CHAIRMAN’S COLUMN

Dear Members & Readers,

It is December already, and the end of the year. It is a privilege to address you all again through this newsletter.

One of the significant events this quarter was the Sections Congress 2002 which was attended by Chairmen of IEEE Sections from all over the world and wherein the delegates generated recommendations with priorities to the IEEE Board. There was special emphasis by the delegates on rationalising the increase in membership fees, and better web-based means of operations of IEEE activities. Please find a more detailed report in the newsletter.

In October 2002 we had the pleasure of a visit by a high profile IEEE Computer Society team comprising of Dr. Willis King, President, Dr. David Hennage, Executive Director and Dr. Rangachar Kasturi, Vice President of Publications. The Section and CCEM Chapter hosted a dinner in honour of their visit. Please read inside for details on their visit. I also had the pleasure of meeting Dr. Hennage at the CS main office in Washington DC during my visit to the Sections Congress 2002.

As per Section’s tradition, the Annual symposium was held in November. This was our Eleventh Annual Symposium, with a different, but currently hot topic - “System on a Chip”. Prof. Selvarajan was the General Chair, and was ably helped by other officers and volunteers. Student Paper Contest was held as part of the Symposium, and the winners announced earlier and in this Broadcast. Special thanks to all those who evaluated the papers and acted as judges for the contest.

The Student Leadership Workshop was conducted this year again, and was a bigger event than last year, since several more student branches are active now. Arjuna and UVCE were the main organisers, and thanks to them and the monetary support extended to the event by our GOLD society.

As your Chairman, I also attended the India Council’s Execom meeting and AGM at Calcutta along with the ACE 2002 Conference organised by IC and Calcutta Section. Please see the reports on these inside.

EDITOR’S REFLECTIONS

Dear All,

It has been a privilege bringing you the issues of Broadcast during this year 2002. Wish you all

A VERY HAPPY AND PROSPEROUS NEW YEAR 2003!

This issue, like other December issues, is packed with contents, with various reports on many activities, visitors, messages from Chairman, Student Activities Chair and so on.

Of course, among the most important is the AGM and Election Slate announcement which is carried on the back cover page as usual. Urge you all to attend the AGM.

Let us look forward to a great year 2003 with new Execom and lots of activities, WITH your volunteer help and suggestions.

Best Wishes & Regard
S. Krishnaraj, Editor

Chairman’s Column contd...

Thanks to our Nomination Committee’s timely action, the Slate for the Execom 2003 is announced. The Call for AGM and Slate announcement are included in this Broadcast as usual. We specially thank Mr. Parameswaran who served as Nomination Committee Chair, and Dr. Sridhar Mitta and Prof. Patnaik, who served as Members.

We hope to see you in good number, with your spouses, at the AGM on 1st February, 2003. It will be a wonderful time to reminisce and network!

Happy Holidays and Wish you all
A HAPPY and PROSPEROUS NEW YEAR!

- S.V. Sankaran
Chairman

Inside...
- Symposium Report
- Student Paper Prizes
- Student Leadership Workshop
- AGM Notice
- CS Team Visit
- Sections Congress Report

For Private Circulation
Publisher : IEEE Bangalore Section
Editor : S. Krishnaraj
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System on a Chip is currently an area of immense interest wherein it is envisaged to integrate on a single chip most of the components, modules or subsystems of an application. To enhance the usefulness of the symposium an industry session was included wherein experts from industry presented more recent developments, which are important from a commercial point of view.

The annual symposium also included student contest papers, both from PG as well as UG Students. In all there were seven technical sessions comprising of contributed papers (14), industry focus papers (5) and student contest papers (11). Apart from the authors a large number of delegates attended the symposium. Papers on several areas of interest, such as, Architectures, analytical and design methods, testing and packaging, as also various applications were presented. The symposium was inaugurated by Prof. S. V. Sankaran, Chairman IEEE Bangalore Section and the keynote address was delivered by Mr. Sham Banerji, Texas Instruments, Bangalore. Prof. B. S. Sonde chaired the industry session. The final program and the winners of the student paper contest are presented.

