

Message from the Chair

Change can sometimes be a good thing. As we approach the end of the current session, some of you may be moving on to concentrate on new endeavours, or assuming new roles within your committee in the next session. As YP volunteers, there will always be issues that prevent us from working together more often, but there has to be more effort on our part to improve engagement and openness within the YP Forum.

Among the many tasks that the YPCT does is organising global challenges. The Present Around the World competition started out small at first, and now it is an international contest. We are hoping to produce more of these global challenges as part of our annual YP activities, in which all YP's can participate and grow as individuals. As the YPCT rolls out new global challenges in whatever form later, we hope that you will contribute towards its success.

If you have experienced lack of support as new committee members in your YP Section, write to us at youngprofessionals@theiet.org. We will put you in touch with the right people (staff or volunteers) to help you out. For those of you who are seasoned YP volunteers, we ask that you send us a write-up of your volunteering experiences as an executive committee member so that we can collate this information and share it with everyone using MyCommunity.

I will reach the end of my term of office this September. I must say that I learnt a lot and I thoroughly enjoyed engaging with so many YP volunteers, colleagues, and IET staff over the past two sessions. I am certain that everything that we do today and in the near future as YP's will continue to help advance the Institution.

David Leong
Chair, YPCT

News – IET PATW UK Regional Final

On Saturday 7th July, the UK arm of the Present Around the World (PATW) competition came to its climax the Regional Final. The event was held in Wales' capital, Cardiff at the country's top ranking university, Cardiff University.

To begin the event, two speakers – Jessica Jones and Jon Holt – with very different backgrounds spoke about topics close to their hearts.

Jessica Jones is the UK's first female winner of Young Engineer of Year. Jessica spoke about how she won this competition for her Contraction Optical Monitoring System which she developed in association with Huntleigh Healthcare whilst in school. Jessica's presentation outlined her project, her inspirations into science & engineering (a refreshing mix of both male and female role models) and how she overcame gender stereotypes. She ended her inspiring talk by telling us of her future plans for both her project and her own academic studies.



Jessica Jones



John Holt

This was followed by Jon Holt, a Professor of Systems Engineering at Cranfield University and Global Head of Systems Engineering at Atego Systems. Jon's highly active and entertaining talk began by posing the question of why engineering isn't fully appreciated. This was followed by an explanation as to how maths can be hijacked to fake credibility to pseudo-science. With a doubtful audience, he went on to prove this with a few magical

demonstrations involving numerology with the final act leaving us all in no doubt of his skill. A member of the audience had been holding a closed box since the beginning of his presentation. During this demonstration, that person had chosen a seemingly random number and to everyone's surprise, the number in the box was the very same.

Four competitors from all over the UK had made it past the previous rounds to present their views on engineering, science and technology. The judges found Lili Tao, proceeding from the Northern final, to be the winner and Cian Desmond, representing the Midlands, was runner-up.

The UK winner, Lili Tao, a PhD student studying "*Recursive Non-Rigid Structure from Motion*" within the Applied Digital Signal and Image Processing (ADSIP) Research Centre at the University of Central Lancashire. Lili presented "*Shape from Motion*", the fundamental problem in computer vision derived from image recovery sequences. Reconstruction of rigid objects is well-established, however non-rigid objects such as people and animals, requires significant research. Lili's presentation introduced computer vision in its broadest term. She then



L to R: Brian Thorne, Qurat-ul-Ain Tabassum, Lili Tao, Alan Watts

followed this by focussing on Shape from Motion (SfM) demonstrating both rigid and non-rigid objects including the technological approaches required to solve each problem. The presentation ended with examples as to how non-rigid object representation could be used to improve our lifestyles.

Runner-up Cian Desmond, who is also a PhD student researching “*Wind Flows In and Around Forests*” for the Centre of Renewable Energy Systems Technology (CREST) at the University of Loughborough presented “*Wind Farms and Forests*”. This research has evolved from a European collaboration to gain expertise in the field of wind resource assessment and improve current methodologies. Cian’s presentation showed us the simulation method he has used to produce data for forest canopy wind flows. This method, Computational Fluid Dynamics (CFD), draws from a combination of modelled trees, photographic analysis software and wind tunnel experimentation. Validating this method would in turn allow it to be used to model real-world forest flows.

