



Chairman's Message



Dear Members

IEEE R10 Sections and Councils' annual meeting was attended by representatives of all Sections, Chair or their representative held at Cebu in Philippines on 27-28 February. This year there was a deviation from the regular business of elaborate report presentations by the R10 EXECOM members. The EXECOM member presentation was brief not exceeding 5 minutes and highlighted only the salient points, while detailed reports were presented in a poster session in the afternoon presentation where extensive meaningful discussion took place between EXECOM member and the delegates. This was a good format and could be followed at the section AGM wherever possible instead of reading voluminous reports. IEEE has completed 125 years, and at this juncture, it is looking at challenges that face it to expand its reach.

In this context, Dr. Moshe Kam, President-elect made a presentation to R10 assembly on the challenges that IEEE faces in expanding its reach and the new initiatives being taken. He outlined on expanding the IEEE's technical reach through avoiding obsolescence, provide value to members and listen to our members. Another area emphasized by him was on expanding IEEE's geographical reach through globalization and structural reforms in the governance. IEEE's relevance is rooted in its being technically pertinent i.e. We are here because our fields of interest are important - economically and socially. Initiatives are being taken towards increasing the value of membership. Some of the steps include affordable membership, increased access to IEEE/IET electronic library access, publications with practical content, increased benefits for long-time members and payment of membership dues in local currency. Ability to adopt, expand into and lead new fields is critical to IEEE's future. Initiatives are being taken to strengthen IEEE's presence in life science, smart grid, healthcare instrumentation, entertainment engineering and medical informatics and computational biology. MGA (Member and Geographical Activities) is making an attempt to have a new value statement based on the survey and feedback from various sections of members.

A New E-membership model is proposed as a initiative towards affordable membership from 2011 with \$ 50 as dues with no additional discount, no paper publications, no paper membership card and open to countries where per capita GDP is less than \$ 15K. Payment in local currency on trial at the moment. There is no progress on the request for increased access to electronic library and publications with more practical content.

IEEE is in the process of defining its goals in India as it has the second largest country of membership after the US. IEEE India Office likely to be functional by September 2010. The top issues which will be of concern to this office are possibly access to IEEE intellectual property in India, increased use of certification programs and standards, faculty training, administrative improvements in IEEE's operation. Technical English - improving the ability to use and communicate in Technical English is an important initiative being tested in several countries through pilot program.

IEEE has initiated a pilot project in India on trial basis from 15 January 2010 to facilitate payment of dues in local currency for students only. Based on the experience of this pilot project, it will be extended to other member grade as well as to other countries in R10. How this benefit is made known to students is not clear from my inquiries with IEEE HQ officials. I request all section student activity chairs and membership development chairs to spread the word on payment in local currency. IEEE has signed a contract with MCI Management Pvt Ltd for this purpose.

Many initiatives for expanding IEEE's technical and geographical reach are on the cards as mentioned above and structural reforms in governance are in offing. There is a proposal to restructure IEEE Board of Directors to focus the board on strategy than day to day operations. The role of the major Boards and IEEE Vice Presidents is being redefined by imparting more authority and responsibility to the Boards. In this context, the regions have the opportunity to discuss with MGA the role of Regions and Sections, the size and boundaries of Regions, the impact of technologies on the operations of Regions and Sections. The volunteers have a major role to play in shaping the initiatives and structural reforms.

The slate of R10 Director-Elect 2011 candidates has been announced by Prof. Janina Mazierska. Mr. Ramakrishna Kappagantu, IC Secretary and immediate past chair of Bangalore section is one of the candidates while Prof. Toshio Fukuda from Japan and Dr. Jose B Cruz from Philippines are the other two candidates. Mr. Ramakrishna is the only candidate from industry of the three.

With best regards to all.

Kasi Rajgopal
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Message from India Council Secretary

Dear Valued IEEE Members,



IEEE Region 10 Meeting and the Executive Committee Meeting of India Council were conducted on 27th and 28th February, 2010 at Cebu, Philippines.

Good news to you all !

- (a) IEEE office is going to be opened in India during 2010.
- (b) Payment of IEEE dues in local currency i.e. Indian Rupees has been a big concern for so many years to all of us. A pilot project starting with the Indian Student community is going to be launched by IEEE w.e.f. 2011.
- (c) A new membership class namely Electronic Members is getting introduced shortly wherein one need to pay only 50 USD as annual membership dues without any further discounts. This class of new membership is applicable to countries with less than US\$ 15,000 per capita GDP. India would be one among the 22 countries under this category.