**Student Paper Prizes**

**Postgraduate Category**

**First prize** - *S. Nitin*, College of Engineering Trivandrum: Intelligent mobile Robot Path Planning and tracking using hybrid classical and evolutionary strategies.


**BRV Vardan Undergraduate Category**

**First Prize** - *M. Venkataraman*, Golden Valley Institute of Technology, KGF: On a TCP-Friendly Linear Congestion Control Algorithm for Real Time Streaming Application.


**Undergraduate Non-Karnataka Category**


*Congratulation to the Winners!*


Session SOC-III (Chair: C P Ravikumar TI)


5. M.Raju (Hynetic Electronics, Bangalore): Performance and Evaluation of SOC
Day 2 (Saturday, 23 Nov 2002)

Industry Session (Chair: B. S. Sonde)
1. Srivas (MIT Lab): Formal verification for SOC
3. Krishna Murthy (NSC): SOC Applications

Industry Session (Continued)
1. Ananda Mohan (ITI): SOC Design
2. Shankar Prasad (APT): SOC Packaging

Student Contest Papers -Postgraduate [Chairs/Judges: S. Pal (ISRO), Ananda Mohan (ITI)]
1. B.Subba Reddy (IISc): A Study of Pollution Induced Flashover Phenomena.
2. S.Nitin (College of Engineering Trivandrum): Intelligent mobile Robot Path Planning and tracking using hybrid classical and evolutionary strategies.

Student Contest Papers -Undergraduate I [Chairs/Judges: K Rajagopal (IISc), Shankar Prasad (APT)]

5. Rajeev Ganesh, Velamal College of Engg, Design and Optimization of EDFAs for simultaneous amplification of WDM signals in both C & L bands using Fiber Brag Gratings.

Student Contest Papers -UG (Continued)
1. T.Kiran, S.Sriram (Karunya Institute of Technology): Trauma Care using GPS and Cellular Networks.
3. V.Kulkarni, Sameer (NITK, Surathkal): Real Time Implementation of Active Noise Control in a duct on a TMS320C5402 DSK.
REPORT ON IC MEETING AND ACE 2002

IC EXECOM MEETING

The 3rd Execom Meeting of the India Council was held on 20th Dec. 2002 at Science City, Calcutta. IC Chair Mr. Srivastava and Secretary Mr. Asthana welcomed the attendees. After the customary adoption of the previous meeting minutes, the matter of IEEE membership fees hike, especially the students’, was discussed. It was noted that mitigation of fees hike has been recommended as a very high priority item to the IEEE Board at the Sections Congress 2002, and some concrete action is expected.

Mr. Gopakumar of Kerala Section reported on the All India Students Congress held in Trivandrum on 26-27 July 2002. About 40 student branches from all over India took part and the meet was very successfully conducted. Kerala Section spent substantial money to hold this event, as the travel and stay of many of the student delegates were borne by the hosting Section. It was suggested that for future Student Congresses, the respective sections could bear the travel expenses of students and counsellors from their section; this will reduce the financial burden on the host section substantially. Student Congress 2003 is likely to be hosted by the UP Section, else by the Delhi Section.

ACE 2002 was being held simultaneously at Calcutta, organised and hosted by the IC and Calcutta Section. Chennai has earlier agreed to host ACE 2003. It was suggested that ACE 2004 may be hosted by the Gujarat or Hyderabad Section (both reps were not present for a confirmation).

Regarding the Engineering Council of India of which the IEEE India has become a Founder Member. Representatives at ECI from IEEE for 2003 would be the IC Chairman and Bangalore Section Chairman. Other sections will represent in succeeding years in alphabetical order. IC proposed, consideration by the sections, of the one-time Life Membership payment to ECI - the amount would be prorated as per membership strength of the section. Because of the lack of response from several sections, the proposed Silver Jubilee celebration plans of IC have been dropped.

