

**IEEE PES
SUBSTATIONS COMMITTEE
ANNUAL MEETING
MONTREAL
May 17 - 20, 2010**

SUBSTATIONS COMMITTEE OFFICERS (2009 – 2010)

- **Chair** **Hermann J. Koch**
Siemens

- **Vice Chair** **John D. Randolph**
Pacific Gas and Electric

- **Secretary** **Mike Dood**
Schweitzer Engineering Laboratories

These are the only persons who have to respond to IEEE regarding the L50-S annual financial report.

NEW SUBSTATIONS COMMITTEE OFFICER in 2010

Secretary for 2011-2012

- **Mark Etter**
ABB Inc.
3 Independence Way
Suite 206
Princeton, NJ 08540
tel (732) 932-6250
fax (732) 932-6272
markus.etter@us.abb.com

SUBSTATIONS COMMITTEE PAST CHAIRMEN

- **Past Chair** **R. S. (Bob) Nowell**
Georgia Power Company
- **Past² Chair** **Hanna E. Abdalla**
Power Engineers
- **Past³ Chair** **A. P. (Sakis) Meliopoulos**
Georgia Tech
- **Past⁴ Chair** **John D. McDonald**
GE Energy (IEEE Division VII Director)



POWER & ENERGY SOCIETY COMMITTEE REPRESENTATION

John McDonald

Power & Energy Editorial Board

R. S. (Bob) Nowell

Technical Council Organization and Procedures Committee

George Karady

Transactions on Power Delivery Editorial Board

John Randolph

Technical Council Technical Sessions Committee

Hubert Bilodeau

**Technical Council Awards Committee
PES Awards Committee**



POWER & ENERGY SOCIETY COMMITTEE REPRESENTATION continued

Hamid Sharifnia

Technical Council Standards Coordinating Committee

Wayne Litzenberger

Representation to Emerging Technologies

Jack Christofersen

Gary Engmann

Bruce Dietzman

Ken White

**C2 National Electrical Safety Code
Subcommittee 3 - Electric Supply Stations**

Hanna E. Abdallah

**US National Committee of CIGRE
Study Committee B3- Substations**

- **IEEE-SA Review Committee (Rev Com)**
- **IEEE-SA Audit Committee (Aud Com)**
- **IEEE Standards Board**

Sam Sciacca

CEO

CG Automation

92 Cogwheel Lane

Seymour, CT 06483

203-888-3002 ext 301

203-888-7640 (fax)

samuel.sciacca@cgglobal.com



Power & Energy Society™

IEEE POWER & ENERGY SOCIETY / SUBSTATIONS COMMITTEE

CHAIR Hermann J. Koch Siemens AG, E T Q12 Freyeslebenstr. 1 Erlangen, Germany 91058 Phone: +49 9131 733862 Fax: +49 9131 734490 Email: hermann.koch@siemens.com	VICE CHAIR John Randolph Pacific Gas & Electric 1919 Webster St. (Room 309) Oakland, CA 94612 Phone: 510-874-2680 Fax: 510-874-2507 Email: jdr9@pge.com	SECRETARY Mike Dood Schweitzer Engineering Laboratories 15350 W. National Avenue - Suite 205 New Berlin, WI 53151-5119 Phone: 262-789-8268 Fax: 262-789-8470 Email: mike.dood@selinc.com
---	---	--

MONTRÉAL MEETING INFO AVAILABLE

News

[Association MGMT System.](#)
[Instructions](#)

Next Meetings

[Montreal, Canada - May 16-21 2010](#)

****REQUIRES PASSPORT****

Nashville Fall 2010 (Exact dates TBD)

Past Meetings

IEEE-SA

Email Address Alias

Industry Calendar

International Committees

Awards Information

Albums of Pictures

Past Officers

SUBCOMMITTEES

[SCB0 - Administrative Subcommittee](#)
[SCC0 - Data Acquisition, Processing, and Control Systems Subcommittee](#)
[SCD0 - Transmission and Distribution Substations Design Subcommittee](#)
[SCE0 - Transmission and Distribution Substations Operations Subcommittee](#)
[SCH0 - Recognition and Awards](#)
[SCI0 - High Voltage Power Electronics Stations](#)
[SCK0 - Gas Insulated Substations](#)
[SCM0 - Meetings](#)
[SCS0 - Standards](#)

