

IEEE-IAS Calcutta Chapter Presentation



at

IAS CMD Chapter Workshop

On 5th October ,2010

In IAS 2010 Annual Meeting

Houston, Texas, USA,

By

Prof Ajit K Chattopadhyay

WELCOME

to

INDUSTRY APPLICATIONS SOCIETY

Calcutta Chapter

- ❖ Started on 08 October, 1997 with just 20 members
- ❖ Only independent IAS Chapter (not a joint Chapter) in India till 2005

IAS Calcutta Chapter



- ❖ The city of Calcutta (now renamed '*Kolkata*'), is located in the eastern part of India, was established by the East India Company in late 17th Century as a center of trade for the British. During the following centuries of British colonial rule, it had served as the capital of India till the early 20th century (1911)
- ❖ It is located beside the Hooghly river, a part of the sacred Ganges or Ganga and is the center of rich Scientific, Arts and Cultural heritage. All five Nobel prize winners from India had worked in their respective diverse fields in this city.

Glimpses of Kolkata

➤ **Kolkata metropolitan area has a population exceeding 15 million, 3rd most populous metropolitan area in India**

➤ **The city is classified as the eighth largest urban agglomeration in the world (area 1,750 km²); City has an area of 185 km²**

➤ **Kolkata boasts of Eastern India's only IT hub, its software sector growth transforming it as one of the Hotbeds of Indian IT Industry**



From top clockwise: Victoria Memorial, St. Paul's Cathedral.
3/25/2017 AKC
Downtown Kolkata, Howrah Bridge, Kolkata Tram, Vidyasagar Setu

History of IEEE—IAS CALCUTTA CHAPTER

- IAS Calcutta Chapter was officially started on 8th October ,1997 with just about 20 members
- It is one of the 8 Chapters of IEEE Calcutta Section . Other Chapters are: AP-MTT, COMSOC, Computer, EDS, LEOS, PES, CAS; Website: <http://ewh.ieee.org/r10/calcutta/>
- IEEE Calcutta Section started as Eastern Regional Sub-Section in 1971 with members over the entire Eastern and North-Eastern region of India and was elevated to a Section in September 28, 1978. The activities of the Section are spread over many cities and state capitals under this Section with 8 Chapters, two Affinity Groups (GOLD, WIE) and 16 Student Branches
- IAS members, mainly in the Calcutta region ,took an interest in forming a Chapter to cater to the technical activities of their specific interest and Dr S K Biswas, with encouragement from Dr A K Chattopadhyay and Mr C Satish, (the IAS Region 10 Area Chair) submitted a petition on 15 September,1997 to form an IAS Chapter at Calcutta , which was forwarded by the IEEE Calcutta Section with full co-operation
- The IAS Calcutta Chapter Website : <http://ewh.ieee.org/soc/ias/calcutta/> was launched in September 2001

PETITION TO FORM AN IEEE CHAPTER

Date: 15 Sep 1997

Name of IEEE Society INDUSTRY APPLICATIONS SOCIETY
 Name of IEEE Section CALCUTTA

We, the undersigned, who are members of the above Society and Section, hereby petition for approval to form a Chapter in the Section indicated above.

Signature of Petitioner	Member No.	Printed Name
1) <i>[Signature]</i>	04636973 F	PROF. A. K. CHATTOPADHYAY
2) <i>[Signature]</i>	08264129 SM	DR S. K. BISWAS
3) <i>[Signature]</i>	02629483 M	BISWARUP BASAK
4) <i>[Signature]</i>	03286978 M	PRADEEP. K. GHOSH
5) <i>[Signature]</i>	02830412 M	SHESADRI. B. CHANDA.
6) <i>[Signature]</i>	04631177 M	PRANAB KUMAR GUPTA
7) <i>[Signature]</i>	02917862 M	AJIT K. SAHA
8) <i>[Signature]</i>	04298548M	AMIT KR. DEY.
9) <i>[Signature]</i>	02542736A	TAPAN CHAUDHURY.
10) <i>[Signature]</i>	40204530 M	AJIT KUMAR DATTA
11) <i>[Signature]</i>	00623371M	DEBASIS DASGUPTA
12) <i>[Signature]</i>	08864399SM	PRABHAS C. SEN
13) <i>[Signature]</i>	40200626 M	TIRTHANKAR RAY
14) <i>[Signature]</i>	40205393M	ARIJIT BISWAS
15) <i>[Signature]</i>	4156741 M	JIBANK CHAUDHURY
16)		
17)		

FOR A CHAPTER FORMATION, 12 PETITIONERS ARE REQUIRED.

The action has the approval of the Section Executive Committee.