IC AGM MEETING

The IC and AGM reps reconvened after a break for the IC’s AGM as per notice issued earlier. After the welcome by the IC Chairman Mr. Srivastava, the Secretary’s and the Treasurer’s reports were presented by the Secretary-Treasurer Mr. Asthana.

The 2003 Slate of officers for IC, as selected by the Nominations Committee, was announced. There were no petition candidates. Mr. Muralidharan of Bombay Section takes over as the new IC Chairman and Mr. Bera of Bombay Section as Secretary/Treasurer. The full 2003 Excom is posted in the IC website.

ACE 2002, Calcutta

This annual conference event, organised by IC with a host section, was hosted and conducted by the Calcutta Section at the Science City there. The theme was broad - Entertainment, Power, IT and Communications. The conference was inaugurated by the West Bengal Governor, His Excellency Mr. Shah and Guests of Honour included Mr. F. C. Kohli and West Bengal Minister of IT.

About 125 papers were presented in a total of 20 technical sessions and there were three Plenary Talks by experts. The Chauhan Student Paper Contest winners also presented their papers.

- S. V. Sankaran, Chairman

REPORT ON THE SECTIONS CONGRESS 2002

The IEEE Sections Congress (SC) 2002 was held at Washington DC on 18-21 October and was attended by Prof. Sankaran, Bangalore Section Chairman. Sections Congress is a triennial event (once in three years) held by the IEEE, inviting delegates from all over the world. The primary delegates, who also vote on recommendations, are the Section Chairmen from Sections around the world. This event is an attempt by IEEE to gather grass roots level input from the IEEE Sections and members at large, in order to identify and set the priorities on what IEEE and IEEE Board should do in the coming three years.

The SC 2002 was hosted by the IEEE Washington DC, Baltimore and Northern Virginia Sections, and was attended by Section leaders from all ten Regions representing 69 countries. Delegates represented 262 of the IEEE’s total 298 sections. The SC offered good opportunity for the Section leaders to enhance their knowledge of the IEEE, to improve their leadership and organisational skills and network with other delegates, IEEE officers and staff.

Besides the inaugural and speeches by key IEEE persons including the IEEE President, Mr. Ray Findlay, there were several breakout sessions to improve knowledge about IEEE and its operations, as well as discuss and deliberate on issues to generate prioritised recommendations for the IEEE Board.

On Day 3 the delegates brainstormed and generated recommendations for action by the IEEE Board. The recommendations were prioritised. On Day 4, these recommendations were voted upon by the primary delegates indicating priority, as final recommendations from the SC to the IEEE Board for action. This was the highlight of the whole SC. The high priority recommendations included increased electronic or web-based operation of various IEEE activities and reduction of membership dues hike, especially for students.

A total of 40 recommendations were generated, and the same is listed in the order of priority here for the information of the members, as these are important pointers for the future direction of IEEE. The recommendations are also available at the website www.ieee.org/ra/sc.

A meeting of Region 10 Execom was held following the SC 2002. The new Execom will take over from January 2003 under the leadership of the new Director Dr. Jung Uck Seo of Seoul Section, Korea who takes over from the outgoing Director Dr. Teck Seng Low.

S. V. Sankaran, Chairman
REPORT ON IEEE CS TEAM VISIT

Members will recall a visit made by Dr. Rangachar Kasturi from IEEE Computer Society in July 2002 and a luncheon discussion with him as well as a lecture talk by him on Machine Vision. This visit actually paved the way for an expanded CS team visit during October 28-31, 2002. We had the pleasure of a visit by a high profile IEEE Computer Society team comprising of Dr. Willis King, President, Dr. David Hennage, Executive Director and Dr. Rangachar Kasturi, Vice President of Publications. The Section and CCEM Chapter hosted a dinner in honour of their visit on October 29, and several Execom members of the Section and CCEM took part. Dr. King made a presentation about IEEE CS’ organization and activities and answered questions.