The UK Final was organised by the YPS of the Wales South East local network led by Chair, Sarah Maber, and supported by committee members Rhys Phillips, Sophie Mear and Aravin. The judging panel featured three members key to the IET and the engineering world. Leading the panel was Alan Watts, the Chair of the IET’s CC-UK. He was supported by Brian Thorne, Welsh Government, and Qurat-ul-Ain Tabassum (Anee), member of the IET’s YPCT.

Without the local and national heats, this final wouldn’t have been possible. The four finalists had successfully won National Heats in the North (organised by Fouad Ragi), Midlands (organised by Basil Jenifer), South East (organised by Femi Olushola) and South West (organised by Sachin Seesurrun) regions.

The UK winner, Lili, will join the four other Regional Finalists at the PATW Global Final in London in November.

Sarah Maber
Chair, IET Wales South East YPS

Rhys Phillips
IET Communities Committee UK Member

News – IET Present around the World competition: Asia-Pacific Regional Final

Held in Singapore, Sunday 19 August 2012

The Singapore Local Network had the honour this year of hosting the eight regional finalists and their supporters for a stimulating and frankly inspiring day of talks.

The contestants, judges, organisers and a number of local student members convened on the preceding evening for a dinner and a visit to the Singapore Night Safari. They were welcomed to Singapore by Prof Lin Weisi, 2011–12 Chair of the Singapore Local Network, and by Winnie Lee from IET Hong Kong. Although we seemed to have picked the busiest possible night of the year to attend the Night Safari—it was a public holiday weekend—our visitors told me that they enjoyed the experience of seeing nocturnal animals in a reasonably close approximation to their natural habitat.



Contestants and supporters in discussion at lunchtime

Bright-eyed and bushy-tailed the following morning, everyone gathered at the YMCA on Orchard Road, where the competition was to be held. All the contestants had clearly polished their talks with great care: the slides were slick, and the talks were well-timed, with almost no one running more than a few seconds over their allotted 10 minutes.



David Dyer, one of the judges, making comments at the end of the competition

The topics of the presentations spanned computing, energy, medicine, transportation, and consumer electronics. Kitty Tse's (Hong Kong) Audience Response System was remarkably sophisticated, and she explained it very clearly with the help of her beautifully animated slides. Genevieve Beart (Australia), the eventual runner-up, presented her innovative electronic system for identifying the spectral characteristics of light in the home for treating jaundice in newborn children.

Abigail Arulandu (New Zealand), who won the day and will proceed to the global final in London, brought what I thought was a perfect blend of wit and professionalism to her talk. She explained her use of magneto-rheological actuators in stroke rehabilitation. Stroke patients often need to do physical exercises as part of their treatment, and the variable compliance of these actuators allows the amount of damping in the exercise system to be dynamically controlled, so that the exercises can be tailored to the patient.

We were fortunate to have three highly conscientious and dedicated judges. Marv Hixson, a managing director, has lived in Singapore since 1983. David Dyer, formerly of the University of Warwick and now a Principal Scientist at Nanyang Technological University, has been involved in the IET for many years and is a former UK

local network chair. Stephen Scowcroft is with the Sectors and Communities team at IET Stevenage, and sacrificed a day of his holiday in Singapore to help us out. The Singapore Young Professionals Section is immensely grateful to the judges for their time and effort.

During the breaks we heard talks from Stephen Scowcroft, and from David Leong, Chair of the IET's Young Professionals Coordination Team. I think this international audience was very interested to learn about the IET's continuing efforts to make it easier for professionals from geographically scattered networks to interact.

The Singapore Local Network would certainly not have been able to organise this competition without the tireless assistance of our local administrative officer, Yvonne Ko. Yvonne arranged accommodation, catering,



Abigail Arulandu being presented with her winner's certificate by Richard Fong, IET Singapore committee member and IET Council member. In the background are the judges, L to R: Marv Hixson, David Dyer, and Stephen Scowcroft.

Night Safari tickets, and transport, as well as coordinating our responses to enquiries from many quarters. We hope that the contestants enjoyed their few days in Singapore and managed to find some time to explore the city. We wish Abigail the very best for the London final.

Hayden Taylor
Singapore YPS Vice-Chair, 2011–12
Singapore YPS Chair, 2012–13

News – Present Around the World Competition (PATW) South Asia Region Final

The competition takes place throughout the world and starts at IET Local Network (LN) level. Winners of all the LN heats progress to the next stage(s) of the competition to regional level. Winners give the same presentation at each stage of the competition, thereby enhancing their presentation skills and improving their confidence at responding to questions. The regional level winner will get the chance of presenting his paper globally in UK. As well as providing an informal and supportive environment in which competitors can develop their presentation and networking skills, the PATW competition provides a means through which young engineers, engineering students and technologists can share knowledge and information. In fact this

competition again provides a good platform for international exposure and the leadership opportunities.

