TECHNICAL COMMITTEES - OPERATIONAL FRAMEWORK

To be Approved
by
Industrial Electronics Society (IES)

Adcom Meeting, June 6-7 , Vigo Spain

Periodical reports & Budget proposals

- There are three AdCom meetings per year: one in Spring, one in Summer (usually at ISIE) and one in the Fall/Autumn (usually at IECON).
- Just before each AdCom meeting, there is usually a meeting of the Technical Committee chairs (or their representatives), chaired by the Vice President for Technical Activities.
- The TC Chairs should present a report at each of these meetings.
- The reports should be brief, summarising in one (maximum two if necessary) A4 page: a) activities developed since the last report presented, b) outline of forthcoming activities for the next reporting period and c) a statement of how much of the budget allocated to the TC for that year was spent by the report date (in general terms not details).
- The reports should be sent to the VP for technical activities at least 3 weeks in advance of the meeting and then it should be briefly presented at the meeting.
- The Fall report (last in a calendar year, at IECON) is a more special one, reporting on the activities for that full year ending, and including the Activity Plan and budget proposal of the TC for the following calendar year. This may not be synchronised with the general budget planning process of the IES and may not fit in its time scale, but it will ease the technical committees reporting and budgeting process.
-

Duration and procedure of TC Chairs appointment

- A minimum of 5 committee members (preferably members of IES) for each TC.
- A TC chair should be a Senior Member or a fellow of the IEEE and member of the IES.
- Proposals /nominations for Chairs can come from their committee members (in case of existing technical committees), from officers of IES or any member of the IES.
- All TC chairs must be appointed by the President, as they are automatically members of AdCom.
- In case of existing committees, it is expected that the existing chair is identifying / suggesting a replacement, based on professionalism and activism.
- TC chairs should normally be in position for two years, a period coinciding with the rotation of IEEE IES presidency. However, the same TC chair may be in position for a consecutive period and be appointed by the President.
- TC chairs should start their role from the Fall/Autumn AdCom meeting, for two years.
- Proposals should be made in the period preceding the Fall AdCom, will be reviewed by the VP Technical Activities and another FIVE other members. The TC chair will be appointed by the President, and then be endorsed by Adcom.
- The VP for Technical activities as the chair and another FIVE IES officers will form a technical committee to review the activity of Technical Committees at the Fall AdCom every year. For Technical Committees that have been inactive for one year, the review committee may recommend closing or combining with another Technical Committee, depending on the subject area.

List of typical activities of Technical Committees
- Setup and maintenance of a web site
- Associate Editorship of IES Transactions and Magazine
- Guest-Editorship of a special issue of the Transactions or Magazine
- Refereeing of IEEE IES Transactions and Conference papers
- Providing track chairs for IEEE IES conferences
- Organisation of special sessions at IEEE IES Conferences
- Offering tutorials at IEEE IES conferences in their area of expertise
- Contributing to the organisation of the major IEEE IES conferences in significant roles (General Chairs, Technical Programme Chairs, track chairs, etc.)
- Organising prizes and awards for outstanding work in their technical subjects
- Advertising conferences and workshops in their area of expertise
- Contributions with articles to the IES magazine and Transactions papers
- Recruiting new members for the IES and the respective committee

List of Technical Committees, technical topics of focus and current chairs

Technical Review Committee

```
VP for Technical Activities (Chair)
President (Ex-officio)
Treasurer or Assistant Treasurer
4 other committee members
```

## 1.	Building Automation, Control and Management

```
Dietmar Dietrich - Chair
Gerhard Hancke - Vice Chair
Peter Palensky - Secretary
Subcommittees
```
. Web page, PR, Newsletter
. Publications
. Technology and Standards
. Remote Access & Web Services
. IP-based Control Networks
. Facility Management
. Wireless Field Level Networks
. Safety & Security
. CAD, Modelling and Simulation
. Applications
. Home automation

```
Web page: http://www.ies-bacm.org/
```

## 2.	Computer and Control Systems

```
H. Hashimoto - Chair
Subcommittees
Computational Intelligence
Signal Processing Control
```

## 3.	Education in Engineering and Industrial Technologies

```
Seta Bogosyan - Chair
```

Luis Gomes - Co-chair
Subcommittees
- Distance learning
- Remote engineering
- Virtual instrumentation
- Virtual and remote laboratories
- Industrial technologies and high-school education
Web page: http://www.uninova.pt/gres/iestcedu/

4. Electrical Machines

B. Fahimi - Chair
Subcommittees
- Small Machines, Servos and Actuators (DC, AC sinusoidal, AC non-sinusoidal)
- Special Machines (PM, VR, supraconductors
- Thermal, Acoustic Noise and Vibration Aspects
- Measurements and Testing
- Monitoring and Diagnosis
- Insulation
- Use of Advanced Materials (permanent magnet, sheet materials, powder metallurgy)
- Transformers and Coils
- Linear Drives and Magnetic Levitation
- Inductive Energy Transfer
- Micromachines, Nanomachines and MEMS
- Teaching

