

**A Journey with Engineering and Technology  
- History of IET Kolkata Network, the oldest in India**



**Surajit Chattopadhyay**

Member, IET Communities Committee, South Asia Member, IET Kolkata  
Network

The Institution of Engineering and Technology

## **Patronage**

The Institution of Engineering and Technology

## **Inspiration**

Shekhar Sanyal, Country Head, India

Mr. R N Rajpoot, Chairman, IET Communities Committee, South Asia

Mr. Kapil Khan, Past Chairman, IET Communities Committee, South Asia

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(for past information)

Mr. K C Mukherjee, IET Kolkata Network

Mr. M K Chakravorty, IET Kolkata Network

Prof. Samarjit Sengupta, IET Kolkata Network

Mr. Sankar Nath Mukhopadhyay, IET Kolkata Network

Dr. Tamal Roy, IET Kolkata Network

Mr. Avijit Dutta, IET Kolkata Network

## **Preface**

Life is a continuous process and an Institution is a life of many. With our limited capacity we cannot record the continuous flow of life with time. But, yes! our ambition is infinite. There is no limit in our expectation. With this ambition, we want to go to the future and we want to go to the past whenever our mind desires.

We try to recollect few moments and try to join them to make a whole thing just like a film or movie.

After walking 150 years we have desired to look back. It is for us, It is for showing respect to the charms and pulses of past and it is for the future generation.

Here I have taken a sincere attempt to collect and present the 75-years journey of a network based on Kolkata, the city of Joy, of an Institution originated in London, which is running 150 years and still expanding.

History lovers can stop for few minutes, read and enjoy. Any constructive corrections and views are welcome.

Dr. Surajit Chattopadhyay, FIE(I), CEng (UK)

Author

Member, IET Communities Committee – South Asia

Former Hony Secretary, IET Kolkata Network

Former Chairman, YPS, IET Kolkata Network

	<b>Contents</b>	
Chapter 1	A Historic Journey	
Chapter 2	People	
Chapter 3	Events	
Chapter 4	Achievements	

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## Chapter 1

### A Historic Journey

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#### The Origin

A network was born by the will power of some dreamers.

It was 1871. Long before two other institutions were born: the Institution of Civil Engineers was started in 1818 and the Institution of Mechanical Engineers was started in 1847.

Telegraph companies were developing rapidly. In 1870 around 2500 were working in telegraph companies. Electric telegraphy was introduced into the railways by Cooke and Wheatstone, which helped to increase the popularity of electric telegraphy. A need for a new type of association was felt by the workers of telegraph companies. As their job was closer to electrical field, this need was different from that which was available with associations of civil and mechanical engineers.

Strong willpower of employees of telegraph companies in UK was the reason of the birth of this never-ending journey in 1871.

The name given was The Society of Telegraph Engineers (STE). The first formal meeting was held on 17 May 1871 in 2 Westminster Chambers, Victoria Street, London. A source of inspiration was Major Frank Bolton who served the signalling section of the army for many years.

From the inception its purpose was to serve people of two major sectors: professionals and learners. It involved both electrical and telegraph engineers.

The first meeting was attended by eight people. The first committees comprised a President, two Vice-Presidents, one Honorary Secretary, one Treasurer, two auditors, one librarian and an eleven-member council. Charles William Siemens (1823-1883) became the first President. Lord Lindsay (1847-1913) and Frank Ives Scudamore (1823-1883) became Vice Presidents. Most interestingly, volunteers included a librarian and auditors, which indicated the importance imposed on knowledge and transparency. Members were nerves of the network. Exchange of information and ideas and advancement of electrical engineering and telegraphy were two objects.

In early days, telegraph engineers who have at least five years' experience of working in responsible position were eligible to become professional member. Minimum age of an associate was 21 years. However, there was no qualifying examination till 1913. Early members reflected both professionals and learned body.

The Society was started by the influence of telegraph engineers. Then gradually, it was attracted by the broad aspect of electrical science which was also an important part of telegraphic science.

A thought was raised to change the name of the society to include electrical engineers. A decision was taken in the general meeting held on 22<sup>nd</sup> December 1880. The society was renamed as The Society of Telegraph Engineers and of Electricians. On the coming days it was felt that the only term 'electrician' was not sufficient. Again the name was changed by a council meeting held on 10<sup>th</sup> November 1887. The new name was decided as the Institution of Electrical Engineers. A Certificate of Incorporation was issued to the Institution of Electrical Engineers by Register of Joint Stock Companies on 1<sup>st</sup> January 1889.

Membership continued to increase. In 1895 the total membership was 2064. In 1914, it became 7045.

In the early days, activities and meetings were held in the places or buildings offered by other societies or in rented accommodation. The institution was able to possess its first building on 1<sup>st</sup> June, 1909.

The site was Savoy Place. The first meeting held in Savoy Place was on 10<sup>th</sup> November, 1910. With the growth of the Institution, its financial status was also improving. The institution then obtained remaining the 76 years of a 99 year lease.

After 50 years since its foundation, in 1921, it was granted a Royal Charter.

In 1921, members of this institution got the right to put MIEE or AMIEE after their names as an indication of professional qualifications.

In 1924, the UK Privy council gave permission to the members of this institution to describe themselves as Chartered Electrical Engineers. This confirmed the position of this institution as a responsible organization to cater to the needs of a professional and learned society.

In 1948, the institution was awarded a coat of arms and in 1963, it was registered as charity.

In 2006 it merged with the Institution of Incorporated Engineers (IIE) and was renamed as the Institution of Engineering and Technology (IET). At present the number of worldwide members is over 168,000.

STEE published the first edition of the Rules and regulations for the prevention of fire risks arising from electric lighting in 1882.

IEE proceedings were published on many subjects for many years with high reputation and quality. The Student's Quarterly Journal was published in the 1960s.

The works of Rollo Appleyard (1939) and W J Reader (1987) may be referred to for the official history of the IEE.

The IIE merged with the Society of Engineers (SoE). SoE started its journey in 1854. Around forty small organizations got merged with SoE. SoE was the third oldest professional body

The archives of IET covers records of IEE and IIE and other societies like IProdE (the Institution of Production Engineers) and IERE (the Institution of Electronic and Radio Engineers). IProd was later known as IMfgE. IEE merged with IERE in 1988 and with IProdE in 1991.

## **How the IEE came to Kolkata**

Activities of IEE touched Calcutta of undivided India in 1941. To run various activities Calcutta a committee was formed. First meeting of this overseas committee was held on 30.10.1941. Then up to 1945, total 19 meetings were held by this committee. nineteenth meeting was held on 28 August, 1945. During this time world was witnessing second world war and India was not an exception. It is to be remembered that Calcutta was the capital of India before Delhi. just after second world war, first approved branch was formed in 1945.

The Historic Journey started in 1945 with the name Calcutta Overseas Branch of IEE.

## **H. Waters, Father of IEE in India**

The first Annual General Meeting of the Calcutta Overseas Branch of the IEE was held at he Rotary Club Room of the Great Eastern Hotel, Calcutta on 30<sup>th</sup> October, 1945.

**Mr. H. Waters, MIEE** was elected as the first Chairman of the branch.

Undoubtedly, Waters became the father of the IEE in India. He led the network very positively as we observe his support for a symposium in the first Branch meeting. His team included one Vice Chairman (Mr. H. G. Sale, AMIEE), one Honorary Secretary & Treasurer (Mr. F. Wade-Cooper, MIEE), one Council's Overseas Representative in India (Mr. F. H. Sharpe, MIEE) and eight Ordinary Members (Mr. D. P. H Henderson, AMIEE, Mr. M. S. Thacker, AMIEE, Mr. T. S. Rao, AMIEE, Major. H. P. Burman, AMIEE, Mr. P. Ahern, MIEE, Mr. H. H. George, AMIEE, Mr. A. K. Bhaumik, AMIEE, Mr. G. A. Whitwell, AMIEE) It is interesting to note that his team included three members of Indian origin.

The first big event was "Interference between Power and Communication lines". This symposium was proposed in Annual General Meeting held on 30<sup>th</sup> October, 1945. The proposer was Mr. H N Shrivastava.

## **Changes**

The branch started in India in 1945 in undivided India. Thus the Calcutta branch covered the eastern part of India which included the regions presently part of Bangladesh. In this region, at that time there were two big Universities: the University of Calcutta and Dhaka University. But after the independence of India, the activities of the network spread to the state of West Bengal, its surrounding states, Jharkhand, Odisha, Bihar, and all other north-eastern states of India.

## **Adaption**

The activities of the Centre focused on spreading the latest innovations in engineering and technology to the professionals working in the Calcutta area. Journals and magazines covering new technologies were displayed as part of activities.

## **Core industry**



Unlike present days, examination was mandatory to obtain membership of the IEE. Many members were found from industries such as GEC, Jeshop, Dunlop, the Port Trust of India, CESC (Calcutta Electricity Supply Corporation) etc. This indicates the first post-independence phase of the branch was associated mainly with industry. Mr Adinath Chatterjee Executive Director of CESC Ltd and Dr. Kalyan Kumar Bandyopadhyay, Chief Engineer of the Port Trust of India, were two eminent personalities involved with the association.

### **Power industry**

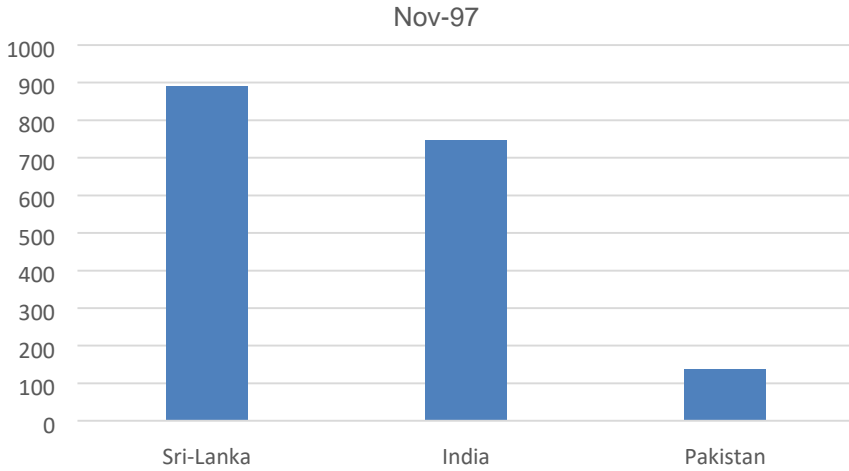
Then more volunteers of CESC Ltd became engaged in network activities. Lots of electrical engineers became attracted to the network. Membership of this professional body became prestigious to power energy professionals.