- [Organizational Chart](#)
- [Brochure](#)
- [IEEE Slide on Patents](#)
- [IEEE Code of Ethics.pdf](#)

PASSWORD PROTECTED FILES Security Information

[2009 IEEE STANDARDS STYLE MANUAL](#)
[IEEE Standards Interpretations](#)

Contact chaahr@segainc.com for assistance.
[IEEE prohibits discrimination, harassment and bullying. For more information, click here](#)

Webmaster: Chuck Haahr
chaahr@segainc.com

SUBSTATIONS SUBCOMMITTEE BROCHURE

IEEE/PES SUBSTATIONS COMMITTEE



The Substations Committee is one of the Technical Committees under the direction of the Technical Council of the IEEE Power and Energy Society. The Substations Committee is the professional home for all engineers involved in the design and operation of generation, transmission and distribution substations. Participating in the activities of the Substations Committee provides individuals with a unique opportunity to expand their knowledge and expertise through the exchange of views, information and practices with fellow engineers both nationwide and internationally. The Substations Committee of the IEEE Power and Energy Society is continually open to new members from all countries who may be interested in the activities of the various Subcommittees and associated Working Groups and Task Forces.

The Substations Committee convenes annually. The annual spring meeting is staged at a North American city and is normally sponsored by the respective regional power utilities. The Substations Committee's activities consist of the development of industry standards and guides, technical paper preparations and presentations, panel discussions, round table discussions and participation in the IEEE/PES General Meeting. Those who do serve are truly rewarded by the enrichment they receive towards their professional background.

A listing of the main Committee, all Subcommittees, Working Groups and Task Forces showing the scope of each group is shown in this brochure. Also included are the names, addresses, telephone numbers and email addresses of the main Committee, Subcommittee, Working Group and Task Force chairpersons. If you are interested in any activity of the Substations Committee, please contact the appropriate Chairperson, call any of the officers, and see our web page at http://www.ap-concepts.com/ieee_substations.htm.

<p>CHAIR Hermann J. Koch Siemens AG, E T Q12 Freyeslebenstrasse 1 Erlangen, Germany 91058 Phone: +49 9131 733862 Fax: +49 9131 734490 Email: hermann.koch@siemens.com</p>	<p>VICE CHAIR John Randolph Pacific Gas & Electric 1919 Webster St. (Room 309) Oakland, CA 94612 Phone: 510-874-2680 Fax: 510-874-2507 jdr@pge.com</p>	<p>SECRETARY Mike Dood Schweitzer Engineering Laboratories 16350 W. National Avenue - Suite 206 New Berlin, WI 53151-5119 Phone: 262-789-8268 Fax: 262-789-8470 Email: mike_dood@selinc.com</p>
--	--	--