The second South Asia Regional Present Around the World Competition (PATW) was organized on 2nd of August, 2012 at a reputed engineering college “Dayanand Sagar College of Engineering” (<http://www.dayanandasagar.edu>) at Bangalore city India. It was very well attended event by six candidates from India and Sri Lanka and more the 150 participants from various colleges and institutions.



Young professionals from the region





Candidates presenting their papers

Pakistan candidate was arranged to take part in Asia Pacific Regional PATW. It can be noted that the first regional PATW was held in August last year in Sri Lanka very successfully. Sri Lankan candidate Mr Damith won the regional final and Nikun from Mumbai become runners up.

I am very much sure that the third regional PATW will be organized in much better way and the location for PATW 2013 will be decided and informed in due course.

R. Jananthan
Chair, YP Regional Committee South Asia

News – Young Professionals Summit South Asia 2012

Young Professionals Summit had been taking place in global level since last year and this year it has become a regional event. Thus YP Summit of South Asia region held on third August 2012 at Bangalore, India. The program was well attended by young professionals from various parts of India and Sri Lanka. The idea of YP Summit is to bring active young volunteers in the region into a common floor and share best practices, new ideas, future plans and how to support to drive the IET strategies to the wanted position. It's again a networking activity.



YP Summit South Asia 2012



PATW South Asia Regional Final Winner receiving the cheque

The YP Summit chaired by Jananathan (Chair YPRC). Welcoming all the young professionals to the summit, Jananathan talked about bit of YPRC formation with detail presentation and introduced committee members. Secondly Shekhar Sanyal, Country Head, IET India, shared some key messages for young professionals and also talked about how the system could work in the region. He also carried out two refreshing ice breaking sessions demonstrating core values of IET. After that on behalf of YPCT Jayathu talked about YPCT roles and how can it support to the YPRC and the young professionals in the region and he also mentioned about IET Discussion forum and the benefits.

Colin Arthur from the IET Communities Resourcing Committee talked about new IET communities, structure and how it could support towards engineering communities. He suggested TPN to engage with LN and its activities. He also talked about IET my community and its features. In continuation the five minutes presentation from representatives of all local networks followed with tea break. It was kind of an interactive session and subsequently each LNs shared their experiences and new ideas.

After a short talk of Mr Ian about IET Benevolent fund, grants, trainings and technical courses in IET Connect, a details interactive session was arranged as second phase of the Summit. Mr Prakash from SACC

also participated in the session and answered the queries raised by YPs. In fact this session was very useful for every participants and cleared their doubts and confusions. Number of new ideas was discussed and some were agreed by most of the YPs to implement in their respective LNs. I like to line out few key topics discussed, which were more IET branding using medias, make use of social networks to interact volunteers, appreciation and rewards for volunteers, student membership growth, common agenda and related issues.



Interactive session

As a last part of summit Tushar Chaudhary, Business Development Manager, IET India, discussed about professional registration, process and advantages. Jananathan added on top highlighting the recognition and value of professional registration and how can it help for professionals in various aspects. I would say it was a fantastic event and all the participants commented the same as they were able to discuss and share matters clearly and specifically. My opinion is that the regional event has given advantages for



Participants YP Summit South Asia 2012

networking peoples closely in the region. However global events also are required time to time for volunteers to interact internationally and share their views and experiences horizontally.

R. Jananthan
Chair, YP Regional Committee South Asia

News – IET Academic Affiliate Partner Inauguration at Dr. MGR University

It was indeed a prestigious and joyous occasion, when the IET (UK) presented the “Academic Affiliate” Certificate to Dr.M.G.R Educational and Research Institute-University. Mr. Sehar Sanyal, IET Country head (India), Presented the certificate to Thiru. A.C.S Arunkumar, President, Dr.M.G.R. Educational and Research Institute-University on 26 July 2012 in the conference hall on university premises. Our Universities is one among the third Institutions in India which has the academic affiliate with the IET (UK).