Apart from these, many more good facilities are under consideration for encouraging growth of IEEE in India. These are all possible only because of the relentless efforts offered by several committed IEEE Volunteers especially our predecessors.

I strongly feel that all Indians should take lead in getting connected to the world technical forum through IEEE. This is the right time to become member of this prestigious technical association as from 1st of March one need to pay only half year dues for rest of the 10 months in 2010 (those who fall under the minimum income group may avail an additional discount of 25%).

I request one and all to avail this golden opportunity and drive the technical India to high levels through IEEE membership and its activities.

Sincerely,

(Ramakrishna Kappagantu)

Secretary, IEEE India Council

Email: kramakrishna@ieee.org

Events

The second IEEE International Conference on Sustainable Energy Technologies (ICSET 2010), which is a regular series of biennial conferences being planned to bring together professionals and executives in the energy sector, electrical power companies, manufacturing industries, research institutes and educational bodies to share and exchange ideas and information pertaining to sustainable energy technologies. The conference will be held at Kandy, Sri Lanka on 6 – 9 December 2010.

The submission deadline for the 4-page extended summary/digest is on 1 June 2010.

Please view the official conference website at www.ieee-icset.org for more details.

CALL FOR PAPERS – IPEC2010, IEEE Conference Record #17032, sponsored by IEEE Singapore Power & Energy Chapter and technically co-sponsored by IEEE Power & Energy Society and IEEE Singapore Section The 9th International Power and Energy Conference (IPEC2010)

27 - 29 October 2010, Singapore

<http://www.ipec.sg>

Submission Deadline: 1 May 2010

ACM Infosys Foundation Award 2009 goes to UC Berkeley Professor Eric Brewer

Prof. S. Sadagopan

On March 15, 2010 ACM named Professor Eric Brewer of the Department of Electrical Engineering & Computer Science at the University of Berkeley as the recipient of the ACM Infosys Foundation award for the year 2009.

Instituted in 2007 (on the eve of 25th year of Infosys) the ACM Infosys Foundation award carries a prize amount of \$ 150,000 and represents the first global award instituted by an Indian Corporation. The award recognizes personal contributions of young computer scientists and systems developers (typically 40 years of age) that exemplify the greatest recent contributions in the computing field. This award is next only to Turing award, considered the “Nobel” in computing.

The award went to Professor Daphne Koller of Stanford University in the year 2007 and to Professor Jon Kleinberg of Cornell University in the year 2008.

This year's award winner is special in more ways than one. On the one hand Professor Brewer has made cutting edge research contributions to the very foundations of computer science and built large-scale laboratory environments to demonstrate the impact of his research contributions; at the same time, he is equally at ease with societal contributions through his research center TIER (Technology & Infrastructure for Emerging Regions) that helps tens of thousands of patients in rural India!

Professor Brewer studied BS (Electrical Engineering) at UCB (University of California, Berkeley) and did his MS & PhD degrees from MIT. He is reportedly one of the youngest professors to be tenured as Full Professor at UCB at the age of 32!

Professor Brewer's contributions are towards the building of highly scalable and reliable Internet infrastructure. He built a laboratory with a network of workstations (NoW) that could beat the performance of expensive servers. Taking this idea further he went on to co-found Inktomi in 1995, an early search engine that was acquired by Yahoo in 2003. Inktomi was the first to use low-cost PCs to build a cluster and use algorithms and data structures to make the infrastructure “fault tolerant” (function even in case of individual workstation failure), an idea routinely used by major search engines including Google today. That paved the way for highly scalable and reliable Internet that we all take it for granted today.

The other seminal contribution of Professor Brewer is the CAP Theorem that showed the inherent inconsistency of trying to make systems Consistent, Available and Partition tolerant; in the process, Professor Brewer proposed BASE (Basically Available, Soft-state and Eventual consistent) as an alternative. Today's large-scale Internet systems routinely use the idea of BASE.