The visit had multiple purposes. It was aimed at broadening relationship with other technical organizations like CSI, interaction with IT leaders in industry and government and offer of CS online subscriptions to colleges and universities at much more affordable rates. The visit was timed to coincide with the dates of IT.Com and the national CSI Convention in Bangalore. The CS team attended the Inaugural of the IT.Com and Dr. King shared the dias with the dignitaries including the President of India Dr. Abdul Kalam and later attended the IT CEOs’ Conclave. They also attended the inaugural of the CSI Convention and announced an MOU of cooperation with CSI at a press conference. The CS team also had arranged a booth at the IT.Com for IEEE Computer Society which was manned by IEEE student member volunteers.

Efforts are still on, post visit of the CS team, to work out packages for Online IEEE publications subscriptions at substantially discounted rates for colleges and universities all over India and Karnataka as well.

- S V Sankaran, Chairman

IEEE COMPUTER SOCIETY AT IT.COM 2002

The IEEE Computer Society had organized a stall at the country’s largest IT extravaganza IT.Com 2002 between Oct 29 and Nov 02, 2002 at the Palace Grounds. IEEE Students Branch of UVCE Bangalore got the opportunity to host the stall and explain the benefits of the IEEE Computer Society to the visitors of this huge event.

With the encouragement of Dr. Willis King, President of IEEE Computer Society, Dr. Kasturi, and Dr. David Hennage the Student members enthusiastically introduced the IT.com visitors to the exciting world of IEEE. Among the team were Branch Chair Sharjeel Ahmed, Vice Chair Swaroop Bhushan, General Secretary Arun Makkath, and Membership Development Officers Anirudh Pandit and Annapoornima Koppad.

Thousands of students, corporates and other visitors flocked to enquire about various issues like membership, subscriptions, renewals and also about the Design Contest CSIDC 2002 which were being publicised at the stall. Library subscription plan brochure and Certification Exam CD’s were also distributed.

Arun Makkath, Sharjeel Ahmed, Mr. Willis King, Swaroop Bhushan

Arun Makkath, Swaroop Bhushan, Dr. David Hennage, Sharjeel Ahmed, Anirudh Pandit
A REPORT ON STUDENT BRANCH LEADERSHIP WORKSHOP

The IEEE Bangalore Section, in association with IEEE GOLD (Graduates Of the Last Decade) and IEEE-UVCE Student Branch, conducted the Student Branch Leadership Workshop at UVCE on 26 Oct 2002. This workshop, conducted for the second year in succession, received a tremendous response with a large number of colleges from all over Karnataka participating in it.

The workshop commenced with the IEEE-UVCE Chairman Mr. Sharjeel Ahmed welcoming the participants and the distinguished guests, Mr. Hiriyannaiah, Prof. Kasi Rajgopal, Mr. Arjuna Rao Chavala and Dr. Venugopal K.R.

The chief guest, Mr. Hiriyannaiah, Founder Secretary, IEEE Bangalore Section spoke about the IEEE and its efforts to provide technical knowledge. He urged the students to exploit the knowledge bank provided to them in the form of the IEEE. He was followed by Prof. Kasi Rajgopal, former Chairman of the IEEE Bangalore Section, who provided a detailed account of the activities of IEEE and the IEEE Bangalore Section. Ms. Roopa Rani, Chairman of the GOLD group of IEEE Bangalore Section, gave a report on the history and activities of GOLD.