### **Association with academics**

Though many veteran academicians were members of the society in the early days, the number of activities in universities were less. After 2000, more and more activities were observed taking place in universities and technical colleges.

From 2005, the academic sector dominated activities. A big conference was organized in 2005 at Science City, Kolkata. The network launched its first edition Michael Faraday Summit in 2012. Gradually the event earned a reputation and further events were held in 2013, 2015, and 2020.

### South Asia Member Statistics in 1997

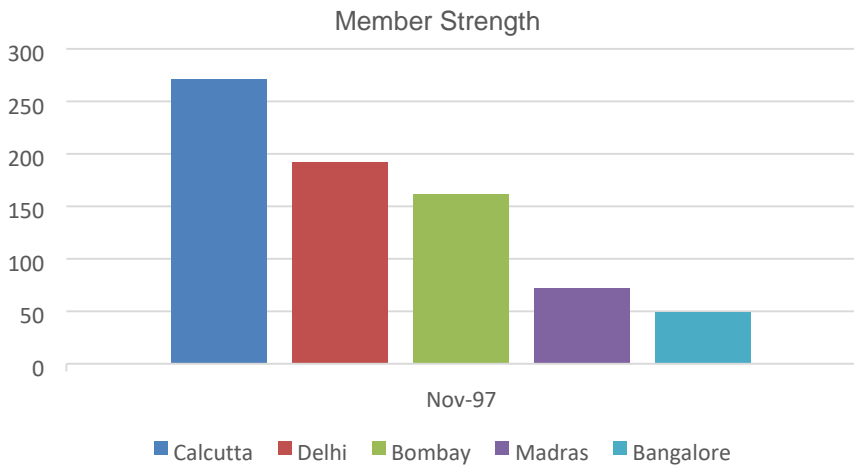


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Country	Number of members
Sri-Lanka	890
India	746
Pakistan	137

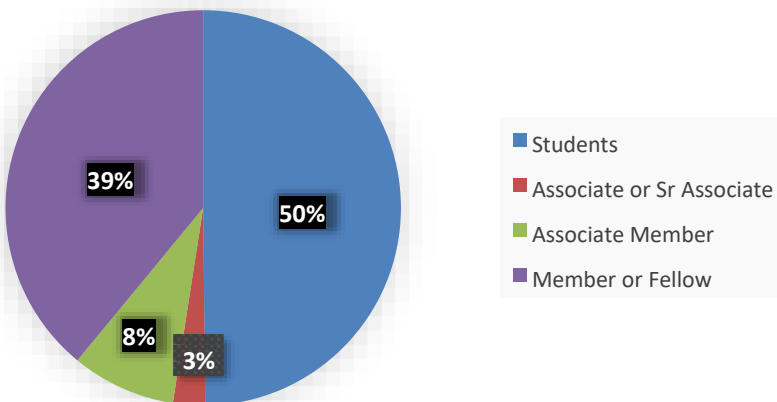
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### India Networks' Member Statistics in 1997



**Number of members (Nov 97)**

Calcutta	271
Delhi	192
Bombay	62
Madras	72
Bangalore	49
Total	746

**IET Kolkata Network's Member Statistics in 1998**

Mar-98

**Number of members (Mar 98)**

Students	152
Associate or Sr. Associate	8
Associate Member	26
Member or Fellow	119
Total	305

305

## Chapter 2

### People

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The Network nourishes many academicians and professionals. In its early days, membership was given based on the outcome of examinations. Behind the existence and growth of the network, the role of dedicated volunteers is unforgettable. Based on the information gathered, only a few names are mentioned below.

#### **Key People**

For the growth of a society, the involvement lots of people is required. Among these, very few people play a key role in the network. There are many, but here names of four key people have been presented. The first key person is Mr H Waters under whose chairpersonship the network started functioning in the region. Dr Kalyan Kumar Bandyopadhyay is the second key person, involved very actively with the network for more than 40 years. He was also a veteran teacher at university level. He merged academia and Industry and helped the network to grow. Mr. Sudeb Ranan Chaki is the third key person who was involved for more than 30 years. He played a key role in maintaining accounts and international relations of the network. The author became a student member of the network in 1998 through him.

Mr K C Mukhopadhyay is the fourth key person of the network who, after the demise of Mr Chaki, played a key role and volunteered dedicatedly in accounts of the network.

#### **H Waters**

H Waters (MIEE) was a British electrical engineer. He is the father of IEE/IET in India. Through different activities and committee meetings of the IEE from around 1941, the first approved network formed under his chairpersonship in 1945. During his tenure, one symposium took place in Calcutta (Kolkata). His friendly academic and professional attitude easily attracted the academicians and professionals in Kolkata and the network started growing. He was the first key person of the network not also in Kolkata but also in India.

#### **Kalyan Kumar Bandyopadhyay**

Dr. Kalyan Kumar Bandyapadhyay, FIET, CEng (UK), was an eminent alumni of the Department of Applied Physics, University of Calcutta. He served as Additional Chief Engineer, Calcutta Port Trust.

For a long time he volunteered as an International Council Representative, Chairman of Calcutta Branch, Executive Committee Member of IEE Kolkata

Network, etc. From 1975 to 1985 (approx.), he was one of active key person of the network guiding different professional activities. Then he continued his volunteering as a senior Executive Committee Member of IET Kolkata Network.

He served as Editor of the IET Kolkata Newsletter.

Dr Bandyopadhyay died on Saturday, 30<sup>th</sup> May 2015.

### **Sudeb Ranjan Chaki**

Sudeb Ranjan Chaki studied Physics, Applied Physics with specialization in power engineering, and an advanced engineering course in Electrical Machines and Industrial Management at Presidency College (now Presidency University), University College Technology, University of Calcutta and University of Manchester Institute of Science and Technology (England). He also attended a one-month full time Management Development Programme conducted by the Calcutta Management Association.

He received an AEI International Scholarship and underwent practical industrial Training at AEI, Trafford Park (Manchester) in the then largest electrical industrial complex in the UK for two years. He specialised in the design and manufacture of large rotating machines including turbo generators, where he was officially given a special award for exceptional all round ability and the IEE awarded him membership without examination – something unheard of in those days.

He was selected as faculty position in IIT.

His job experience includes power, mining, teaching, design and development, research, manufacturing and application of engineering in the national and international environment over 38 years.

He has been always active in various fields of knowledge based social commitments. He was worked as a Visiting Expert, Engineering Staff College of India (Hyderabad), Honorary Advisor, Curriculum Development, IIT (Kharagpur, and Distinguished Referee, Journal of The Institution of Engineers (India). He has published more than 200 papers and articles in national and international journals and magazines and newspapers and addressed many gatherings at home and abroad covering a very wide range of subjects.

Mr Chaki became a Chartered Engineer (UK) and Chartered Engineer (India) FIE and FIEE nearly two decades back. He was Honorary Treasurer of the IEE Madras Centre, Chairman of the IEE Calcutta Centre, International Council Representative (Calcutta) (1989-1995), one of the founder father of IEE Asia Region Constitution, Asia Region Board, (1995-1998), International Board Member, International Grant Commission Member Council Member and Trustee, IEE London (1998-1999). He also oversees the IEE Indian Centre's fund distribution, membership subscriptions and Benevolent Fund assistance to deserving candidates.

He is the recipient of many distinguished awards from the International Biographical Centre, Cambridge and The American Biographical Institute (USA).

### **Kartik Chandra Mukhopadhyay**

K C Mukhopadhyay (CEng, MIET) is an eminent alumni of the Department of Applied Physics, University of Calcutta. He served in DCPL and then as an electrical engineer, for the Calcutta Electric Supply Corporation (CESC).

His involvement with IET/IEE dates back over 40 years. He is a Chartered Electrical Engineer. He became a Fellow of IEE in 2001. He volunteered at the network in different capacity including Honorary Secretary (for many years), Treasurer and Chairperson. He plays an important role in accounting the network budget and activities; his effort has helped the network to earn a reputation regarding the transparency of network accounts. He also served various international positions, including overseas representative, member and treasurer in South Asia Communities Committee, etc.

### **Chairpersons**

<b>Names (volunteered as chairperson)</b>	<b>Biography</b>
H. Waters	H. Waters, (Chairperson: 1945-1946). For more see above.
Adinath Chatterjee	Adinath Chatterjee, FIEE. He was an alumnus of IISc Bangalore, India. Executive Director, CESC LTD. He volunteered as chairperson and also as an overseas representative of the network.
Kalyan Kumar Bandyopadhyay	Kalyan Kumar Bandyopadhyay: see above
Kamal K Bose	Kamal K Bose was a Fellow of the IEE. He became chief Engineer of CESC Ltd. He also volunteered as an overseas representative of the network (international committee).
Anup Sen	Anup Sen, FIEE worked for CESC Ltd.
Eruj Bamji	Eruj. Bamji, FIEE worked for M N Dastur Co (P) Ltd, Kolkata. He provided his office space for meetings many times.