Updated
Status 2010-05-06

SUBSTATIONS COMMITTEE ORGANIZATION & PROCEDURE MANUAL

**IEEE POWER AND ENERGY SOCIETY
SUBSTATIONS COMMITTEE
ORGANIZATION AND PROCEDURES MANUAL**

Revision: April 2009

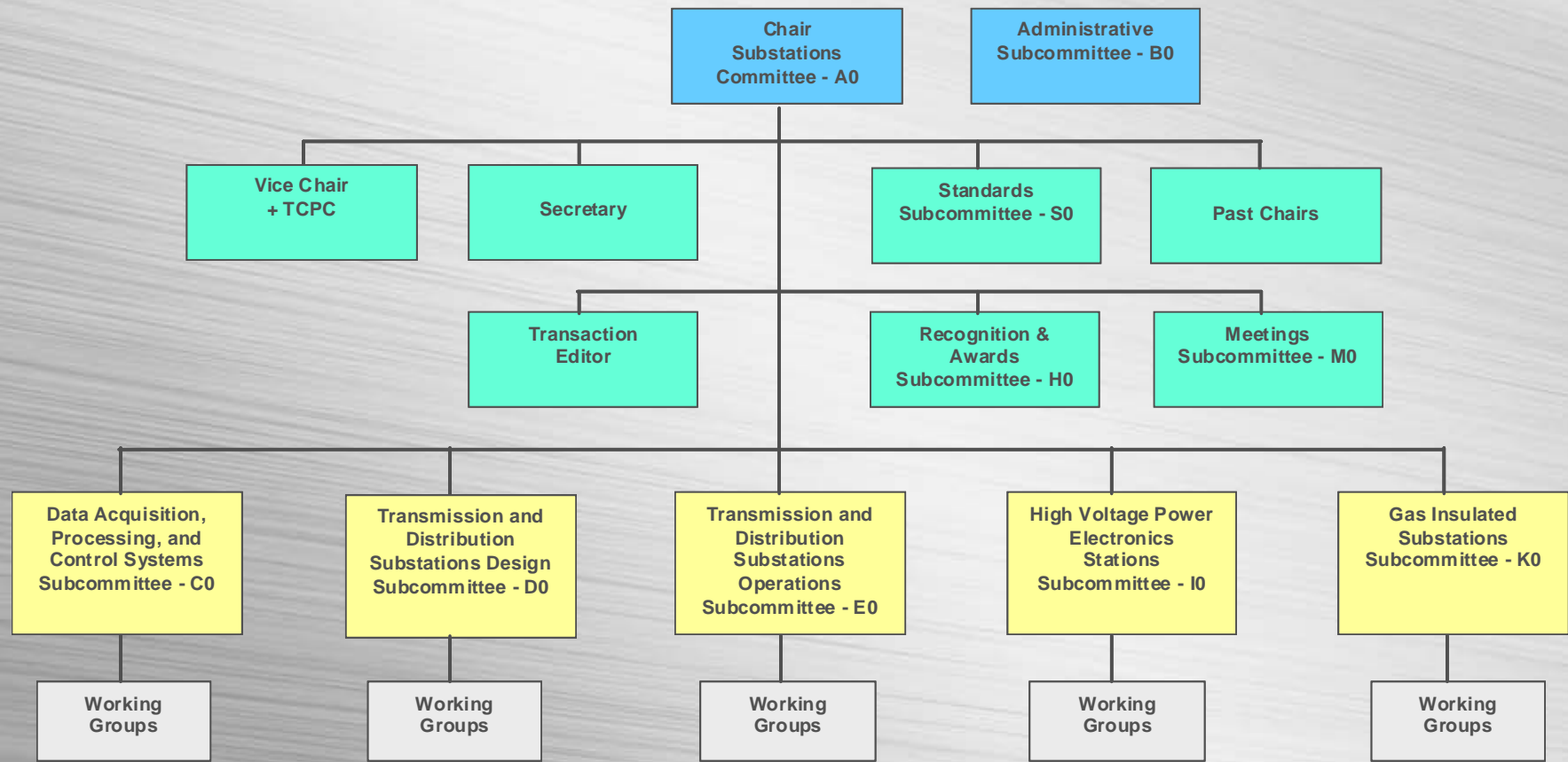
Content

1. INTRODUCTION
2. PURPOSE OF THE ORGANIZATION AND PROCEDURES MANUAL
3. SCOPE
4. ORGANIZATION
5. RESPONSIBILITIES
6. OFFICERS
7. MEMBERSHIP
8. TRANSACTIONS EDITOR
9. SUBCOMMITTEES
10. WORKING GROUPS
11. MEETINGS
12. VOTE
13. PROCEDURES
14. GENERATION OF IEEE STANDARDS
15. BALLOTING GROUP FOR A STANDARD
16. COMMUNICATIONS
17. TASK FORCE, WORKING GROUP, AND SUBCOMMITTEE PUBLICATIONS
18. INTERPRETATIONS
19. APPEAL

Has been revised by Bob Nowell and will be voted by B0 this meeting!