After the introductory session, Mr. Arjuna Rao Chavala divided the participants into four groups. After determining the expectations of the participants from the workshop, he gave an overview of the hierarchy in the IEEE and explained in detail the duties of each of the office bearers. He was then joined by Mr. Giri Narayan, HR Manager of Siemens, who gave a highly motivating talk on team spirit. He emphasized the need for every team to have a vision and to effectively reach their goals through right attitude, hard work, effective time management, confidence and trust in one another. It was with these thoughts that the group broke for lunch.

Post lunch session consisted of two case studies. In the first one, each team was treated as a virtual IEEE core committee and the teams were told to identify their vision and illustrate the steps taken to realize their vision. Each team came up with imaginative and original ideas that were then presented to the group. In the second case study, the teams were told to identify the problems that the IEEE Student Branches were currently facing and device measures to effectively solve them. The problems addressed were fund raising and retaining the members of the IEEE in view of the hike in the membership fee. The solutions suggested, to these problems, by the teams were worth a thought. Srividya Mohan, former Chairman of the IEEE-UVCE, then spoke to the group about her experience of the IEEE and the privileges she received being an IEEE member. She hoped that the group would work actively for the IEEE and benefit both professionally and personally.

The valedictory function that followed, marked the end of the workshop. The function was presided over by Prof. SV Sankaran, Chairman of the IEEE Bangalore Section, who distributed certificates and T-shirts to the participants. The volunteers too were given T-shirts as a token of appreciation for their dedicated work to make the workshop a success.

Arun Makkath,
Treasurer, IEEE UVCE Student Branch

STUDENT ACTIVITIES 4Q 2002

Hello,

It is time to look back on the year 2002 and assess what we did well and areas we need to improve. Before I do that, let me give more details about the 4Q activities.

Events-4Q ‘02

Student branch leadership workshop 2002 was conducted at UVCE on 26 Nov 2002. Several students and faculty participated in the event. UVCE Student branch under the leadership of Mr Sharjeel, Student branch Chairman and Prof. Venugopal, Branch Counselor took up the task of conducting the whole event, with minimal guidance from me. I whole heartedly thank the UVCE IEEE Student branch officers, volunteers and faculty for their support.

I continue to receive reports of several events conducted by various student branches. SJCE student branch has come out with their branch newsletter.

UVCE student branch also provided support for the IEEE Computer Society’s stall in IT.COM exhibition.

Reporting & Financial discipline: Responding to my call for timely reports, several student branches submitted their plans well in time.

A look back at 2002

When I took up the position of Chair of Student Activities for 2002, I set out with the following goals:

# of IEEE Student members 1000
# of revived/new student branches-3
# of awards won by Section Students/Student branches at region/Global level 2

The update is as follows

Student membership: The student membership exceeds the target by a comfortable margin. Revived/New student branches: IIT, KSIT branches were inaugurated. AIT, GVIT, SJCIT petitions have been filed. The approvals for AIT and SIT branches have been just received.

Awards: NIE student branch won the R10 Exemplary student branch award this year.

On the upside, several student branches had conducted their annual events very well, despite resource crunch. We conducted student leadership workshop for the second year in succession. On the downside, we could not conduct the technical colloquia this year. Overall, it had been very fruitful year for Student activities.

Challenges for 2003

We face the toughest challenge of retaining/growing the student members due to steep increase in student membership fee. Several representations have been submitted to IEEE to reconsider their decision regarding student membership. Meanwhile, we need to work hard to retain the members despite the fee increase and work on innovative ways of giving more than the money’s worth, by meeting the members’ needs. We need to focus our attention on winning contests/awards at Region/Global level.

I thank everyone who helped keep the IEEE flag flying high by their support and participation in the various events.

I wish the students, faculty, colleagues on the EXECOM, members of IEEE and staff of IEEE a very happy and prosperous new year!

Please send your feedback/suggestions.

Greetings!

Arjuna Rao Chavala
Chair, Student Activities, IEEE Bangalore Section
Dear Member:

Warm Greetings from the Section for a Happy and Prosperous New Year!