Sanjit Dutta	
S R Chaki	S R Chaki: see above
A K Dutta	A K Dutta, FIEE (Chairperson: 1997-1998) He was born on 5 September, 1935. He studied at Woolwich Polytechnic (Thames Polytechnic, Greenwich University) from 1954-1960. He worked at Standard Telephones in London and then at Usha Rectifier as all India Sales Manager, He started his own company in 1967, He became a Fellow of the IEE. He volunteered as Chairperson of the IEE Calcutta Centre and International Membership advisor. He died on 26 October, 2005.
Amal Kumar Mitra	Amal Kumar Mitra (Chairperson: 1998-1999) is an Energy Auditor.
S K Dey	S K Dey (Chairperson: 1999-2000) was an alumnus of Jadavpur University. He worked in the Fuel Research Institute, Bihar, India.
Sanjit Kumar Dutta	
P B Dutttagupta	P B Dutttagupta, FIEE was Professor in the Department of Electrical Engineering, Indian Institute of Technology, Kharagpur.
Mrinal Chakravorty	<p>Mr Mrinal K Chakravorty, BSc (Eng), IIT-BHU, A.R.C.S.T. (Glasgow), F.I.E.E., CEng (Chairperson: 2001-2002), member of the Power Distribution Committee CII, Delhi, former Chairman, Switchgear Committee, IEEMA, Bombay.</p> <p>Mr Chakravorty became a member of the IEE in 1963. He worked aboard and with SIEMENS for 32 years in India in different capacities, including: Project Manager for Chemical Industries, Eastern Region; Manager at Rourkella for Steel Industries; All India General Manager Marketing Product Switchgear, Head Office Mumbai; General Manager Technical Services, at Delhi covering</p>

	<p>Technology Transfer from SIEMENS Germany's perspective.</p> <p>He held different portfolios including member of Power Distribution Committee – CII, Delhi, Ex Chairman Switchgear Committee – IEEMA, Bombay, Represented Siemens in BIS, at Delhi, Ex Chairman IET, (U.K.), Kolkata, Ex Lead Assessor ISO 9000. He attended Comprehensive Courses in Management at IIM Ahmedabad, and ASCI Hyderabad. He widely travelled in India and all continents of the world for business and training. He conducted training program, at Greaves Cotton, SIEMENS, Stone India, United Insurance, M. N. Dastoor &amp; Co. etc. He also delivered lectures at different social forums as Calcutta Management Association, Rotary Club etc. He was visiting Faculty of Marketing (Services, International, B2B, &amp; Sales and Distribution), Strategic Management, International Business for the last 15 years.</p>
Aloke Nath Choudhuri	<p>Aloke Nath Choudhuri, (Chairperson: 2002-2005), Former Chairman, IET Kolkata, IET Mumbai. He also served as a professional registration advisor. He worked in corporate section in Mumbai for long period of time. He moved to Calcutta and became director of a company.</p>
Biswarup Basak	<p>Biswarup Basak (Chairperson: 2005-2007) Biswarupt Basak studied Electrical Engineering from Jadavpur University. He served as faculty members of Bengal Engineering College (presently known as IEST, Shibpur. He volunteered IEE Calcutta Branch as Chairperson.</p>
Biswajit Chowdhury	<p>Biswajit Chowdhury, FIEE (Chairperson: 2007-2009), He also became Chairman of United Bank of India.</p>
Ajit Kumar Saha	<p>Ajit Kumar Saha, FIEE (Chairperson: 2009-2011) was born in Kolkata on 1<sup>st</sup> January, 1938. He did Bachelor of Electrical Engineering from BE College Shibpur in the year 1960 with first class and post graduate diploma in Electrical Engineering from Imperial College, London in 1964. He got Gold Medal (Calcutta University for</p>



	<p>proficiency in Mathematics. He worked on a thesis on “Anomalous losses in cold rolled grain oriented steel” under Dr. Allen &amp; Prof. Atkins at Imperial College, London in the year 1963-64.</p> <p>He worked with AEI (India) for two years as trainee engineer. He worked with M/s Otto Ram-Stetter Munich, West Germany for one year on Electro mechanical control units. He worked as a Design Engineer with Gresham Transformer UK on power distribution, air cooled rectifier and electrostatic precipitator transformer. He also worked as a design and development engineer with Johnson &amp; Philip (UK) for power distribution transformers at 45 MVA at 132 kV, switchgear and instrument transformer and as Chief Engineer with East India Electricals manufacturing power &amp; Distribution Transformers.</p> <p>He is the Founder Director of Eastern Transformer &amp; Equipment (P) Ltd. (1969) and Eastern Trafo (P) Ltd. (1987) manufacturing power distribution and special purpose transformer.</p> <p>He is also Founder of Sundarban Sikshayatan, a primary School of 150 boys and girls for less privileged families at Sundarban, West Bengal.</p> <p>He was Fellow of the IEE. He leads a transformer company.</p>
Samarjit Sengupta	<p>Professor Samarjit Sengupta, FIEE, FIETE, SMIEEE (Chairperson: 2011-2013, 2017-2019), Samarjit Sengupta holds a B.Sc, B.Tech, M.Tech, and Ph.D (1996) from the University of Calcutta, Kolkata, India.</p> <p>He was a Professor of Electrical Engineering with the Department of Applied Physics, University of Calcutta. He also served as Head, Dept. of Applied Physics, University of Calcutta.</p> <p>He has authored many books, research papers (more than 200) and guided many Masters and Ph.D research works. He is currently a Visiting Professor with CEGESS, IEST, Shibpur. His</p>

	<p>main research interests include power quality instrumentation, power system stability, and security and power system protection. His current research interest includes renewable integrated power system operation and control.</p> <p>His involvement with IET is more than 30 years. became chairperson of the network two times. He became one of the important volunteers in last twenty years specially in engaging more active volunteers, organizing conferences, seminars. He served as General Chair and Conference Chair in Michael Faraday Summits. During his tenure as chairperson, Kolkata network received IET pride award at CVC – 2012 in Bangalore.</p>
Kartik Chandra Mukhopadhyay	Kartik Chandra Mukhopadhyay (Chairperson: 2013-2015), For more see Section 3.1.
Jayanta Kumar Roy	<p>Dr Jayanta Kumar Roy (Chairperson: 2015-2017)</p> <p>Professor Dr Joyanta Kumar Roy, Ph.D., has been associated with academics and industry in the field of Electronics and Automation Engineering for the last 39 years. His present assignments include Visiting Professor, Narula Institute of Technology (Autonomous unit of MAKAUT), India; Company Director, System Advance Technologies, Kolkata, India, and Founder Chairman, Eureka Sciencetech Research Foundation, Kolkata. He is also a Freelance Consultant to several Industries for providing design support towards Smart Technology in the water industry. Earlier, he served three engineering institutions in India with various capacities, including Principal, Dean, and Professor. He is a Senior Member of IEEE, Chairman IEEE CAS, R-10 Kolkata and past Chairman of IET Kolkata network, Fellow Member of IETE and IWWA, a regular reviewer of IEEE and Springer Journals. He is working as an editor of the S2IS journal. He has published a significant number of scientific and technical publications in the form of a book, book chapters, design documents, peer-reviewed SCI-indexed research papers, etc. His research interest includes the development of smart measurement and control systems, multifunction sensors, IoT based health,</p>

	and technology assisted living, Smart home, and city.
Sankar Nath Mukhopadhyay	<p>Mr Sankar Nath Mukhopadhyay a graduate in electrical engineering of JU of 1983 and has 36 years of experience in power sector in GEC, Tata Power and CESC Limited. He has worked in operation and maintenance of both generation and distribution sector. Worked in power system operations, load flow and load dispatch of an integrated power utility. He has developed expertise in load forecasting, network planning and commercial functions in integrated power business.</p> <p>Since last ten years, he is heading the Asia Institute of power Management, the training and consulting unit of CESC and expanded the institute with all India repute having clientele from all part of India and abroad.</p> <p>He has published many papers on national journals on energy efficiency and sustainability. He is also an adjunct professor of the Jadavpur university on power engineering.</p> <p>Mr Mukhopadhyay is a member of the Energy and Environment Committee of the Bengal Chamber of Commerce and industry and Energy committee member of the CII ER.</p> <p>He is a Chartered Engineer of the European Council, the Chairman of the Institute of Engineers and Technologists (IET) and a qualified Energy Auditor.</p>

## 2.3 Persons with Great Involvement

### 2.3.1 Persons in International Committees

Name (volunteered in International Committees)	Biography
H. Waters	H. Waters, (1945-1946)
Kalyan Kumar Bandyopadhyay	Dr. Kalyan Kumar Bandyopadhyay volunteered as International Council Representative for Calcutta Branch. For more about him see Section 3.1.
S R Chaki	S R Chaki volunteered as International Council representative, International Membership Advisor, Secretary Asia Region for long period of time. For more about him see 3.2.
A K Dutta	A K Dutta volunteered as International Membership Advisor. For more about him see 3.2.
Subhendu Roy Chowdhury	Subhendu Roy Chowdhury volunteered as International Membership Adviser (IMA) for many years.
K C Mukhopadhyay	K C Mukhopadhyay volunteered as International Council Representative for Calcutta Branch, Treasurer of IET South Asia Communities Committee, etc. For more about him see 3.1.
Aloke Nath Chowdhuri	Aloke Nath Chowdhuri volunteered as International Membership Advisor. For more about him see 3.2.
S P Chowdhury	S P Chowdhury, FIET, studied and worked in Electrical Engineering Department, Jadavpur University. He took active role in organizing International Conference PEITSICON-2005, He volunteered as Finance Board Member.
Rajarshi Gupta	Rajarshi Gupta volunteered as member of IET Communities Committee – South Asia only for few months.