SUBSTATIONS ORGANIZATION

An Energized Future



SUBSTATIONS ADMINISTRATIVE SUBCOMMITTEES

Chair

- B0 - ADMINISTRATIVE SUBCOMMITTEE Hermann Koch
- H0 - RECOGNITION & AWARDS SUBCOMMITTEE Hubert Bilodeau
- M0 - MEETINGS SUBCOMMITTEE Diane Watkins
- S0 - STANDARDS SUBCOMMITTEE Hamid Sharifnia

SUBSTATIONS SUBCOMMITTEES

Chair

- C0 - DATA ACQUISITION, PROCESSING, AND CONTROL SYSTEMS SUBCOMMITTEE
Craig Preuss
- D0 - TRANSMISSION AND DISTRIBUTION SUBSTATIONS DESIGN SUBCOMMITTEE
Rich Keil
- E0 - TRANSMISSION AND DISTRIBUTION SUBSTATIONS OPERATIONS SUBCOMMITTEE
Randy Clelland
- I0 - HIGH VOLTAGE POWER ELECTRONICS STATIONS SUBCOMMITTEE
Chris Horwill
- K0 - GAS INSULATED SUBSTATIONS SUBCOMMITTEE
Arun Arora

WG B2 – LIAISON

Arun Arora

Report about

- C0 to PSCC
- I0 to T&D Committee
- K0 to Switchgear Committee

WG B4 - FELLOW

John Tengdin

Promote and support nominations for Substations Engineers for IEEE Fellow Member Status



DATA ACQUISITION, PROCESSING, AND CONTROL SYSTEMS SUBCOMMITTEE - C0

WORKING GROUP C1 - SUBSTATION INTELLIGENT ELECTRONIC DEVICES (IED) CYBER SECURITY STANDARDS

Sam Sciacca

WORKING GROUP C2 - STANDARD ENVIRON & TESTING REQUIREMENTS FOR COMMUNICATIONS NETWORKING DEVICES IN ELECTRIC POWER SUBSTATIONS

John Tengdin

WORKING GROUP C3 - STANDARD FOR SCADA AND AUTOMATION SYSTEMS

Craig Preuss

WORKING GROUP C4 - TRIAL USE STANDARD FOR CYBER SECURITY OF SERIAL SCADA LINKS AND IEC REMOTE ACCESS

John Tengdin

WORKING GROUP C5 - STANDARD ELECTRICAL POWER SYSTEM DEVICE FUNCTION NUMBERS AND CONTACT DESIGNATIONS

John Tengdin

WORKING GROUP C6 - TRIAL USE STANDARD FOR A CRYPTOGRAPHIC PROTOCOL FOR CYBER SECURITY OF SUBSTATION SERIAL LINKS

Dave Whitehead

WORKING GROUP C7 - PROFILE FOR PROTECTION AND AUTOMATION IEDs

Tim Tibbals

DATA ACQUISITION, PROCESSING, AND CONTROL SYSTEMS SUBCOMMITTEE - C0

WORKING GROUP C8 - RECOMMENDED PRACTICES FOR
NETWORK COMMUNICATIONS IN A SUBSTATION

Michael Thesing

WORKING GROUP C9 - STANDARD COMMUNICATION DELIVERY
TIME PERFORMANCE REQUIREMENTS FOR ELECTRIC POWER
SUBSTATION AUTOMATION

John Tengdin

WORKING GROUP C10 - JOINT C10 AND PSRC H13 WG ON
REQUIREMENT AND APPLICATION OF THE SUBSTATION CYBER
SECURITY

Sam Sciacca

WORKING GROUP C11 - RECOMMENDED PRACTICE FOR DATA
COMMUNICATIONS BETWEEN RTUs & IEDs IN A SUBSTATION

Lee Smith

WORKING GROUP C12 - DNP 3.0 STANDARD ENVIRONMENTAL
AND TESTING REQUIREMENTS FOR COMMUNICATION NET-
WORKING DEVICES IN ELECTRIC POWER SUBSTATIONS