This communication is to notify the Slate for the Executive Committee for the year 2003 (see below) and also call for the Annual General Body Meeting of the Section at which the Executive Committee and the Office Bearers for the year 2003 will be elected.

Your attending of the AGM and participation in the election are sincerely solicited.

Annual General Body Meeting

The AGM is scheduled to be held on Saturday, 1st February 2003 at Ashoka Hotel, Kumara Krupa Road, Bangalore at 6.30 PM.

Come and see what your Section has achieved over the years, with Silver Jubilee milestone having been crossed, significant activities that happened in the current year 2002, and so on. Come, meet and network with your seniors and peers, some of the top executives in the industry, and of course with the outgoing and incoming Section EXECOM Members. Participate in the Elections for 2003, and offer your suggestions for activities in the coming year. Also volunteer your services where you can to strengthen the Section’s active manpower.

As usual, spouses of members are also invited to join us for this AGM and the dinner that follows it. They will enjoy the social interaction and the glimpses into our professional activities.

Mark your calendar! We look forward to your attending and active participation at the AGM.

IEEE Bangalore Section

ELECTIONS TO THE EXECUTIVE COMMITTEE FOR 2003

Dear Member:

The Nominations Committee this year consisted of Mr. S. Parameswaran(Chairman), Prof. L. M. Patnaik and Dr. Sridhar Mitta. The Committee has proposed the following Slate for the Executive Committee (EXECOM) of the IEEE Bangalore Section for the year 2003:

Chairman : Prof. S.V. SANKARAN IIIT-B SM
Vice Chairman : Dr. SURENDRA PAL ISRO SM
Vice Chairman : Mr. ARJUNA RAO CHAVALA HISO SM
Secretary : Mr. K. RAMAKRISHNA PGCIL SM
Treasurer : Wg. Cdr. PARTHASARATHY C-DOT M
Members :
  Mr. A. RAJA RAO BHEL(retd.) SM
  Prof. A. CHOICKALINGAM IISc SM
  Prof. A. SELVARAJAN IISc SM
  Mr. PRADEEP MADAN Kirloskar Electric SM
  Mr. A. M. BHAGWAT ISRO M

The Bye-laws of the Section also welcomes Nomination of Office Bearers by petition. Such nominations, if any, signed by at least 15 active members, should be received by me on or before 24th January, 2003. Elections will be conducted by due process as applicable at the AGM.

ANNUAL GENERAL BODY MEETING

The AGM of the Section for the year 2002 will be held on Saturday, 1st February, 2003. The meeting will commence at 6.30 PM.

AGENDA

Welcome
Presentation of the 2002 Activities Report
Presentation of the 2002 Financial Report
BRV VARDAN Memorial and other Paper Prize Awards
Election to Executive Committee for 2003
Any other items

If you wish to have any item included in the agenda, please communicate the same to me on or before 24th January, 2003.

The AGM will be followed by dinner. You are invited to bring your spouse to the AGM and the dinner.

Please make it convenient to attend the AGM and confirm your attendance to me by e-mail or fax (indicate ‘with spouse’ if applicable).

Season’s Greetings and Best Wishes
for a Happy New Year.

Dec. 2002 
Arjuna Rao Chavala
Secretary, IEEE Bangalore Section
Ph: 080 658 5751, Fax: 080 658 4750
E-mail: arjunaraoc@ieee.org