<p>Nil Kamal Dutta</p>	<p>Mr. Nil Kamal Datta is one of those few fortunate Indians who have had the opportunity to be intimately associated with the wonderful technology of mobile communications from its inception. During his 40 years in the industry, he has set up 13 green-field mobile networks since 1981 with full or partial responsibility in various telecom organizations in India and abroad.</p> <p>He was General Manager and Head of Network Operations in Modi Telstra, Kolkata that introduced the First mobile phone system in India on 31.7.1995. He later served Vodafone for 11 years as Vice President Network Operations till his retirement in 2012. He also had a short stint of about 2 years as CEO of a solar power company in Kolkata in 2017-18.</p> <p>Mr. Datta is an electronics &amp; communication engineer with post-graduate education in technology and management. He holds MS (Tech) from BITS, Pilani. He also did PGDBM and MBA. He attended advanced engineering courses in England, Advanced Management Programme (AMP) in IIM-Calcutta, leadership programmes in ISB-Hyderabad and NITIE-Bombay and numerous other technical and management courses in India, UK, USA, Australia and other countries.</p> <p>He was elected a Fellow of The IEE and registered as CEng in 2003. He is also a Fellow of IE(I) and IETE and ex-Member of IEEE and The Institute of Management (UK).</p> <p>He has been serving the IET as an active volunteer in various capacities in its Kolkata LN since 2013. He was EC Member, CCSA Member and RO for many years and is currently a Vice Chairman.</p> <p>Mr. Datta firmly believes in R.B. Fuller's philosophy "The more we learn the more we realize how little we know".</p>
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<p>Surajit Chattopadhyay</p>	<p>Surajit Chattopadhyay, FIE(I), CEng(UK) is member of IET Communities Committee – South Asia (CCSA) and International Professional Registration Adviser (IPRA) of IET.</p> <p>Surajit Chattopadhyay has obtained a BSc in Physics Honours from Ramakrishna Mission Vidyamandir (Belur Math), University of Technology in 1998, and then BTech., MTech. &amp; PhD (Technology) Degree in electrical engineering from Department of Applied Physics of University of Calcutta in 2001, 2003, 2010 respectively. He has obtained CEng from Engineering Council, UK in 2013. He serves as Associate Professor at GKCIET, an Institution affiliated to MAKAUT, West Bengal. He has authored/coauthored more than 130 papers published in international and national journals and conferences and five books. He has received many “Best Paper” awards in international level. He is a Publcon certified peer reviewer. He served as Editors (guest) in Journals, namely, IET Smartgrids and IET Nanodielectrics. His field of interest includes electric power quality, fault diagnosis, power system protection, signal analysis, robotics application and UAV.</p> <p>He has visited many countries for technical interaction like in Lyon (France), Kuala Lumpur (Malaysia), Dhaka (Bangladesh), London &amp; Stevenage (UK) and Negombo (Sri Lanka) and presented his work in different international forums.</p> <p>He volunteered as Chairman of IET Young Professional Section of Kolkata Network (2011-2013), Hon. Secretary of the Institution of Engineering and Technology (UK), Kolkata Network (2013-2016) and Member of IET Communities Committee - South Asia from 2019. He was the Organizing Secretary of First and Second IET Michael Faraday Summit in 2012 and 2013 and Organizing Chair of IET Michael Faraday Summit in 2015 and 2015. During his tenure as Honorary Secretary, Kolkata Network,</p>
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	he received an IET Pride Award from Naomi Wendy Climer, at CVC – 15.
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### 2.3.2 Honorary Secretaries

<b>Name (volunteered as Hony Secretary)</b>	<b>Biography</b>
H. G. Sale	Mr. H. G. Sale, AMIEE, was the first Hony Secretary of the Network
K C Mukhopadhyay	For more see Section 3.1.
Jyotirmoy Bhattacharya	Jyotirmoy Bhattacharya is an Electrical Engineer. He worked in CESC Ltd. He volunteered in IET for many years as Hony Secretary and Executive Committee member of the Kolkata Network. He also became vice-chair of the Network.
P K Dey	P K Dey is an Energy Auditor. He volunteered in IET for many years as Hony Secretary and Executive Committee member of the Kolkata Network.
Rajarshi Gupta	Dr. Rajarshi Gupta is currently Professor with Electrical Engineering section, and Head, Dept. of Applied Physics, University of Calcutta. He volunteered in IET as Hony Secretary of the Kolkata Network. He coordinated and chaired many IET events.
Surajit Chattopadhyay	For more about him see 3.3.2



<p>Tamal Roy</p>	<p>Tamal Roy was born in Kolkata, W.B., on November 11, 1975. He has been graduated from West Bengal University of Technology, Kolkata in 2005 as an Electrical Engineer. He received his M.Tech in Mechatronics Engineering from National Institute of Technical Teachers Training and Research, Kolkata in 2008 and completed his Ph.D from Jadavpur University in 2016. In 2008, he joined the Department of Electrical Engineering at Hooghly Engineering and Technology College as a Lecturer. Since 2011, he has been working as an Assistant Professor at the Department of Electrical Engineering, MCKV Institute of Engineering. His current research interests include adaptive control, uncertainty modeling and robust control of the non-linear systems. He was actively involved in all Michael Faraday Summits organized by the network where he served as Convener and Publicity Chair of the Summit.</p>
<p>Susanta Ray</p>	<p>Susanta Ray is an Assistant Professor in the Electrical Engineering Department, Jadavpur University. Before joining Jadavpur University in 2009 he worked as a Scientist in Defence Research Development Laboratory (DRDL, Hyderabad) one of the premier laboratories of DRDO. He is still associated with a few projects with DRDO. Prof. Ray published a number of research articles in international conferences and journals. He received IEEE PES outstanding Engineer award in 2018. He was a visiting Professor of UPV, Spain in 2019. He is also Secretary of IET Kolkata Network and Secretary of IEEE PES, Kolkata Section. His field of interest includes development of embedded systems, Design of Electrical machines, Fault analysis of Electrical Machines, BLDC motor drives etc.</p>

### 2.3.3 Treasurers

Name (volunteered as Treasurer)	Biography
H. G. Sale	Mr. H. G. Sale, AMIEE, was the Treasurer of the Network
K C Mukhopadhyay	For more about him see Section 3.1.
Arghya Sarkar	<p>Arghya Sarkar (M'06) was born in West Bengal, India, on December 25, 1974. He received the B.Sc. (Hons.) degree in physics and the B.Tech., M.Tech. and Ph.D. degrees in electrical engineering from the University of Calcutta, Kolkata, India,</p> <p>He is currently a Professor with the MCKV Institute of Engineering, Howrah, India. He volunteered IET as treasure of the Kolkata Network.</p>
Avijit Dutta	<p>Avijit Dutta studied in South London College (1988-95,) and then in Greenwich University. Being inspired by his father he became member of IEE. He runs his own power equipment business. He volunteered as Treasurer and Executive Committee member of the Kolkata Network He is also involved with activities of Indian Alumni Network of Greenwich University.</p>
Gopal Marik	<p>Gopal Marik, MIET, is an alumnus of IISWBM. He works in Indian Railways. He volunteered IET as treasurer of the Kolkata Network.</p>

Jitendranath Bera	<p>Jitendra Nath Bera, MIET, has obtained his postB.SC. B.Tech and M.Tech in 1993 and 1995 respectively from the Department of Applied Physics, University of Calcutta with specialization in Electrical Machines and Power System. He has obtained his Ph.D. in the year 2005, from Jadavpur University, Kolkata in the field of multimedia wireless communication. He worked as Scientist-B in a project sponsored by ADA, GOI as the Institute of Radio Physics and Electronics, Calcutta University for a period of almost two years. Then he joined in Premier Irrigation Equipment Limited as AGM and worked for a period of almost 10 years.</p> <p>Since 2005, he worked as Associate Professor till 2012 and is now working a Professor in the Department of Applied Physics, University of Calcutta. His field of interest is in Wireless Communication, Electrical drives and condition monitoring of SMART grid and Micro grid, Electrical Machines, Embedded Systems etc. He has more than 80 national and international journal and conference papers. He has published one Book and guided five Ph.D. candidates. He is actively involved in consultation projects for solving industrial problems through Calcutta University Industry Institute Partnership Project (CUIIPP) Cell.</p>
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### 2.3.4 Young Office Bearers

<b>Name (volunteered as Young office bearers)</b>	<b>Biography</b>
Milton Das	Milton Das (MIET) studied in Jadavpur University. He works in Indian Maritime University. He volunteered IET in younger section.
Rajarshi Gupta	For more about him see 3.3.1
Surajit Chattopadhyay	For more about him see 3.3.1
Sawan Sen	Sawan Sen (MIET) is an alumnus of University of Calcutta where she did her BTech, MTech and PhD. She served in Techno India Salt Lake and at present she works in Kalyani Govt. Engineering College. She volunteered IET as Secretary of younger section.
Tista Banerjee	Tista, MIET, studied in University of Calcutta and worked as Assistant Professor at BPPIMT. She volunteered as Chairperson of YPS of IET Kolkata Network.
Tamal Roy	For more about him see 3.3.3
Nabamita Banerjee Roy	Nabamita Banerjee Roy obtained her B.E. Degree in Electrical Engineering from erstwhile B.E. College, Deemed University, Shibpur, (Presently known as IEST, Shibpur), Howrah, West Bengal, India, in 2002. She post-graduated in Electrical Engineering with specialisation in High Voltage Engineering from Jadavpur University, Kolkata, India in 2004. She also

	<p>Obtained a PhD from Jadavpur University in 2017. She has a rich and diverse academic career as a faculty in electrical engineering degree level from 2004. She is presently working as Associate Professor and HOD in Electrical Engineering Department of Narula Institute of Technology, Kolkata, India. Her areas of research include Signal Processing, Power system faults, Neural Network, Soft Computation and High Voltage Engineering. She is a lifetime Corporate Member of IE(I), Member of Executive Committee of West Bengal State Centre, Electrical Engineering of IE(I), She had been also Senior Member of IEEE and was the Member of Executive Committee IEEE PES Kolkata Chapter. She is associated with IET(UK) Kolkata Network since 2012 and had hold several positions starting from being the Chairman of IET(UK) YPS Kolkata Network to being the Joint Secretary of IET(UK) Kolkata Network. After that she had remained as Member of Executive Committee of IET(UK) Kolkata Network</p>
Debopoma Kar Ray	<p>Debopoma Kar Ray was born in Kolkata, W.B., on March 19, 1986. She graduated from the Academy of Technology, India, with a B. Tech degree in Electrical Engineering in 2008 and completed Master of Technology in Electrical Engineering Electrical Power from the University of Calcutta in 2012. She has done her Ph.D. from the University of Calcutta. She has authored more than 25 papers published in International and National journals and conferences. Presently, she is Assistant Professor in the Department of Electrical Engineering, MCKV Institute of Engineering, Kolkata, India. Her special fields of interest include power quality, fault diagnosis, signal analysis and stability analysis. She is volunteering in IET since 2012. She became Secretary of IET Young Professional Section (YPS) of Kolkata Network. and represent her network in YP Community Volunteer Conference in Abroad. She was actively involved in all Michael</p>

	Faraday Summits organized by the network
Subhojit Bhowmick	<p>Subhojit Bhowmick (MIET) is an alumni of University of Calcutta. He started carrier in Industry. After spending one year in industry he shifted to academics AEIE Dept., Dream Institute of Technology. Then he joined as Assistant Professor at EIE Dept., Techno Main Salt Lake where he is teaching for more than 10 years. His field of interest includes Microprocessor, Microcontroller, Embedded System, etc. He has authored some technical papers in conference proceedings. his PhD work goes on Development of Composite System for Diagnosis of Cardio Vascular Abnormality.</p> <p>He volunteered IET as TISL-IET Student Chapter Coordinator (2014 to till now) and IET (YPS) Kolkata Section Chairman. (2018 to till now).</p>
Aritra Ghosh	<p>Aritra Ghosh passed his M. Tech from Jadavpur University in the year 2011. His M. Tech focused area is Energy Management and Energy savings. After that He joined Murshidabad College of Engineering and Technology as an Assistant Professor. In 2016 he published an Article in Indian Academy of Engineering about the fault analysis of power signals. In 2017 he joined B.P. Poddar Institute of Management and Technology and serve there, till now, as an Assistant Professor.</p> <p>He is right now pursuing his PhD from NIT Silchar in the field of Virtual Power Plant. His research area includes smart gird, distributed generation and Energy Management. He was a district table tennis player in his earlier days. He volunteered in IET YPS.</p>

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## Chapter 3

### Events

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IET Kolkata Network is a vibrant network full of activities. But with time old information has lost. Very few about them that took place before 2000 have been recovered from the documents collected from some old volunteers. Information of the network events have been presented in here.