Lee Smith

WORKING GROUP C13 - STANDARD TEST METHOD OF USE IN THE
EVALUATION OF MESSAGE COMMUNICATIONS BETWEEN
INTELLIGENT ELECTRONIC DEVICES IN AN INTEGRATED SUBSTA-
TION PROTECTION CONTROL, AND DATA ACQUISITION SYSTEM

NN

TRANSMISSION AND DISTRIBUTION SUBSTATIONS DESIGN SUBCOMMITTEE - D0

WORKING GROUP D1 - GUIDE FOR RECOMMENDED ELECT CLEARANCES & INSUL LEVELS IN AIR INSULATED ELECTRIC POWER SUBSTATIONS	Hamid Sharifnia
WORKING GROUP D2 (F2) – GUIDE FOR DESIGN & INSTALLATION IN CABLE SYSTEMS IN SUBSTATIONS	Debra Longtin
WORKING GROUP D3 - GUIDE FOR THE DESIGN OF SUBSTATIONS BUS STRUCTURES	Hanna Abdallah
WORKING GROUP D4 (F1) - RECOMMENDED PRACTICES FOR SEISMIC DESIGN OF SUBSTATIONS	Erik Fujisaki
WORKING GROUP D5 - GUIDE FOR DIRECT LIGHTNING STROKE SHIELDING OF SUBSTATIONS	Bob Nowell
WORKING GROUP D6 (F0b) – RECOMMENDED PRACTICE FOR THE DESIGN OF FLEXIBLE BUSWORK LOCATED IN SEISMICALLY ACTIVE AREAS	Jean-B. Dastous
WORKING GROUP D7 - GUIDE FOR SAFETY IN AC SUBSTATION GROUNDING	Richard Keil
WORKING GROUP D8 - GUIDE FOR DEVELOPMENT OF SPECIFICATIONS FOR TURNKEY SUBSTATION PROJECTS	Arun Arora
WORKING GROUP D9 - AC/DC SYSTEMS	Hanna Abdallah



TRANSMISSION AND DISTRIBUTION SUBSTATIONS OPERATIONS SUBCOMMITTEE - E0

WORKING GROUP E1 (G2) - GUIDE FOR THE DESIGN, CONSTRUCTION & OPERATION OF ELECTRIC POWER SUBSTATIONS FOR COMMUNITY ACCEPTANCE AND ENVIRONMENTAL COMPATIBILITY

Diane Watkins

WORKING GROUP E2 (G2) – GUIDE FOR CONTAINMENT AND CONTROL OF OIL SPILLS IN SUBSTATIONS

James Sosinski

WORKING GROUP E3 (F3) - GUIDE FOR SUBSTATION FIRE PROTECTION

Don Delcourt

WORKING GROUP E4 (D4) - GUIDE FOR TEMPORARY PROTECTIVE GROUNDING SYSTEMS USED IN SUBSTATIONS

Lane Garrett

WORKING GROUP E4 - GUIDE FOR THE SAFE INSTALLATION OF MOBILE SUBSTATION EQUIPMENT

Lane Garrett



TRANSMISSION AND DISTRIBUTION SUBSTATIONS OPERATIONS SUBCOMMITTEE - E0

WORKING GROUP E5 (G3) - GUIDE FOR ANIMAL DETERRENTS FOR ELECTRIC POWER SUPPLY STATIONS

Mike Bio

WORKING GROUP E6 (D6) - GUIDE FOR MEASURING EARTH RESISTIVITY, GROUND IMPEDANCE, AND EARTH SURFACE POTENTIALS OF A GROUNDING SYSTEM