5. Factory Automation

Richard Zurawski - Chair
Subcommittees

- FA1 Automated Manufacturingand Control Systems
  <*http://iestcfa.org/committees/sc1.htm*>
- FA2 Development Methodology for Industrial Communication and Automated Manufacturing Systems
  <*http://iestcfa.org/committees/sc2.htm*>
- FA3. Information Technology in Industrial and Factory Automation
  <*http://iestcfa.org/committees/sc3.htm*>
- FA4. Industrial and Factory Communication Systems
  <*http://iestcfa.org/committees/sc4.htm*>
- FA5. Wireless & Mobile Networks in Industrial & Factory Automation
  <*http://iestcfa.org/committees/sc5.htm*>
- FA6. SEMI Interface and Communication
  <*http://iestcfa.org/committees/sc6.htm*>
- FA7. Security inIndustrial & Factory Automation
  <*http://iestcfa.org/committees/sc7.htm*>
- FA8. Real-Time Systems in Industrial & Factory Automation
  <*http://iestcfa.org/committees/sc8.htm*>
- FA9. Embedded Systems inIndustrial & Factory Automation
  <*http://iestcfa.org/committees/sc9.htm*>
- FA10. Intelligent Sensors and Sensor Networks in Industrial & Factory Automation
  <*http://iestcfa.org/committees/sc10.htm*>
- FA11. Automotive Electronic and Embedded Systems
  <*http://iestcfa.org/committees/sc11.htm*>
- FA12. Industrial Information Technology in Energy and Power Systems
  <*http://iestcfa.org/committees/sc13.htm*>

Web page: http://www.iestcfa.org/

6. Industrial Agents

```
A.W. Colombo - Chair
M. Ulieru - Co-Chair
Subcommittees
- Intelligent Components and System Architectures
- Intelligent Supervision
- Intelligent Communications and Standards
- Intelligent Components and Collaboration
- Collaborative Networks
- Infrastructure (Manufacturing)
- Infrastructure (Transport)
- Infrastructure (Process)
- Review for Conferences and Transactions WebPage
```
Web page: http://www.tcia.ipb.pt/

7. Industrial Informatics

```
Tharam Dillon - Chair
Elizabeth Chang - Vice Chair
Subcommittees
- Mechatronics
- Factory Automation and Network Environment
- Self-managing Database Systems
- Security and Privacy Proposal
- Emergence and Complexity in Industrial Informatics
- Biometrics Technologies, http://www.ucalgary.ca/ies-tc/
```


8. Integrated Manufacturing and Service System

```
Khiang Wee Lim - Chair
Jing Bing Zhang - Vice Chair
Frank Lewis
James Moyne
Jay Lee
Jose Romagnoli
Jun Ni
Matteo Savino
Ming Luo
Robert Gay
Weng Khuen Ho
```
Web page: http://www.simtech.a-star.edu.sg/imss/

9. Electronic Systems on Chip (ESOC)

```
Marcian Cirstea - Chair
Manus Henry    - Vice-Chair
Subcommittees
- Special Conference Sessions Organizations
- Special Issues / Sections of Journals
- Review for Conferences and Transactions
Web page: http://vega.unitbv.ro/~ieee/Anticipated
```


10. Motion Control

```
Roberto Oboe - Chair
Raymond de Callafon
Makoto Iwasaki
Maarten Steinbuch
```

Web page: http://www.ing.unitn.it/~oboer/MC.htm

11. Nanotechnologies

Y. Tzeng - Chair
Web page: http://140.116.176.21/nanotech/

12. Network-based Control Systems and Applications

Chair: Mo-Yuen Chow
Co-Chair : Josep Fuertes
Co-Chair : Hediki Hashimoto

Members:
Timothy Chang
J.J. Lee
Suk Lee
Julian Jose Salt Llobregat
Marga Marcos
Roberto Oboe
Kouhei Ohnishi
Yodyium Tipsuwan
Xinghuo Yu

Subcommittees:
- Applications
- Network-based Control technical issues
- Transactions and Conferences review
- Special sessions/education
Web: Web page: http://iml.cpe.ku.ac.th/ies/

13. Power Electronics

G. Asher - Chair
Subcommittees:
- Motor and Generator Drives
- Power Electronic Converters
- Power Electronics and Power Quality
- Power Electronics Applications in Power Systems and Utilities
- Power Electronics Applications in Aerospace and Surface Transport
Web page: http://conf05.iitkgp.ac.in/pes/

14. Sensor and Actuators

Ren C. Luo - Chair
Subcommittees:
- Intelligent Sensors and Actuators
- Micro/Nano Technology
- MEMS

15. Standards Coordinating Committee

J. Pimentel - Chair
Web page: http://standards.ieee-ies.org/~jpimente/standards/

Compiled by
Kim Man,
VP for Technical Activities
January 18, 2007