#### Key Events

1946	A symposium on "Interference between Power and Communication lines". Mr. H N Shrivastava proposed for this symposium in the first AGM held on 30 <sup>th</sup> October 1945 at a part of activities for the season 1945-1946.
	Technical talk and discussion. In the first AGM held on 30 <sup>th</sup> October 1945 at a part of activities for the season 1945-1946, Mr. T S Rao suggested that Members should be invited to read the extracts of the papers read at the Institution in London and to be followed by a discussion.
1946-2000	Different technical talks, discussion, symposiums took place at the premises of GEC, Port Trust of India, CESC Ltd. Jessop, Dunlop, University of Calcutta, Jadavpur University, IIT Khargpur.
1997	President visit in December, 1997
2004	National Seminar and Conference: PRS-2004, held at Science City, Kolkata. It was jointly organized with JIS College of Engineering
2005	International conference on energy, information technology & power sector (PEITSICON – 2005) On 28-29 January 2005 at Science City, Kolkata

2006	<p>National Conference and Seminar (EEDP-06), Kalyani, West Bengal, India</p> <p>Meet with Mr. Paul Jackson, Director of Professional Operations IET. Mr. Paul Jackson visited Kolkata Network on 25 May 2006 and met volunteers of the network. The meet took place at the New Kenilworth Hotel, Little Russell Street, Kolkata 700071.</p>
2007	<p>IET, Kolkata as technical sponsor of International Conference on Modeling and Simulation, MS'07 Kolkata, by Dept of Applied Physics, University of Calcutta and AMSE France on November 3-5, 2007, at Circle club Kolkata.</p>
2009	<p>National conference on Modern Trends in Electrical Engineering was organized by IET Kolkata, at HETC, Hooghly, West Bengal July 11-12, 2009. Prof. Dilip Kumar Basu, former vice chancellor of Burdwan University and Tripura University inaugurated the conference. Prof. Sabyasachi Sengupta, vice chancellor of West Bengal University of Technology opened the conference proceedings. The proceedings include 68 technical papers of various subjects of modern trends of Electrical Engineering. The photo gallery on the theme was opened by Prof N Chatterjee, former professor of Jadavpur University. Prof. K Chakraborty of KGEC delivered invited speech. Other dignitaries include Prof B N Biswas, former dean of Burdwan University, Mr. P K Dey of IET, Mr. K C Mukherjee of IET, Prof. Samarjit Sengupta, professor of Calcutta University, Prof Kesab Bhattacharya, Prof. A N Sanyal of Jadavpur University, Prof. A Chakraborty, Prof A Das and PP Sarkar of Kalyani University, etc.</p> <p>Papers were presented in eight different sessions. Sessions include power system, power quality, control system, neuro-fuzzy, electronics and communication, modeling and simulation etc. A cultural program was organized at the end of the first day. Dr. Surajit Chattopadhyay was organizing Secretary of the Event.</p> <p>Invited lecture on "Quantum Aspects of Black Holes" by Professor Siddhartha Sen, DSc (MIT, USA), Department of Applied Physics, University of Calcutta on 22/12/2009. Invited lecture on Prospects of Nuclear Power in</p>



	India by Dr. D. Majumdar, PhD (USA), Former Senior Nuclear Advisor to US Department of Energy on December 12, 2009 at Department of Applied Physics, University of Calcutta
2009	First Kolkata Network Visit of Mr. Sekhar Sanyal, Country took place on 20 November, 2009. He met with Kolkata network volunteers at New Kenilworth Hotel, Little Russell Street, Kolkata 700071. A review of past events and discussion next plan were made with him.
2009	Technical lecture by Dr. Kalyan Kumar Bandyopadhyay on "In the Quest of Bioelectricity Generation Sources" at the first Kolkata Network Visit of Mr. Sekhar Sanyal, Country on 20 November, 2009. Dr. Kalyan Kumar Bandyopadhyay, was Former Chairman and very senior member of IET Kolkata Network.
2010	National Seminar on Modern Trends in Biomedical Instrumentation, on July 30, 2010 at JIS College of Engineering, Kalyani, West Bengal.
	One-day workshop on Fundamentals of MATAB on July 19, 2010 at MCKV Institute of Engineering, Howrah
	National workshop on Application of Wavelet Transform in Electrical Engineering, Organized by Dept of Applied Physics, University of Calcutta, September 27-28, 2010
	Special lecture on Presence of Water in Moon, November 23, 2010
	National Seminar on Modern trends in Power System Communication, at Dept. of Applied Physics University of Calcutta on December 12, 2010
2011	National Seminar on Industrial Communication: recent Trends, at Dept of Applied Physics University of Calcutta, Feb 11, 2011
	PATW 2011

	National seminar on VLSI Design and its Application in Signal Processing at MCKV Institute of Engineering, Liluah, Howrah, on January 29, 2011
	Two-day workshop on Electronic Circuit Design at MCKV Institute of Engineering Howrah on August 27-29, 2011
	Technical Workshop on ABB's experience with VSC based HVDC and importance of real-time simulation on August 19, 2011 at Department of Applied Physics, University of Calcutta
	Two-day workshop on Theory and Application of Microcontroller on August 27, 2011, at MCKV Institute of Engineering Howrah
2012	Michael Faraday IET India Summit-2012 (MFIIS 2012) - An IET Event for Paper Presentation and Competition on 25 <sup>th</sup> November, 2012. Resource persons were Mr. Prakash Nayak; Prof. Dilip Kumar Basu, Prof P.K. Chattopadhyay, Prof K. Chakraborty, Dr A. Sengupta, Dr K. K. Bandyopadhyay, Prof T.K. Sengupta, Prof S.K. Bhattacharkjya, Prof P. Bandyopadhyay, Prof J.K. Roy, prof S.K. Sen, Prof. J.N. Bera. Venue was Hotel New Kenilworth Kolkata.
	IET Kolkata Network AGM 2012 On 29.09.2012, At Calcutta Club, Kolkata
	Technical Lecture by Dr. K K Bandyopadhyay on 29.09.2012, At Calcutta Club, Kolkata
	Workshop On Microcontroller and Its Application in Embedded Systems on 22 <sup>nd</sup> , 23 <sup>rd</sup> , 24 <sup>th</sup> & 30 <sup>th</sup> September 2012 Organized by Department of Electronics & Communication Engineering MCKV Institute of Engineering In collaboration with IET (UK) Kolkata Local Network
	IET KOLKATA EC-MEET with Mr. Sitharaman and Mr. Nayak, SACC on September 22, 2012 at New Kenilwoth Kolkata, 1 & 2 Little Russle Street.
	National Seminar on Advancement in Biomedical Signal Processing on 22.09.2012

	Participation of Dr Arghya Sarkar, Mr K C Mukherjee, Mr. Shekhar Sanyal, Dr Rajarshee Gupta, Mr. Abhijit Datta, Dr. Samarjit Sengupta, Dr. Surajit Chattopadhyay, Ms. Sawan Sen and Mr. Sourabh Pal in South Asia Community Volunteer Conference at Bangalore on August 4-5, 2012
	Participation of Dr. Surajit Chattopadhyay in South Asia Young Professional Regional Conference at Bangalore on August 3, 2012.
	IET Kolkata Interaction with IEEMA in July 2012
	Participation of Md. Saddam in South Asian PATW Competition on August 2, 2012
	Workshop on Research Competency Development, at MCKVIE, Howrah, July, 2012
	Short Time Course on ETAP, at Dept. of Applied Physics, CU, July, 2012
	Short Time Course on Power System Protection, at Dept. of Applied Physics, CU, July, 2012
	South Asia Communities Committee (SACC) Meet at Kennilworth, Kolkata
	PATW 2012
	2012 Workshop on Application of microcontroller on robotics
	Technotica – Technical Project Competition at MCKV Institute of Engineering Howrah in January, 2012
2013	Second Michael Faraday IET India Summit-2013: An IET Conference for Research Paper Presentation to be held on November 17, 2013
	Technotica-2013 Technical project exhibition and competition held on 9-11/11/2013 in MCKVI, Howrah
	“Hands on Training on Electrical Circuit Design” held at MCKVIE on 30.08.2013 to 02.09.2013

	“Workshop on Electronics Circuit Design” held at MCKVIE on 17.08.2013 to 19.08.2013
	National Seminar on "Practices of Power Transmission Technologies: An Overall Scenario" to be held on July 27, 2013
	Workshop on Electrical and Electronics Circuit Design to be held on 17.08.13, 18.08.13, 19.08.13, 31.08.13, 01.09.13 and 02.09.13 at MCKVIE, Howrah, West Bengal
	National Seminar on Role of Automation in Plant Safety on April 06, 2013 in Kolkata, India
	National Seminar on Smart Metering on February 23, 2013
	Present Around The World Competition—2013
	Technotica-2013, Event for technical project exhibition and competition, At MCKV Institute of Engineering on January 7, 2013
2014	Workshop on Process Instrumentation Technologies was organized by KIIT University and IET in Bhubaneswar on 31.10.2014 to 2.11.2014
	Technotica-2014 - technical project exhibition and presentation for engineering students. Best projects were selected and awarded. It was held at MCKV Institute of Engineering on 22.11.2013
	Plant visit program at Indian Oil at Haldia by IET student members was organized on 17.12.2014
2015	Michael Faraday IET International Summit – 2015 was held at HHI, Kolkata on 12-13 September, 2015. Professor Ajoy Kumar Ray, Padma Shri (awarded by Govt. of India), inaugurated the Summit – 2015. Professor Samarjit Sengupta, was Conference Chair, Dr. K K badyaopadhyay was Chairman of Technical Committee and Dr. Surajit Chattopadhyay was Organizing Chair of the event.