Dennis DeCosta

WORKING GROUP E7 (G3) - GUIDE FOR ELECTRIC POWER SUBSTATION PHYSICAL AND ELECTRONIC SECURITY

Hassein Bashirian

WORKING GROUP E9 (D9) - STD FOR QUALIFYING PERMANENT CONNECTIONS USED IN ELECTRICAL POWER SUBSTATION GROUNDING

David Kelley

HIGH VOLTAGE POWER ELECTRONICS STATIONS SUBCOMMITTEE - 10

WORKING GROUP 11 - RECOMMENDED PRACTICE TO TEST
PROCEDURE FOR HVDC THYRISTOR VALVES

George Karady

WORKING GROUP 12 - RECOMMENDED PRACTICE FOR
SPECIFYING THYRISTOR CONTROLLED SERIES CAPS

George Karady

WORKING GROUP 14 - GUIDE FOR THE FUNCTIONAL SPECIFICATION
OF TRANSMISSION STATIC VAR COMPEN-SATORS

Heinz Tyll

WORKING GROUP 15 - GUIDE FOR THE EVALUATION OF THE
RELIABILITY OF HVDC CONVERTER STATIONS

Ben Mehraban

WORKING GROUP 18 - GUIDE FOR CONTROL ARCHITECTURE FOR
HIGH POWER ELECTRONIC USED IN ELEC-TRICAL POWER TRANS. &
DISTR. SYSTEMS

Nari Hingorani

GAS INSULATED SUBSTATIONS SUBCOMMITTEE - K0

WORKING GROUP K1 - STANDARD FOR HIGH VOLTAGE
GAS-INSULATED SUBSTATIONS, RATED ABOVE 52 KV

John Brunke

WORKING GROUP K2- TUTORIALS AND PANEL SESSIONS
GIS/GIL/SF6

Hermann Koch

WORKING GROUP K3 – GUIDE FOR APPLICATION OF
GAS-INSULATED SUBSTATIONS (GIS) 1 KV UP TO 52 KV

George Becker

WORKING GROUP K4 – GUIDE FOR SULPHUR HEXAFLUORIDE (SF6)
GAS HANDLING FOR HIGH VOLTAGE EQUIPMENT

Luke van der Zel

WORKING GROUP K5 – GIL APPLICATION GUIDE

Darin Penner

WORKING GROUP K6 – GIS USER GROUP

Venkatesh Minisandram

GAS INSULATED SUBSTATIONS SUBCOMMITTEE - K0

WORKING GROUP K7 - REVISION OF STANDARD FOR BUSHING FOR HIGH VOLTAGE (OVER 1000 V AC) CIRCUIT BREAKERS AND GAS INSULATED SWITCHGEAR

[Devki Sharma](#)

WORKING GROUP K8 - GUIDE FOR MOISTURE MEASUREMENT AND CONTROL IN SF6 GAS INSULATED EQUIPMENT

[David Giegel](#)

WORKING GROUP K9 – RECOMMENDED PRACTICE FOR THE INTERFACE OF NEW GIS EQUIPMENT IN EXISTING GIS'S

[Arnaud Ficheux](#)

WORKING GROUP K11 – GUIDE FOR GIS

[Dave Solhtalab](#)

WORKING GROUP K 12 –GUIDE TO SPECIFICATION FOR GIS ELECTRIC POWER SUBSTATION EQUIPMENT

[George Becker](#)