Arjuna Rao Chavala Secretary, IEEE Bangalore Section December 2002
<table>
<thead>
<tr>
<th>Priority #</th>
<th>Recommendation</th>
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<tbody>
<tr>
<td>1.</td>
<td>IEEE shall facilitate accurate and complete electronic communication through: centralized maintenance, active verification &amp; correction of membership data (especially email addresses); limited edit capability of the master membership database from the section level; timely updates to section officer lists.</td>
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<td>2.</td>
<td>IEEE should review the student membership dues structure taking into account regional economic differences to reverse the adverse effects in student membership growth and retention resulting from the recent steep dues increase.</td>
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<td>3.</td>
<td>IEEE should develop industry-focused programs and incentives to attract wider participation and support from industry.</td>
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<td>4.</td>
<td>Technical Activities: Provide a more diverse and robust selection of web-based tutorials, including emerging technologies, as a free membership benefit.</td>
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<tr>
<td>5.</td>
<td>Financial issues: In order to create a &quot;global community&quot; IEEE should review its cost structure to ensure affordability of membership worldwide.</td>
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<td>6.</td>
<td>There is a continuing decline by industry / employers / academia in the perceived value of IEEE membership and volunteer activity. This perception must be addressed by creating value statements that would be appreciated by employers. IEEE needs to acknowledge the contributions of volunteers back to their employers.</td>
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<td>7.</td>
<td>IEEE should realize it has a diminishing volunteer base, and in order to recruit new membership within the IEEE, we need clear policies and procedures for motivating, training, and recognizing new and prospective officer volunteers.</td>
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<td>8.</td>
<td>Membership activities: IEEE should review its current membership dues structure to identify and implement more flexible and member-tailored options, with special reference to students &amp; low-income groups.</td>
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<td>9.</td>
<td>In accordance with the recommendations of SC96, IEEE restore student fees to the 2001 level.</td>
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<td>10.</td>
<td>Electronic Infrastructure Improvements Provide: - Functional alias / list for every RAB entity roster; On-line access to submitted reports; &quot;cc&quot; capability for on-line report filing; Acknowledgment of reports filed immediately and via email with capability to modify reports based on verification of proper data received; Capability for multiple forwarding addresses for IEEE aliases (personal and functional), i.e. &quot;dual-homing.&quot;</td>
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<td>11.</td>
<td>IEEE should provide additional benefits to volunteers (i.e., discount on products, limited access to electronic products).</td>
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<td>12.</td>
<td>Fiscal Responsibility - The IEEE operation budget shall be balanced yearly without using reserves or assessing operating units. Operations shall be audited to ensure staffing is commensurate with the budget and strategic plans. The IEEE shall change the financial auditor every 5 years.</td>
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<tr>
<td>13.</td>
<td>Return to Graduated Dues Program: Support the transitional dues from student to full membership over a period of three years. Benefits: increased retention, membership, number of volunteers, Society support. Justification: dues are small component of overall budget.</td>
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<td>14.</td>
<td>Students: Reduce student dues or increase services for student members.</td>
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<td>15.</td>
<td>IEEE be an innovator and set an example in the use of electronic services for communicating, reporting, and improving business services by: Enhancing email services by providing member mailboxes, multiple aliases, and minimizing SPAM. Improving membership and Section/Chapter data quality and ease of use.</td>
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<td>16.</td>
<td>Increase Term of IEEE Presidency: The IEEE Presidency shall be extended to a 2 year term to allow the President to effect appropriate changes in the organization.</td>
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<td>17.</td>
<td>IEEE should modify and extend the existing Financial Advantage, Professional Development &amp; Lifelong Learning Programs for use globally in order to increase the value of membership to all members.</td>
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<td>18.</td>
<td>Expand scope of proposed data access application to simplify creation and maintenance of email distribution lists and support generation of &quot;traditional&quot; mailing labels. Application shall allow for initial creation of email lists and subsequent maintenance. Maintain integrity of address information by continual synchronization with membership databases.</td>
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<td>19.</td>
<td>Financial issues: IEEE should strive for equal benefits worldwide, where cost effective for members.</td>