2016	The workshop on "MES'16 (Microcontroller Based Embedded System)" was held at Techno India, Salt Lake Campus, Kolkata on 01.10.2016 to 03.11.2016
	The workshop on "STAAB Pro 16 (Analysis and design software for Civil Engineers)" was held at Techno India Salt Lake Campus, Kolkata on 21.10.16-22.10.16
	National workshop on Robotics was organized by IET KLN at Asia Institute of Power Management (AIPM) CESC Limited, Kolkata on 29.10.2016-30.10.2016
	Technotica-2016, Student Project Competition was held at MCKV Institute of Engineering, Liluah, Howrah on 15.11.2016
	Student Chapter Inauguration program was held at Shiksha 'o' Anusandhan University, Bhuvaneswar on 22.11.2016
	2nd International Conference on Solar Energy Photovoltaic (ICSEP-2016) at KIIT University, Bhuvaneswar
	Short term course on Sensor Network for IoT & Cloud Computing was held at Techno India Salt Lake Campus, Kolkata on 17-19th Dec 2016
2017	Staff Development Programme on 'Recent advancements in computer aided design with AutoCAD' was held at Narula Institute of Technology, Kolkata on 31.01.2017-10.02.2017
	Industry visit was organized at CESC Southern Generating Station, Budge Budge, Kolkata along with annual social meet on 04.02.2017
	CCSA Meeting at hotel Hindustan International, Kolkata
	FUSION 2017, Management Fair at Supreme Knowledge Foundation Group of Institutions

	Workshop on PIC Microcontroller was organized at electrical Engineering Department of Jadavpur University, Kolkata on 18.02.2017-19.02.2017
	PRAYAS-2017, Students' Technical Article Competition was organized at Electronics & Communication Engg. Dept of MCKV Institute of Engineering on 18.02.2017
	Workshop on JSP and HTML was organized at Siksha 'O' Anusandhan University (SOA University), Bhubaneswar on 27.01.2017-28 .01. 2017
	Women Techmakers Summit and Meet up was organized at Siksha 'O' Anusandhan University (SOA University), Bhubaneswar on 29.01.2017
	Workshop on JSP and HTML was organized at Siksha 'O' Anusandhan University (SOA University), Bhubaneswar on 30.01.2017-31.01.2017
	Workshop on Android was organized at Siksha 'O' Anusandhan University (SOA University), Bhubaneswar on 02.02.2017-04.02.2017
	Workshop on Android was organized at Siksha 'O' Anusandhan University (SOA University), Bhubaneswar on 25.02.2017-28 .02.2017
	National Seminar on Renewable Energy Resources and Its Penetration to the Grid was organized at Dept. of Applied Physics, CU, Kolkata on 25.02.2017
	Convolution 2017, Hackathon, Spark Hack was organized at Electrical engineering of Jadavpur University, Kolkata on 17.03.2017-19.03.2017
	International conference on Advance Science and Technology 2017 (ICAST 2017) was organized at MCKV Institute of Engineering on 17.03.2017-19.03.2017
	IET On Campus Membership Drive was organized at Heritage Institute of Technology on 27.04.2017

	Hands on Workshop in Electric Circuit Design was organized at EE Dept. of MCKV Institute of Engineering on 28.04.2017-30.04.2017
	Hands on Workshop in Electronics Circuit was organized at ECE Dept. of MCKV Institute of Engineering on 28.04.2017-30.04.2017
	PATW 2017 Kolkata Local Network, Final was organized at Applied Physics Dept. CU on 29.04.2017
	Innovation, Incubation & Entrepreneurship Development Cell (IIEDC) was organized at Meghnad Saha Institute of Technology INNOVATE 2017 on 28.04. 2017-29.04.2017
	PRAGATI -2017, Tech Fest was organized at MCKVIE on 09.05.2017-10.05.2017
	IPPAI- East & North East India Power Conclave - 2017, was organized at Hotel Taj Bengal, Kolkata on 26.05.2017
	500 KW Canal Top Solar Plant Visit was organized at New Town Rajarhat on 01.07.2017
	One Day Training Program on Low Voltage Switchgear was organized at L&T Switchgear Training Centre at Kolkata on 01.08.2017
	Carriage & Wagon Workshop, Eastern Railway visits was organized at Liluah, Howrah on 05.08.2017
	IET On Campus Membership Drive was organized at Techno India Salt Lake, Kolkata on 08.08.2017
	IET On Campus Membership Drive at Narula Institute of Technology, Kolakta on 18.08.2017
	IET On Campus Membership Drive was organized at B.P.Poddar Institute of Management and Technology (BPPIMT) , Kolakta on 25.09.2017

	Prototype Design Competition (PDC 17), was organized at Techno India Salt Lake, Kolkata on 26.08.2017-27.08.2017
	On Campus Membership Drive Program followed by Technical Lecture was organized at National Institute of Technology, Silchar and Visit Assam University, Silchar on 28.08.2017-29.08.2017
	On Campus Membership Drive followed by Technical Lecture was organized at Meghnad Saha Institute of Technology (MSIT), Kolkata on 29.08.2017
	On Campus Technical Training Workshop on Industrial Automation (SCADA & PLC) was organized at Narula Institute of Technology, Kolakta on 04.09.2017-05.09.2017
	Regional On- Campus Technical Festival 2017
	The visit of Prof. Jeremy Watson, IET-UK President to IIT Kharagpur was held on 11.09.2017
	Prof. Jeremy Watson, IET (UK) President delivered lecture and Meeting with EC Member of IET kolkata Local Network was held on 12.09.2017
	Hands on Training on Solar Power was organized at SKFGI, Mankumdu on 13.09.2017-15.09.2017
	73rd Annual General Meeting of Kolkata Local Network on 15.09.2017
	One Day Seminar on an Overview of Global Scenario of Electricity Market: European and Indian context was organized at Department of Applied Physics, CU, Speaker - Biswarup Mukherjee on 16.10.17
	Technical Lectuer series on Power Sector: A Journey from Classroom to Worksite Theme- Power Sector Scenario of India was organized at Department of Applied Physics, CU, Speaker-. Satyaban Roy on 24.10.17



	Technical Lecture series on Power Sector: A Journey from Classroom to Worksite Theme- Performance Assessment of a Power Station was organized at Department of Applied Physics, CU, Speaker- Satyaban Roy on 31.10.2017
	Two-Day International Conference on Modeling & Simulation (MS-17) jointly organized with AMSE was organized at HHI, Kolkata on 04.11.2017 to 05.11.2017
	Technical Lecture Series on Power Sector: A Journey from Classroom to Worksite Theme- Thermal Power Station: An Overview 07.11.2017
	Technotica-2017, Student Project Competition was organized at MCKV Institute of Engineering, Liluah, Howrah on 10.11.2017
	Workshop and Training Program on PLC & SCADA was organized was organized at B. P. Poddar Institute of Management & Technology on 15.11.2017-17.11.2017
	Hands on Workshop On IoT Based Biomedical Signal Analysis was organized was organized at Techno India Salt Lake, Kolkata on 21.12.2017-23.12.2017
	One-day Seminar on 'Industrial Safety in Jute and other industries was organized was organized at Bally Jute Company at Bally, Howrah on 27.12.2017
2018	One-day Seminar on "Renewable Energy Converters and Storage towards efficient Power Utilisation" was organized at Applied Physics Dept. University of Calcutta on 17.02.2018
	Sparkhack was organized at Jadavpur University 23.02.2018-25.02.2018
	Hands on Workshop On Electric Circuit Design was organized at MCKV Institute of Engineering, Liluah, Howrah on 09.03.2018 10.03.2018
	Two Day Workshop on PSCAD and RSCAD for Power Hardware Simulation using Real Time Digital Simulator was organized at Dept. of Applied Physics, University of Calcutta on 21.03.2018-22.03.2018

	Student Article Presentation on SAP'18 on 23.03.2018-24.03.2018
	Two Day Workshop on Renewable Integrated Power System Studies using ETAP was organized at dept. of Applied Physics, University of Calcutta on 30.03.2018-31.03.2018
	One- day National Seminar On Thermal Power Plant was organized at MCKV Institute of Engineering, Liluah, Howrah on 09.04.2018
	PRAGATI -2018, Tech Fest was organized at MCKVIE on 10.04.2018-12.04.2018
	PATW 2018 Kolkata Local Network, Pre Final at Applied Physics Dept. university of Calcutta on 09.04.2018
	PATW 2018 Kolkata Local Network, Pre Final at EE Dept. Jadavpur University on 17.04.2018
	PATW 2017 Kolkata Local Network, Final was organized at BPPIMT Kolkata on 28.04.2018
	PRAYAS 18 was organized at MCKV Institute of Engineering on 29.04.2018
	Technical Lecturer on 'Harmony Search Algorithm & its application in parameter estimation' was organized at Department of Applied Physics, University of Calcutta on 21.05.2018
	Workshop on Arduinio Microcontroller & IoT was organized at MCKV Institute of Engineering on 04.06.2018-09.06.2018
	Technical Lecture on Lightning and its relation with global climate change at Centre of Excellence for Green Energy and Sensor System, was organized at IEST, Shibpur on 02.07.2018
	Technical Lecture Lightning: Some Facts and Precautions was organized at Department of Applied Physics, University of Calcutta on 04.07.2018