Yet another key contribution of Professor Brewer is the “Wireless Hypothesis” that talks of developed economies introducing Wireless Internet (and other) infrastructure to be introduced first, instead of eternally waiting for the traditional infrastructure (road, power, drinking water) to be fully available to all citizens. To “prove” his hypothesis Professor Brewer built WiLDNet (an innovative network protocol that uses low cost widely available Wi-Fi chips to build a long-range network usable in rural areas) that is of great relevance to emerging markets. ACM President Wendy Hall summarized it well in her Press statement that accompanied the award notification “Professor Eric Brewer's influential work on scalable web services has defined the basic architecture that is used by almost all systems and make him a visionary with a potential to advance society on numerous social and economic levels”.

Naturally many awards followed Professor Brewer over the years.

- ♦ Professor Brewer was inducted into the National Academy of Engineering and elected as an ACM Fellow in 2007.
- ♦ SIGOPS named him Mark Weiser Award winner in 2009
- ♦ Global Economic Forum recognized him as “Global Leader for Tomorrow”
- ♦ Technology Review included him in TR100 (Top 100 Most Influential People for the 21st century)
- ♦ Industry Standard declared him as the “Most Influential Internet Architect”.

- ♦ InfoWorld named him as the “Top Ten Innovators” way back in 2001.

On June 26, 2010 he will be formally awarded the ACM Infosys Foundation award.

Infosys CEO Kris Gopalakrishnan had the following to say in the Press statement “We are specially proud to honor Professor Eric Brewer for his contributions to computer science and his demonstration of the use of IT for the benefit of disadvantaged population in many regions, especially in developing countries”.

Professor Eric Brewer is no stranger to India. He heads the research center TIER (Technology & Infrastructure for Emerging regions) at UCB that focuses on technologies for the developing world. More than 25,000 patients in rural Tamil Nadu have benefited from tele-medicine that was provided by Aravind Hospital using WiLDNet technology, pioneered by TIER. He visited IIIT-B in the year 2007 and was in Bangalore last year to attend the marriage of his graduate student!

To get a taste of his contributions many of you, young students and professionals in the CS area should take a look at some of the widely cited papers of Professor Brewer listed below

1. The nesC Language: a holistic approach to networked embedded systems (**PLDI** 2003)
2. Cluster-based scalable network devices (**SOSP** 1997)
3. SEDA – an architecture for well-conditioned scalable Internet services (**SOSP** 2001)
4. Lessons from giant scale services (**IEEE Internet Computing**, July 2001)
5. TinyOS (**NSDI** 2004) on Sensor networks
6. Scalable distributed data structures for internet service construction (**OSDI** 2000)
7. The case of technology in developing countries (**Computer**, July 2005)

Reading such seminal works will inspire you to do deep work. Great researchers do not work towards rewards, but awards do motivate many youngsters like you to pursue rewarding research careers.

My very best wishes to many young students to undertake such award winning work.

Prof. S. Sadagopan is very well known author and expert of IT. He is Presently Director of IIIT-Bangalore and also Chairman of IEEE Computer Society, Bangalore Chapter. He will write Regularly for our News letter on topics of interest for IEEE Members



Prof. S. Sadagopan

Guidelines for NDLP

Dr. G. Sainarayanan

What is NDLP?

NDLP is an initiative of India Council to have a National Repository of eminent and distinguished experts who will be available for giving lectures on topics of their interest. These speakers are to carry out Lectures, Tutorials etc. so as to increase the outreach of the Sections and update members and students of engineering colleges on new technologies that matter.

Coordinators

Each Section shall identify one person from the Section to co-ordinate the NDLP activities in the Section. India Council shall identify one person to co-ordinate at the National Level.

The Repository

A Roster of 100 -150 senior professionals who can interact with Sections, Student Branches and Technical Societies is to be maintained. For this purpose sections shall collect the details of the eligible speakers, their topics of expertise, willingness to travel within Section or outside, and their CV. Section chair or a person nominated by him endorses the speaker and a screening committee at India Council approves the list. The list is made public through India Council and Section web sites, on areas of IEEE interest. The speakers shall be IEEE members. For other areas, non-IEEE members also can be considered.

The expenses

The expenses of the speaker – to and fro travel charges, incidentals, honorarium, accommodation charges, etc. are to be met by India Council. The reimbursement of the expense will be made based on submission on all related vouchers (countersigned by the section chair or NDLP Coordinator) in original and complete within one month on approval of the same by the IC Chair through the National Coordinator. Local hospitality like booking of accommodation, local transport, food, etc. are to be borne by the requesting unit. No advance payment will be made for the program. Only the NDLP speaker's expense will be reimbursed.