The Vice Chancellor, Dr. Meer Mustfa Hussain briefed about the benefit of being an IET Members and also encouraged the faculty to apply for the various awards announced by the IET. The chief guest for the day Mr. Sekar Sanyal also gave an encouraging speech and also stated the benefits of being an academic affiliate jointly with the IET (UK). The event ended with a vote of thanks by Dr.Uma Rajaram, Dean E&T.

The registrar Dr.C.B.Palanivelu also sundered his support during the proceedings of the event. The Deans of various departments, Head of all the departments and faculty members participated in this grand occasion

where the university reached yet another milestone in its history. Crossing this milestone would place the graduates of Dr.M.G.R Educational and Research Institute - University to compete on the international level.

Member In Focus

C.F. Kwong

C.F. Kwong completed his studies with a First Class Honours in BEng (Hons.) Electrical & Electronic Engineering, University of Hertfordshire, UK in 2001 and received a scholarship from the University of Bradford, UK to read MSc in Personal, Mobile & Satellite Communications where he graduated with a Distinction.



He is currently a Senior Lecturer in Telecommunication Engineering at the Faculty of Engineering and IT, INTI International University, Malaysia. He is the head for Telecommunication Engineering Specialisation Group and his research interest includes the cross layer protocols and the mobility management for the hybrid terrestrial and satellite communication networks, and published a number of publications in journal and conferences in this field. He involved in the several Working Group for Standard Radio System Plan initiated and sponsored by the Malaysian Communication and Multimedia Commission. He is the co-editor for International Journal on Engineering and Technology (IJET) and members of the board of editors for two other international journals.

C.F. Kwong is an active member of the Institution of Engineering and Technology (IET), where he was the Chairman of the Young Professional Section (YPS) Malaysia Network for two terms, from 2008 to 2010 and an Ordinary Committee Member of the IET Malaysia Local Network since 2008. He is currently the IET Malaysia Network Assistant Honorary Secretary.

In the international arena, C.F. Kwong was the Task Force Leader of the IET Young

Professional Summit 2011, a member of the IET Community Engagement Project and the IET Volunteer's Conference Weekend 2011 Advisory Group. He was the invited judge for the Present Around the World (PATW) Asia Pacific regional competition in Hong Kong in 2007. He also represented the YPS Malaysia to the IET Active Young Member Conference in Amsterdam in 2007 where he helped the YPS Malaysia to win the Paul Fletcher and Michael Faraday's Award. He was the organising chair for the PATW Asia Pacific regional competition held in Kuala Lumpur in 2008.

He is currently the elected IET Council Member representing the Technical and Professional Network (TPN) of the global IET Community, and attending Council meeting on behalf of the TPN in London three times a year for three years term (until 2014).

Hot Opportunities

Volunteers Opportunities Notice Board

<http://www.theiet.org/volunteers/get-involved/opportunities/>

Hot Tip

Join your Local Network Community

The MyCommunity is an excellent tool for your Local Network and for any ad-hoc community that needs a home.

Look for your Local Network's Community page at the IET MyCommunity. There are now more reasons for you to keep in touch with your mates in the neighbouring Local Networks and participate in the latest events.

<http://mycommunity.theiet.org/communities/categories/4>

Got an idea but lack manpower?

If you have an idea for the YPF or YP250, set up your own YP Task Force and get things done! Just fill up the Volunteers Opportunities Notice Board blank template and email it to volunteer@theiet.org.

<http://www.theiet.org/volunteers/get-involved/opportunities/notice-board-form.cfm?type=doc>

Contact Us

Email: youngprofessionals@theiet.org

Visit our website:

<http://www.theiet.org/volunteers/young-professionals/index.cfm>

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<http://www.facebook.com/iety250>

Editorial

The buzz of Present Around the World competitions has been at its peak with regions holding competitions in conjunction with the local Volunteers Conferences. We hope you have enjoyed the articles from Asia Pacific, South Asia and the UK. More news to come in the next issue, as everyone will be gearing up for the grand finale in London later this year.

The Young Professional Communication Team has been busy coming up with ideas and planning for the upcoming Young Professional Forum Annual Meeting to be held in London this October.

As David mentioned in his message, his role as Chair ends this September but he will continue to contribute to the YPCT as a seasoned team member and Timothy Ludikar will be Chair from next month.

YPs! We would like to know how you found the regional conferences. Send us your experiences, comments and photos.

Last but not least, the ever burning question, what has your YPS been up to in the past few months? Write to us and tell us all about it! We'd love to hear from you!

Qurat-ul-Ain Tabassum, MIET
Newsletter Editor

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