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<td>20.</td>
<td>IEEE must implement a new low-cost student membership, with on-line services only.</td>
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<td>Priority #</td>
<td>Recommendation</td>
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<td>21.</td>
<td>Encourage Society/Regional Entity Conferences on shared sponsorship basis: Societies shall be required to notify Regions and Sections, at the very beginning of their Conference planning, of their intention to hold a conference in the local area and solicit the collaboration of that Region and Section.</td>
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<td>22.</td>
<td>Public Awareness: IEEE should develop a comprehensive set of programs to promote public awareness of engineering, starting at the grade school level.</td>
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<td>23.</td>
<td>The IEEE should develop teaching materials to teach problem solving skills and critical thinking to K-12 students, to prepare more students to pursue engineering.</td>
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<td>24.</td>
<td>Industry relations: IEEE should provide funding to deploy experienced IEEE volunteers as ambassadors to promote IEEE products, services &amp; benefits in order to establish partnerships with industry.</td>
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<td>25.</td>
<td>IEEE must hire top level corporate staff executives from outside North America, incorporating multicultural expertise (need for global staff to respond to needs of a global IEEE).</td>
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<td>26.</td>
<td>Rationalization of Institutional Fee Structure - The IEEE shall create a fee structure for IEL services to universities and industries to encourage and reward IEEE membership within those institutions and to provide affordability for small institutions.</td>
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<td>27.</td>
<td>IEEE shall execute a formal process to determine what the vision and mission of the IEEE must be to demonstrate its relevancy to the government, industry, future and current members, and the public. It should be approved by the delegates at the next Sections Congress.</td>
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<td>28.</td>
<td>IEEE should create a repository / database of previous meeting topics and speakers populated with data from the L31 reports that is WEB accessible by Sections.</td>
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<td>29.</td>
<td>IEEE re-implement ROOT and improve introductory packages for all Section and Chapter officers (like the core training CD)</td>
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<td>30.</td>
<td>IEEE needs to enhance membership value by providing a free Society membership as part of membership dues.</td>
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<td>31.</td>
<td>IEEE must provide specific additional products and services to members from industry /consultancy/ government (practicing engineers).</td>
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<td>32.</td>
<td>IEEE should expand the Institute wide awards and recognition in the following areas: Outstanding communication with members (electronic print, or other media) to a large section and a small section; Industry executive for outstanding support of IEEE activities to a large section and a small section.</td>
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<td>33.</td>
<td>SPECTRUM &quot;Opt-Out&quot; - The IEEE shall add an &quot;Opt Out&quot; for paper subscriptions to SPECTRUM.</td>
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<td>34.</td>
<td>Career Viability: The IEEE should engage industry, academia and governments to promote the life-long career through commensurate compensation, continuing education &amp; professionalism of the engineer.</td>
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<tr>
<td>35.</td>
<td>IEEE should improve service to members by reducing the cost to employers for posting jobs on the IEEE job site.</td>
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<td>36.</td>
<td>Chapters should be jointly accountable to Sections and Societies in order to enhance section-chapter relationship.</td>
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<td>37.</td>
<td>In order to achieve increased senior membership, create a collaborative web process to allow section nominations, addition of data by candidates and coordination of references. Allow non-IEEE members who are scientific professionals to serve as references.</td>
</tr>
<tr>
<td>38.</td>
<td>Establish an IEEE Congress: Evolve Sections Congress into an all IEEE Congress including Society Leadership with the same basic goals as Sections Congress, namely: To understand the fundamental issues and to recommend solutions and opportunities to guide the future of IEEE. To train Section and Society leaders. To facilitate a dialog among Section and Society leaders.</td>
</tr>
<tr>
<td>39.</td>
<td>IEEE implement member services in all six official United Nations languages by: Completing recommendation #38 SC99*; Promoting language support on forms and services; Sourcing funds from PS2B and/or RAB</td>
</tr>
<tr>
<td>40.</td>
<td>Member Services: The use of IEEE Debit/Credit card should be offered with concentration banking accounts.</td>
</tr>
</tbody>
</table>

* SC99 #38: Implement the use of more than one language in IEEE web communication; promotional material; and member communication. Regions should recommend that appropriate languages for their region.