Operation

1. Any unit of IEEE - Sections, Subsections, Student Branches, Society Chapters, or cluster of members - can use this repository. (*Requesting unit cannot be from the head quarters of the Section*)
2. Only approved NDLP speakers in the roster are to be used for NDLP programs.
3. Maximum of two NDLP speakers can be used per program.
4. Requesting unit sends a request to Section NDLP who in turn checks with the panel of speakers on the subject about their convenience and acceptance and once confirmed informs the requestor and National Coordinator (NC) about the event and probable expenditure.
5. The requesting unit should place the request atleast 2 months in advance and Section NDLP Coordinator should take approval for the event with probable expenditure atleast 2 weeks advance from NC. Once approved by the NC the NDLP program can be conducted.
6. On completion of the program the speaker submits the bills to Section. The section NDLP coordinator submit (a) Consolidated expense statement signed by NDLP coordinator or Chair/Secretary of the section, (b) Original Bill or voucher corresponding to each item in the consolidated expense statement (c) The soft copy of the announcement of the NDLP talk (d) Report on the NDLP Program, including date time and venue (e) Attendance sheet (f) Feedback on the talk. (g) Photographs of the program.
7. The bills/vouchers are to be submitted in original.
8. NC approves the payment and India Council makes the full payment to the speaker by DD within one month from receipt of bills and report in complete.

Section Role

Section coordinator initially collects the details of the speakers to be included in the NDLP roster. Whenever a request is received he contacts the suitable speakers from the panel gets concurrence and informs the National coordinator with probable expenditure to be incurred. On approval by national coordinator, he intimates the speaker and requesting unit to go ahead with the program. After the completion of the program he receives the feed back, attendance sheet and photographs from the organizing unit and bills for expenditure from the speakers. He forwards to the national coordinator for payment with a report on the program.

National Coordinator's Role

Consolidates the list of speakers received from Sections and on approval by the screening committee publishes the NDLP Roster. Receives requests from Sections for NDLP programs, approves, and communicate back to him. On completion of program speaker's bill sent by Section coordinator is authorized for payment. Maintains NDLP database with feedbacks and speaker ratings.

Requestor's Role

Requesting unit goes through the NDLP panel and requests for a lecture and identifies the probable speakers. On confirmation from Section conducts the program. Local hospitality like booking of accommodation, transport, food, etc. are to borne by the requesting unit. On completion of the event a meeting report, feedback form with speaker ratings, attendance sheet and photographs of the program are sent to section coordinator.

Speaker's Role

On receiving a request from section the speaker may confirm his availability and acceptance. Once program is confirmed he arranges for the travel and informs the requesting unit about his travel plan. On completion of the program he submits a bill to Section. He receives payment from India Council by DD.

Section's Role

To give wide publicity of NDLP and initiate NDLP in remote places.

India Council's Role

Setting up of screening committee, NC, arrangement of funds, payment of approved expenses to the speakers by DD.

NDLP Co-ordinator's Note

The number of requests received for NDLP are fewer. We are updating the list of speakers in the IEEE IC website frequently, there are currently more than 125 Speakers. I am attaching the list of speakers. I request you to disseminate the information in your section's student branches and initiate more NDLP talks in your section. Guidelines for the NDLP is also attached for your reference.

I request section NDLP Coordinator to provide the following details for approval of NDLP

Before NDLP (for approval)

1. Details of Speaker
2. Title of the talk, Venue, Date and Time
3. Estimated expenditure

After NDLP (for reimbursement of expenses)

1. Report on the NDLP Program, including date time and venue.
2. The soft copy of the announcement of the NDLP talk
3. Attendance sheet
4. Consolidated expense statement signed by NDLP coordinator or Chair/Secretary of the section
5. A bill or voucher corresponding to each item in the consolidated expense statement signed by the NDLP coordinator or Chair/Secretary of the section
6. Feedback on the talk.

Kindly contact me for any assistance.

