Through his mentoring, two student teams had won and secured the top ranking in the National Level Race Car Competition 2018 & 2019.

He coordinated a State Level Technical Project Expo for the budding engineers in March 2018. He has taken numerous efforts to take Science and Technology to unreached society of Kanyakumari district. As a part of it, he had coordinated the Science communication project for the tribal students of Kanyakumari district for a period of one month during May 2019, which was funded by DST, Government of India.

He is the technical motivational speaker for Puthiyathalaimurai Kalvi.

"I believe that IET is an excellent platform to engage young engineers and drive ideas to solve problems. Hence to create a technological transformation.

By being part of CRC, I wish to achieve the following visions:

1. Communicate with every community to understand their needs for growth.
2. Enhance the link between the IET communities across the globe.
3. Identify and establish potential new-emerging local or technical communities."

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## ELEGBEDE, Samuel. CEng MIET



Age 25. S 2015, A 2016, M 2016

Telecommunications and Control Engineer, WSP, London, United Kingdom

Nominated by Kevin Unwin, Ashley Rowe, Bethany Presgrave, Zoe Buss, Alex Catley

Samuel is an energetic and enthusiastic Chartered Telecommunications engineer who has shown excitement and commitment to learn and has immersed himself in full-consultant responsibilities early in his career. He has been diligent in planning, designing and delivering rail telecommunications service on a large and complex rail and highways projects. His drive for staff development was recognised by WSP as he was awarded and honoured the national People Passional Award.

He focused on researching and presenting innovative designs to the client which integrated new technologies with existing led him achieving chartership with the Institution of Engineering and Technology at the age of 25.

Samuel is a key team player, using his excellent networking and communications skills to connect people internally and externally of his company. He always goes the extra mile to support others to achieve their goals.

He understands to better engineers we need to challenge ourselves. Samuel seeks out opportunities to educate university students and young professionals about engineering.

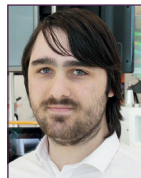
Samuel's dedication to development was recognised at the Association of BME Engineering award, as he was awarded the Young BME Professional 2018. His enthusiasm and collaborative skills gained him a position within the board of committees within the organisation to help with strategies in improving diversity in engineering.

Many young professionals struggle to progress in the industry; he is currently the IET Liaison Officer for the Institution of Engineering and Technology London Network. He is part of forums to discuss industry matters which he then presents them the IET Young Professionals Community Committee while liaising with other institutions.

He has been invited to many panel especially the Royal Academy of Engineering Engagement programme expert panel where he shares his engineering experience and educate students about professional registration with the IET.

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## CHAPMAN, Jack.



Age 21. A 2017

Embedded Electronic Engineering Apprentice, Renishaw plc, Wotton-under-Edge, United Kingdom

Nominated by Andrew Vickers, Barry Brooks, Andrew Short, Joseph Morritt, Pete Leonard

Jack is studying for a BEng in Electronic and Computer Engineering at the University of the West of England, through a degree apprenticeship at Renishaw. He completes his degree part-time through day-release and works on embedded software and electronics design tasks through work placements.

Jack has demonstrated leadership and organisational abilities through his assistance with the reorganising of the Embedded Apprenticeship scheme at Renishaw. These changes were made to improve the existing scheme, and to make the experience gained better match the assessment criteria in the apprenticeship framework.

Since being awarded his IET Horizons Bursary in 2018, which is sponsored by The Engineer's Trust, Jack has been getting more involved with the IET through IET Open Houses and Technical Professional Network events, among other opportunities. Jack hopes that he can look at encouraging more involvement with the IET from those that may have find it more difficult, for example due to a more rural location. He is currently hoping to complete his chartership through the IET, after the completion of his apprenticeship.

Jack enjoys volunteering at STEM events, often helping at school careers fairs and Big Bang fairs, among others. He also volunteers as a leader at Sea Scouts, giving young people the opportunity to take part in activities that they may not otherwise be able to do, and has even completed the IET Scouts Electronics Badge with his troop. Jack believes the IET plays a crucial role in helping to promote STEM to young people, encouraging them to pursue a career in STEM. He sees continuing the support of initiatives such as the FIRST® LEGO® League as extremely important and will also continue to support the partnerships that the IET forms with other companies and organisations that result in events such as the IET Open Days.