The following individual is serving as the Organizer of the Chapter:

Name: DR. SUJIT K. BISWAS
 Street: 10/C DR SURESH SARKAR ROAD
 City, State/Country: CALCUTTA 700014 INDIA
 Phone, FAX, E-mail: Ph. (33) 244-9265 Fax (33) 244-0397

Signature of Section Officer/Office Held: _____

[Signature]
 16th Sept, 1997
 IEEE CALCUTTA SECTION

Chairman: ~~Secretary~~

IAS Calcutta Chapter Activities

- ❖ **The Calcutta IAS Chapter organizes Lectures by eminent personalities in the field of Electrical & Electronics Engineering , from or around Calcutta , from other cities in India , as well as, from abroad Around 6 Technical Lecture meetings are arranged throughout the year**
- ❖ **Seminars / Workshops / Short Term Courses on special topics are organized from time to time for the benefit of the local engineering students and professional engineers in the industry**
- ❖ **These meetings, including social ones, also serve to bring the members close together, so that they get to know each other , and thus benefit in their professional field**
- ❖ **The Chapter maintains a close and coherent relation with the Electrical Engineering faculty of BESU, Shibpur and Jadavpur University, Kolkata in organizing its activities**

List of IAS Calcutta Chapter Members, 2010 (33)

At present IAS Calcutta Chapter has 33 active members :

1 Life Fellow

4 Senior Members

27 Members

1 Student Member

Out of which

15 Members are from Academia

18 Members are from Industry

Observations:

- However, Members from Academia , though less in number, are more active in taking part in the activities of the Chapter than those from the Industry.

- Serious Efforts are needed to make more *Senior Members* from the existing *Members* and enroll new *Members*

2010 IEEE-IAS Calcutta Executive Committee:

Prof Ajit K Chattopadhyay , Life Fellow IEEE, Chair

Prof Sujit K Biswas, Senior Member , IEEE, Vice Chair

Dr Kaushik Mukherjee, Member IEEE, Secretary

Dr Subharun Dalpati, Member IEEE, Treasurer

Dr Mainak Sengupta, Member IEEE, Jt. Treasurer

Prof Biswarup Basak, Member IEEE

Dr Gautam Bandyopadhyay, Member IEEE

Dr Prasad Syam, Member IEEE

Prof Debjani Ganguly, Member IEEE

Dr Suparna Kar Chowdhury, Senior Member IEEE

Shri Manish Sinha, Member IEEE

Prof Jayanta K Roy, Senior Member, IEEE

10 from Academia and 2 from Industry

IAS Calcutta Chapter Activities in 2009

➤ 5 Technical Lecture Meetings arranged as follows:

1. 21 Jan 2009 , Dr Samir Basu, AMEC , Ontario, **Canada** on "*Engineering process for Power Plant Projects*"
2. 17 Feb 2009, Mr Jyotirmoy Roy, Loughborough University, **UK** on "*Solar Technologies, new methods of testing SP Module*"
3. 18 Mar 2009, Dr Arindam Ghosh, Queensland University of Technology, Brisbane, **Australia**, on "*Renewable Energy Utilization – Opportunities and Challenges*"
4. 19 Aug, 2009, Dr Bikash Pal (Distinguished Lecturer) ,Imperial College , **London** on "*Advances in Computation and Control in Power Systems*"
5. 28 Aug, 2009 , Dr Bashudeb Ghosh, KUET, **Bangladesh**, on "*Vector Control of Position Sensor-less PMSM Drive*"

➤ A 5-day Short Term Training Course on "Power Electronics" organized jointly with EE Dept. BESU, Shibpur during 16-22 July, 2009:

The course included **12 Lecture Sessions** on various aspects of **Power Electronics** and **6 sessions on "hands on laboratory experiments "** by the teaching faculties of BESU, Shibpur, IIT Bombay and Jadavpur University, Kolkata. A number of Engineering teachers and Engineers from Industry attended.

IAS Calcutta Chapter Members Dinner Meeting in 2009



IEEE-IAS Calcutta Chapter Activities 2009-2010

➤ selected by the CMD Awards Committee as the "2010 IAS Outstanding Small Chapter" for 2009 performance

❖ Activities in 2010 so far (till September 2010)

➤ Administrative meeting (AGM) on 14 January 2010

➤ A 3-day Short Term Training Course on "*Power Electronics Applications in the Industry*" jointly with EE Dept., BESU during 22-24 Jan'2010

The Course included 7 Lecture sessions and 4 'hands on Lab Sessions" conducted by the EE faculty of BESU and IIT,KGP; Attended by Engineers from Industry and academia

➤ Administrative Meeting of the Exe. Com. on 09 July, 2010

➤ Technical Lecture Meetings:

1. Dr T K Manna, Burns & McDonnell Engg, USA on "Grounding Design & Analysis" on 23 February, 2010

2. Dr D. Dey, EE Dept., JU, Kolkata on " Condition Monitoring of Transformers" on 17 March ,2010

3. Dr S Nandi, Victoria University, Canada, on " Eccentricity Fault Detection of Induction Motor" on 13 August, 2010

IAS Calcutta Chapter Activities in 2010 (Contd.)

- ❖ **A 5-day Short Term Training Course on" Power Electronics" jointly organized with EE Dept. BESU, Shibpur July13-17,2010**

The course included **10 Lecture Sessions** on various aspects of **Power Electronics** and **6 sessions** on "hands on laboratory experiments " by the teaching faculties of BESU, Shibpur and Jadavpur University, Kolkata, and an Industry R & D Engineer. A number of Engineering teachers and Engineers from the Industry attended the Course.

□ Future Activities planned during remaining part of 2010

- ❖ **2/3 more Technical Lecture Meetings to be organized during Sept-Dec 2010**
- ❖ **To associate with the Calcutta Section activities in organizing INDICON'2010 (earlier Annual Convention of the IEEE India Council) to be held during Dec.17-19, 2010, at Calcutta**

□ Major Activity scheduled during 2011

- ❖ **To organize, jointly , with BESU the National Power Electronics Conference (NPEC'2011) during December**

Thanks for your attention