Dr Sainarayanan

National NDLP Coordinator

IEEE India Council

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CALL FOR PAPERS

***2010 Fifth International Conference on Industrial and Information Systems, ***

National Institute of Technology Karnataka, Surathkal, Mangalore, India

29 July – 1 August, 2010

The Division of Electrical, Electronics and Computer Systems, National Institute of Technology Karnataka, Surathkal, Mangalore, INDIA is

organizing the 2010 Fifth International Conference on Industrial and Information Systems from 29th July to 1st August 2010. The Theme of

the Conference is /Energy Security through Information Systems and Advanced Communication/. The mission is to bring together innovative

academics and industrial experts in the field of Electrical, Electronics, Computer Science & Engineering and Information Engineering to a common forum, where a constructive dialog on theoretical concepts, practical ideas and results of the state of the art technology will be developed. The Conference is technically sponsored by IEEE Bangalore Section (India), IEEE Kharagpur Section (India), IEEE Sri Lanka Section, ABV-IIITM Gwalior (India) and CPRI Bangalore. The Conference is fifth in the series the earlier ones were organised at University of Peradeniya, Sri Lanka (ICIIS 2006, 2007 & 2009) and IIT Kharagpur (ICIIS 2008). The Conference attracts a large number of participants from IEEE Region 10 and has evolved as a major technical conference in the SAARC region.

The conference proceedings including all the accepted papers and presented papers will be published by IEEE (IEEE Conference Record #16915, IEEE Catalog Number: CFP1058A, ISBN: 978-1-4244-6653-5). Papers describing original and significant contributions are solicited for but not limited to the following areas:

* **Communication and Information Engineering (CIE):** *Mobile and wireless communications, Optical and photonic communications, Antennas and wave propagation, Microwave theory and techniques, Computational electromagnetics, Networking techniques, services and protocols, Information system security and assurances, Radar, sonar and remote sensing applications, Education technology.

* **Electronics, Instrumentation and Computer Systems (EICCS):** *Computational intelligent systems, Bio-inspired systems, virtual environments and human machine interfaces, Measuring systems and applications, Embedded and real time systems, VLSI circuits and technology, Power electronics systems, Signal and image processing, Reconfigurable system and advanced computing systems, Automated systems and software in automation.

* **Robotics and Motion Control (RMC):** *Advances in machine vision lighting and optics, Vision guided robots, Recent developments in

mobile robotics, Cutting edge robotics research topics, Control of electric drives, Precision drives in motion control, Advances in

sensing technology, Industrial networks, Distributed control systems, Intelligent motion systems, Motion and system design

software, Multi-axis systems. * **Power Systems, Energy and High Voltage Engineering (PSEHV):**

*Electricity generation from renewable energy sources, Embedded generators and their controls, Power quality, harmonics and electromagnetic compatibility (EMC), Power electronic applications in power systems, Energy measurements, pricing and regulation, Smart power grid, Power system protection, High voltage engineering, Power system dynamics, analysis and control, Power modeling and simulation.

Prospective authors are invited to submit full-length manuscripts including figures and references at the conference website "<http://www.iciis2010.org> <<http://www.iciis2010.org/>>" following the link Paper submission. All papers will be handled and reviewed by panel of experts from various fields, electronically. Check the conference website for updates.

Important Dates: * Full Paper submission deadline: *March 15, 2010 *

* Notification of paper acceptance: *May 1, 2010*

* Camera-ready paper submission deadline: *June 15, 2010*

* Early registration deadline: *July 1, 2010*

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The IEEE Judith Resnik Award 2010

The IEEE Judith Resnik Award 2010 to Dr. Surendra Pal, FIEEE, Distinguished Scientist ISRO was presented on the 14th February 2010 at the Annual General Body Meeting of the IEEE Bangalore Section at Bangalore . The award ceremony proceedings were conducted by Mr. H. Ramakrishna, former CEO of Central Electronics Research Laboratory (BEL). The Award was presented by Dr. VK Aatre, (FIEEE, Former Scientific Advisor to Minister of Defence/ Secretary, Defence R&D / Director General, Defence Research and Development Organisation, Govt. of India.) The citation was read out by Mr. H Ramakrishna in the presence of around 400 IEEE Bangalore Section members. When the Award was presented there was a standing ovation by everyone present.