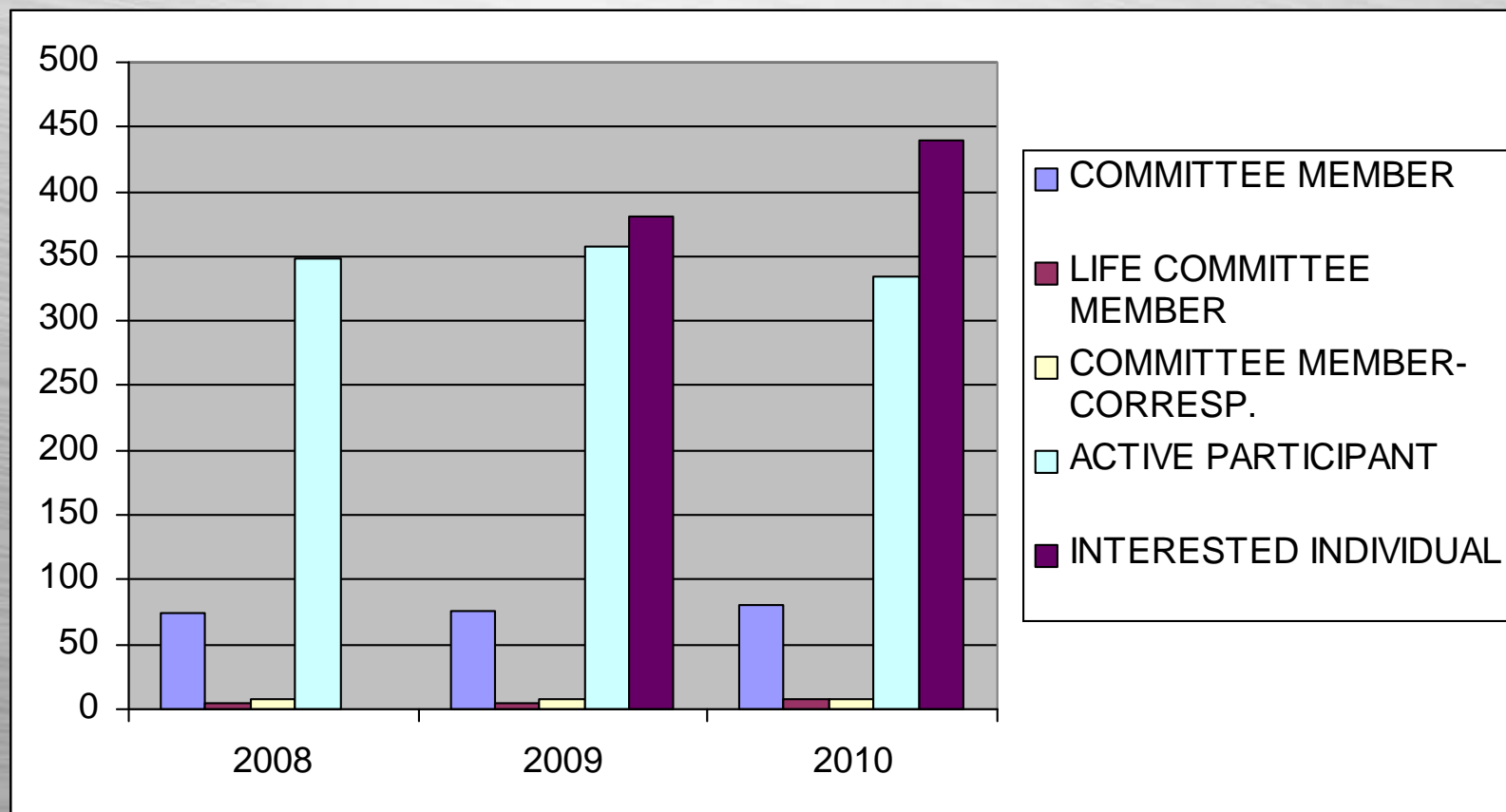
MEMBERSHIP TYPE COMPOSITION

Status 2010 (2009)