	Technical Lecturer on 'Machine Learning & its application in Engineering' was organized at Department of Applied Physics, University of Calcutta on 20.07.2018
	One-day Technical Lecture Meeting on "Cutting – edge Perspectives of Intelligent System Development for Social Cause was organized at Jadavpur University on 27.07.2018
	Hands on Workshop On Electronics Circuit Design was organized at MCKV Institute of Engineering, Liluah, Howrah on 04.08.2018-06.08.2018
	One Day Training Program on Low Voltage Switchgear was organized at L&T Switchgear Training Centre at Kolkata on 24.08.2018
	Seminar on IoT, The Emerging Future was organized at B. P. Podder Institute of Management & Technology, Kolkata on 01.09.2018
	One-day Industry visit was organized at Electric Loco Assembly & Ancillary Unit of CLW visit at Dankuni on 14.09.2018
	IET Student Volunteer Conference SVC -2018 was organized at Techno India Salt-lake, Kolkata on 23.09.2018
	One-day workshop on Process dynamics control and applications was organized at KIIT, Bhubaneswar, Odisha on 24.09.2018
	Prototype Design Competition(PDC'18) was organized at Techno India Salt Lake, Kolkata on 29.09.2018
	Hands on workshop on Image Processing was organized at Jadavpur University on 29.09.2018
	INPULSA 2K18 was organized at MCKV Institute of Engineering on 11.10.2018
	Technotica a technical model competition was organized at MCKV Institute of Engineering on 16.11.2018
	National Conference on Control, Signal Processing, Power and Energy Systems (CSPES2018)" was

	organized at B.P.Poddar Institute of Management and Technology Kolkata on 16.11.2018-18.11.2018
	IET KLN Prestige Lecture-2018 was organized at Hotel Astor Kolkata on 01.12.2018
	Annual General Meeting 2018 of Kolkata Local Network on 01.12.2018
2019	PRAGATI -2019, Tech Fest at MCKVIE was held on 18.01.2019 to 19.01.2019
	Industry visit and annual social meet of IET Kolkata Local Network at Carriage & Wagon Workshop, Eastern Railway at Liluah was organized on 03.02.2019
	Hands on workshop on “Biomedical Signal analysis” at Techno India, Salt Lake was organized two times on 23.02.2019-24.02.2019 & 03.03.2019-04.03.2019
	One Day International Seminar on Trends in Signal Processing was organized at Applied Physics Dept. CU on 02.03.2019
	Two-days National seminar on Machine Learning Techniques for Signal & Image Processing was organized on 08.03.2019 to 09.03.2019
	Two-days National seminar on Machine Learning Techniques for Signal & Image Processing was organized on 09.03.2018 to 10.03.2018
	Seminar and workshop on Spark HACK, CONVOLUTION 2018 at Electrical Engineering Department of Jadavpur University on 08.03.2019 to 10.03.2019
	Workshop TECHSTORM 2.19 was organized at B.P. Poddar Institute of Management & Technology on 15.03.2019 to 16.03.2019
	PSCAD/RSCAD based Real Time Simulation of Performance Analysis of Grid Tied inverter was held at Department of Applied Physics, CU on 25.03.2019 to 27.03.2019

	National seminar on Photovoltaic Module Reliability was organized by of Centre of Excellence for Green Energy and Sensor Systems (CEGESS), IEST Shibpur at HHI Kolkata on 28.03.2019
	IET Kolkata Young Engineers Awards 2019 (YEA 2019) was held at Hotel Astor, Kolkata on 20.07.2019
	Seminar on Power Electronics Applications in Renewable Energy beyond 2020 at Prof N K Bose Memorial Auditorium (Applied Chemistry Hall) University of Calcutta, on 20.07.2019
	Electronic Circuit Design Workshop was held at MCKVIE, Howrah on 06.09.2019 to 07.09.2019
	Hands on workshop on: 'IoT workshop series-1 [embedded system (arm processor-2019)] was held at Techno India Saltlake, Kolkata on 21.09.2019 22.09.2019
	One-day seminar on Future Mobility: E-Vehicle in India was organized by IET Kolkata Network at The Oberoi Grand, Kolkata on 24.09.2019
	On Campus Student Chapter Presentation
	Technotica-2019 at MCKV Institute of Engineering
	Hands - On workshop on Image Processing (Image- o- Mania 2.0) was held at Jadavpur University on 16.11.2019
	IET Kolkata Prestige Lecture-2019 and Annual General Meeting 2019 were held on 29.11.2019
	ENCON 2019 was held at IISWBM Kolkata on 14.12.2019
	One day training programme on Switchgear at L&T, Switchgear Training Centre Kolkata was held on 21.12.2019
2020	Michael Faraday IET International Summit – 2020 was held virtually held on 3-4 September, 2020. Professor Samarjit Sengupta, was General Chair and Mr. Sankar

	<p>Mukhopadhyay was Conference Chair, Dr. Surajit Chattopadhyay was Organizing Chair of the event. Many dignitaries from Industry and academia participated in the event. Mr. Sekhar Sanyal, Country Head of IET India and Mr. Kapil Khanna, Past Chairman of IET Communities Committee – South Asia graced the inauguration.</p>
	<p>Celebration of 75 years of IET Kolkata Network was held virtually on 4 September. Mr. Sekhar Sanyal, Country Head of IET India and Mr. R N Rajpoot, Chairman of IET Communities Committee – South Asia graced the inauguration. Different dignitaries from Industry and academia participated in the event.</p>

## Notable Speakers

<b>Notable speakers who delivered lectures in IET Kolkata Events</b>	<b>Brief biography</b>
Ashok Sethy	Ashok Sethy, Chairman TCE delivered Special Lecture at Michael Faraday IET International Summit-2020 on 3 October, 2020
B N Biswas	<p>IET Kolkata Prestige Lecture 2014 was delivered by Prof. (Dr.) B.N. Biswas at Annual General Meeting held on 12.09.2014 at Kenilworth Hotel, 1&amp;2, Little Russel Street, Kolkata - 700 071.</p> <p>Prof. (Dr.) B.N. Biswas, M. Sc (Tech), Ph D, CU Gold Medallist is Fellow (AICTE), Visiting Faculty University of Minnesota (USA), Member of various National and International Committees, Recipient of Best Citizen Award (2005) and many other awards. The topic of his lecture was Fundamentals of Electromagnetism.</p>
C.K. Chanda	<p>C.K. Chanda delivered IET Kolkata Prestige Lecturer at 72<sup>nd</sup> AGM of IET Kolkata Local Network was held on 23.09.2017.</p> <p>He worked in SAIL (Durgapur Steel Plant) in the</p>

	<p>capacity of Assistant Manager for about 5 years and two years as lecturer in R. E. College (presently known as NIT), Durgapur, West Bengal. At present he is a Professor in Electrical Engineering Department, IEST (earlier known as BESU/ BE College). Five students received their Ph.D degree under his supervision and one student have submitted his thesis for PhD degree. he has published more than 135 papers in International and National Esteemed Conferences and Journals of repute. He has published six books as author and co-author. He has visited USA for two times, Japan, China, Egypt, Singapore, HongKong, Malaysia and Paris to attend International Conference and UK for collaborative research work (two times) and invited talk. He is an international editorial board member of INFOMSER, Cairo, Egypt. He has chaired and co- chaired of different National and International Conferences. He got best paper award in International Conference in China in 2001 and Tata Rao Prize from IE (I) in 2014. He was a Faculty Council member of Jadavpur University, Member of Energy Committee of JU, Management Council member of Burdwan University, University Council member of Diamond Harbour Women University nominated by Dept. of Higher Education, Govt. of West Bengal, Technical member of Tender Committee of Vidyasagar University &amp; Kalyani University and member of Board of Studies of West Bengal University of Technology.</p>
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Dave Davis	<p>Dave Davis, Chairman of IET Satellite Technical Network, United Kingdom delivered Keynote Speech-2: How Satellite Technology is Transforming the Daily Lives of People in Michael Faraday IET International Summit – 2020 on October 03, 2020.</p> <p>Dave Davis (MBE BSc(Hons) CEng FIET FITP; Technical Director, Global Accounts, ST Engineering iDirect): Dave Davis has a seasoned background in Satellite Communications (Satcom). Learning his trade as an apprentice in the British Army in 1988, he went on to specialize in Satcom at an early age; his first practical experience of Satcom being the response to Hurricane Andrew in the Caribbean in 1992. Months later he was in the first wave of troops deployed to Bosnia as a satellite terminal technician and continued to work with satellite terminals until his final tour as the military Satcom instructor. He was awarded the MBE in 2002 for meritorious military service.</p> <p>Leaving the Army in 2003, he went into industry and continued to build his professional qualifications. He joined NSSL Global, a leading Satcom distribution partner, as a Systems Engineer, before becoming a Project Manager and Engineering Manager. He led many cutting edge projects and was responsible for providing communications to many high profile expeditions, events and deployments. In 2013, he went on to become the Defence and Security specialist at ST Engineering iDirect, before moving to be the lead iDirect engineer supporting the ground-breaking Inmarsat Global Xpress (GX) network. Dave sits on various national and international panels as a technical advisor.</p> <p>In his spare time, Dave volunteers with the IET and ITP as a mentor and Professional Recognition Advisor. He also volunteers with the Newman Holiday Trust (<a href="http://www.newmantrust.org">www.newmantrust.org</a>) and Team Rubicon UK (<a href="http://www.teamrubiconuk.org">www.teamrubiconuk.org</a>), both organisations are always looking for new volunteers.</p>
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D. Majumdar	Invited lecture on Prospects of Nuclear Power in India was delivered by Dr. D. Majumdar, PhD (USA), Former Senior Nuclear Advisor to US Department of Energy on December 12, 2009 at Department of Applied Physics, University of Calcutta.
Dilip Kumar Basu	<p>Dilip Kumar Basu delivered Inaugural Speech in National Conference on Modern Trends in Electrical Engineering (2009), Michael Faraday IET India Summit (2012, 2013).</p> <p>Prof. Dilip Kumar Basu, former vice chancellor of Burdwan University and Tripura University inaugurated the conference. He studied in Department of Applied Physics, University of Calcutta where he served as Professor in Instrumentation Engineering.</p>
Gautam Ray	Mr. Gautam Ray, President CESC delivered Special Lecture at Michael Faraday IET International Summit-2020 on 3 October, 2020.
Jayanta Kumar Roy	He delivered many lectures in various IET events. One of his popular lecture was on “Biosensing at Point of Care'- a recent challenge” delivered on IET Kolkata Lecture Series on 24, August, 2020. For more about him, see Section 3.2.
Jeremy Watson	Professor Jeremy Watson, IET-UK President delivered lecture on 12.09.2017.
Jitendra Nath Bera	<p>Jitendra Nath Bera delivered lecture on “Demand Side Management: An Approach for Energy Efficient and Greener Power Sypply” in IET Kolkata Lecture Series, 2020.</p> <p>For more about him see Section 3.3.3.</p>
Kalyan Kumar Bandyopadhyay	<p>Dr. K K Bandyopadhyay delivered IET Kolkata Prestige Lecture on 29.09.2012, at Calcutta Club, Kolkata.</p> <p>For more about him see Section 3.1.</p>
Kaushik Das Sharma	Kaushik Das Sharma delivered lecture on “Cyber Resilient Image Transmission Technique” in IET Kolkata Lecture Series, 2020.