Dr. VK Aatre presenting the medal to Dr.S. Pal



Dr. S. Pal addressing the gathering

SPECIAL ANNOUNCEMENT MGA CHALLENGE

Barry Shoop

2010 MGA Vice President /MGA Board Chair

The 2010 MGA Challenge solicits proposals for projects that will deliver tangible member products, services, and increase the value of IEEE membership in 2010. Proposals are solicited from committees, Regions, Sections, Chapters, Student Branches and individuals. The proposal should describe the overall project concept, clearly identify the value to the member and how the project deliverable will increase the value of IEEE membership, outline an implementation plan, and include a detailed budget. Proposals should be consistent with and support the MGA vision, mission, strategies, and goals and should not duplicate existing and ongoing projects. Submissions are encouraged to consider existing data that identifies member input from past Section Congress recommendations, and IEEE member segmentation data. The target budget for MGA Challenge projects is less than \$25,000 USD.

Proposals will be evaluated by a team of senior IEEE volunteers and staff. Evaluation criteria includes but is not limited to:

1. Ability to increase the value of IEEE membership.
2. Pilot project can be implemented in 2010.
3. Breadth of member impact (e.g. across geographies, member lifecycle, and/or industry sectors).
4. Budget \$25,000 USD.

Visit www.ieee.org/mga for additional information (i.e. submission forms, explanation of 2008 Member Segmentation study).

Proposals are due by Friday, 2 April 2010.

Proposals should be submitted electronically to 2010MGACHallenge@ieee.org. General questions about the challenge can be addressed to mga@ieee.org.

IEEE All India Young Engineers' Humanitarian Challenge 2010

IEEE Bangalore Section Initiative

Kartik Kulkarni

Can you solve a humanitarian challenge using science and technology? your project can be granted upto INR 10000!

All Science and Technology students of India (Graduate and Undergraduate students)

Website: <http://youngengineers.ieeebangalore.org/>

"Every young engineer should aim to gift the mankind with a technical contribution fostering innovation and excellence for the benefit of humanity" – With this ambitious goal here is an initiative to help students recognize real world/humanitarian challenges.

Direct the creativity of the students to come up with solutions to the recognized problems, apply technology and go ahead with implementing them.

Nurture innovative ideas of students by mentoring their implementation approach.

Scope:

All Science and Technology students of India (Graduate and Undergraduate students)

(Need not be IEEE members to apply)

Protocol:

- 1) Invite applications for innovative project proposals that aim at solving the real world/ humanitarian challenges of their community/interest.
- 2) Approve applications based on quality, impact, students' merit and availability of the mentors.
- 3) Grant up to INR 10000 to each approved group and try to link the project with suitable mentors from industry.
- 4) Project showcasing event of all the approved projects after completion.
- 5) Award prizes (1 first, 2 second and 3 third prizes)
- 6) Publish the projects on the IEEE Bangalore Section website.7) Recommend the projects to the IEEE Foundation / Send the project teams to the Conferences on Technologies for Humanitarian Challenges.
- 8) Retain the selected projects for handing over to the next batch of students along with inviting fresh ideas.
- 9) Go to step 1

PHOTOGRAPH FROM R10 MEETING AT CEBU



Kharagpur Section Distinguished small section award 2008
YJ Park to Debasis Samanta



MGP Lakshminarayana (section Chair Hyd) receiving 2009
Outstanding volunteer award - Dr. Arun Agarwal from YJP



Director Elect Candidate Prof Toshi
Fukuda with his wife



IC-Cebu-2010



Director and Director Elect Candidate with wives

Editor's Message:



Hitesh Mehta
Editor

Dear Members,

I apologise for slight delay in publicising this months' edition. I thank all members who responded and given feedback on earlier editions of newsletter. It is final now- IEEE India Info shall be published electronically only and print edition is being discontinued. As I mentioned in last newsletter, we have article of Prof S Sadagopan in this volume. I need more distinguished members to come forward and share their views and knowledge with fellow IEEE members and students.

I am receiving several emails complaining about services of IEEE like non-receiving of IEEE membership card or SPECTRUM etc. Please note that we are unable to help in this matter directly and individual members should approach directly to HQ at member-services@ieee.org . If they want information on activities near their place, they should get in touch with their respective section. I shall try to publish information on various sections/ sub-sections in India in next edition, it might be useful and handy for new members and students.

Looking forward your valuable feedback, suggestions and guidance from senior members.