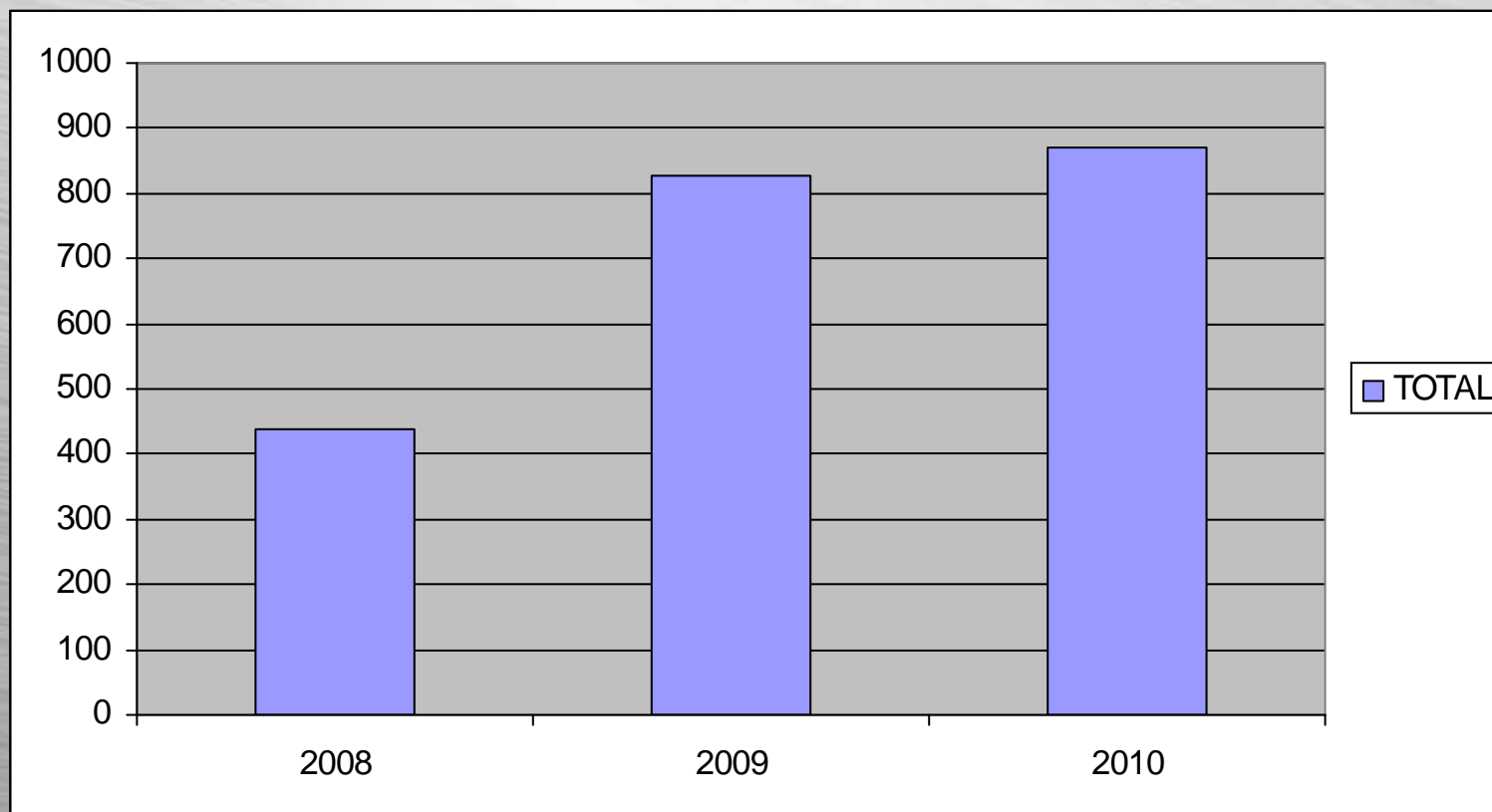
- COMMITTEE MEMBER: 80 (76)
- LIFE COMMITTEE MEMBER: 7 (5)
- COMMITTEE MEMBER-CORRESPONDING: 8 (8)
- ACTIVE PARTICIPANT: 334 (358)
- INTERESTED INDIVIDUAL: 439 (381)

- TOTALS: 871 (828)

WHO WE ARE IN SUBSTATIONS?



TOTAL MEMBERSHIP DEVELOPMENT



NEXT SUBSTATIONS MEETING 2011 CHICAGO

Joint meeting of

- IEEE Substations Committee
- and
- CIGRE B3 Substations Study Committee

15. - 19. May 2011
Chicago, IL, USA

Local organization committee:

Radoslav Barac

GE Infra, Energy

radoslav.barac@ge.com

WHAT EACH OF US EXPECT FROM SUBSTATIONS COMMITTEE

- To be involved in Substation Engineering!
- To meet colleagues and exchange knowledge!
- To contribute to standards, guides, tutorials, panels and discussions!
- To volunteer to leading positions!

**Substations Committee Welcomes You!
Have a nice week in Montreal!**