	<p>Kaushik Das Sharma received the B.Tech. and M.Tech. degrees in Electrical Engineering from Department of Applied Physics, University of Calcutta, India, in 2001, 2004 respectively and Ph.D. (Engg.) degree from Jadavpur University, India, in 2012. He is a recipient of the Kanodia Research Scholarship in 2002 and University Gold Medal in 2004 from University of Calcutta. He is currently serving as a Professor in Electrical Engineering Section of Department of Applied Physics, University of Calcutta, India. In 2016 he was invited to visit University of Manchester, UK and also invited to deliver a special lecture at the University of Southampton, UK. He was the recipient of prestigious Teacher-Researcher Fellowship from University of Paris-Est Cretail, France in 2019. Dr. Das Sharma's key research interests include fuzzy control, stochastic optimization, signal processing, mobile robot navigation and computational approaches in disease detection. Dr. Das Sharma has authored/coauthored about 60 technical articles, including 30 international journal papers. This includes papers in IEEE Transactions, Elsevier, Springer etc. He has also authored a book on "Intelligent Control" from Springer.</p>
Kele	<p>Dr Kele, CMD, Tripura Power Company delivered Special Lecture at Celebration of 75 years of Kolkata Network on 4 October, 2020.</p>
LIM, Yew Kee	<p>LIM, Yew Kee, Chairman of the IET Internet of Things Network, United Kingdom delivered Keynote Speech-1: Application of IoT in Environment in Michael Faraday IET International Summit – 2020 on October 03, 2020.</p> <p>LIM, Yew Kee. CEng MIET (res – Georgetown, Penang) is an Adjunct Lecturer, Universiti Teknologi PETRONAS (UTP), Perak, Malaysia. He is Chairman (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 (since 2017present).</p>

	<p>He is a Technical Fellow, LogikHaus Sdn. Bhd., Penang, Malaysia and Industry Advisory Panel (IAP) of Universiti Sains Malaysia (USM), Malaysia. With substantial knowledge in engineering practices and with thirty years' experience in managing global businesses (fortune 500 and public listed companies). From 2013 till 2018, he has organised thirteen events (workshops and international conferences). He has delivered technical lectures to various professional societies and universities in China (not exclusive), e.g. International Space Science Institute – Beijing (ISSI-BJ), Royal Society of Chemistry, IOP Institute of Physics, Beijing University of Posts and Telecommunication (BUPT), Sanjiang University (SJU), and others. He was invited to deliver keynote addresses to two international conferences (Toyohashi University of Technology Japan, IGNITE 2019 and Universiti Sains Malaysia, ICVSSD 2019). He is one of the key persons for making engineering policy and practices for engineers in facing challenges from global competition.</p>
Prakash Nayak	<p>Prakash Nayak delivered keynote at first Michael Faraday IET India Summit in 2012. He is a Fellow Member of IET and Ex-President of ABB Power System. He became Chairman of South Asia – Communities Committee.</p>
R N Rajpoot	<p>Mr. R N Rajpoot, Chairman, CCSA, IET, India delivered Special Lecture at Michael Faraday IET International Summit-2020 on 3 October, 2020.</p>
Rajib Das	<p>Mr. Rajib Das of CESC Ltd. delivered lecture on "Solar Energy" at Annual General Meeting held on 12.09.2014 at Kenilworth Hotel, 1&amp;2, Little Russel Street, Kolkata - 700 071.</p>
Ranjit Kumar Barai	<p>Ranjit Kumar Barai delivered Plenary Lecture in Michael Faraday IET International Summit – 2015. He received his Bachelor of Electrical Engineering and Master of Electrical Engineering from Jadavpur University, Kolkata, India in 1993 and 1995, respectively. He has worked in the power industry from 1995 to 1998. He then joined Jadavpur University as a faculty of the Department of Electrical Engineering. In 2003, he was awarded the Monbukagakusho Scholarship from the</p>

	<p>Government of Japan. He was awarded his PhD in 2007 in Artificial Systems Science with specialization in mechanical and electronic systems from the Graduate School of Science and Technology, Chiba University, Japan. Currently, he is an Associate Professor at the Department of Electrical Engineering, Jadavpur University, and Kolkata, India.</p>
Sabyasachi Sengupta	<p>Sabyasachi Sengupta, vice chancellor of West Bengal University of Technology opened the conference proceedings. The proceedings include 68 technical papers of various subjects of modern trends of electrical engineering from different parts of the country. Prof Sengupta also delivers key note speech.</p>
Santhosh Kumar M	<p>Santhosh Kumar M, Head of Global Technology, WS Atkins Keynote Speech-1: Digital Twin: Future of IoT through Analytics in Michael Faraday IET International Summit – 2020 on October 04, 2020.</p> <p>Santhosh, CEng, Ph. D, has more than 20 years of software development experience focused on next generation technologies. In his current role as Head of Global Technology, he is currently focused on incubating use cases in AEC industry using Blockchain, IOT and AI technologies. Some of the areas he is currently working includes automation of inter disciplinary checks of 3D design using blockchain, collaborative design using augmented reality application and next generation self-service driven analytics platform. Santhosh is IAM certified Asset Management professional and has filed patents in the area of targeted ad placements and dynamic personal network manager. His research also includes study the dynamic network relationships between multi networks that enables/enhances innovation. He has been speakers at different national and international forums like ITU World – Dubai, National Association of Broadcasting – Las Vegas to name a few.</p>
Satyaban Roy	<p>Mr. Satyaban Roy, Former Chief Engineer, Hydel WBSEDCL, delivered lecture on “Reviewing the Hydro Option in the Contemporary Energy</p>

	Perspective” on 15.09.2017 (73 <sup>rd</sup> AGM of IET Kolkata Local Network) at ‘The Astor hotel’ as part of IET Kolkata Prestige Lecturer – 2017.
Shafiquddin	Mr Shafiquddin MD, West Zone, Bangladesh delivered Special Lecture at Celebration of 75 years of Kolkata Network on 4 October, 2020
S Sanyal	S Sanyal, IET India Country Head delivered Special Lecture at Michael Faraday IET International Summit-2020 on 3 October, 2020 and at 75 years Celebration of the Network on 4 October, 2020.
Siddhartha Sen	Invited lecture on “Quantum Aspects of Black Holes” was delivered by Professor Siddhartha Sen, DSc (MIT, USA), Department of Applied Physics, University of Calcutta on 22/12/2009.
Siddhartha DuttaGupta	He is Associate Professor at IIT Mumbai. He delivered Keynote in Second Michael Faraday IET India Summit – 2013 in Kolkata.
Suddasatya Chakraborty	<p>Suddasatya Chakraborty, Assistant Professor, Electrical Engineering Department, Jadavpur University, delivered lecture on “Light, Lighting &amp;....., towards Human Centric Lighting” on 15.09.2017 (73<sup>rd</sup> AGM of IET Kolkata Local Network) at ‘The Astor hotel’ as part of IET Kolkata Prestige Lecturer – 2017.</p> <p>He also delivered lecture on Paradigm shift in the field of Illumination Engineering: An EEG based new approach towards “Lumen Seen....” at IET Kolkata lecture series, 2020.</p> <p>He is Assistant Professor- Electrical Engineering Department, Jadavpur University. He held following responsibilities: In-Charge, Illumination Engineering Section, Illumination Engineering Laboratory, Electrical Engineering Department, Jadavpur University; Official Member- Division -4: International Commission on Illumination from India; Convener of The Panel (P/4) Of Lamps and Related Equipment Committee, Bureau of Indian Standard (BIS) For Revising Is 1944: Code of Practice For Lighting of Public Thoroughfare; Member of The Electro-Technical Committee, Etd23, Bureau of Indian Standard (Bis); Member of The Electro-Technical Committee, Etd-49, Bureau of Indian Standard (Bis); Executive</p>

	Committee: The IET(UK), Kolkata Local Network; Director Technical, Indian Society of Lighting Engineers (Isle), Calcutta State Centre.
Surajit Chattopadhyay	Surajit Chattopadhyay delivered lecture on “Electric power quality” in IET Kolkata Lecture Series, 2020.  For more about him see Section 3.3.1
Susanta Ray	Susanta Ray delivered lecture on “Harmonics in Transformers” in IET Kolkata Lecture Series, 2020.  For more about him see Section 3.3.2
Udayan Ganguly	74 <sup>th</sup> AGM of IET Kolkata Local Network was held on 01.12.2018 at ‘The Astor hotel’. The meeting was held after IET KLN Prestige Lecturer 2018 by Mr. Udayan Ganguly, Deputy General Manager (Smart Metering Project) CESC Limited, delivered lecture on Smart Metering-Smart Grid-Smart City in 74 <sup>th</sup> AGM of IET Kolkata Local Network, held on 01.12.2018 at ‘The Astor hotel’ as a part of IET KLN Prestige Lecturer 2018.

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## Chapter 4 Achievements

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in the last 75 years of journey, IET Kolkata network has achieved a lot. But, unfortunately old records are not available. A few achievements from the recent past have been listed here.

<b>Name</b>	<b>Highlights</b>
IET Pride Award	Received at CVC – 2012 at Bangalore in 2012
IET Pride Innovative Activity Award	Received at CVC – 2015 at Lonavala in 2015
IET Pride Award Most Content Generating Asia Network	Received at CVC – 2016 at London in 2016
IET Pride Award Most Content Generating Global Network	Received at CVC – 2016 at London in 2016
IET Pride Innovative Event Award	Received at CVC – 2016 at London in 2016
PATW Global Final Winner	Received at CVC – 2012 at London in 2012
PATW South Asia Winner	Two times
PATW Global Champion	Once in 2014
Celebration of 75 <sup>th</sup> years of IET Kolkata Network	Celebrating in 2020-2021

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