## IEEE SOUTH AFRICA Section Report June 2011

**Officers:**        **Election Date: Jan 2011**        **Term End Date:** Dec 2012

ExCom:
- Chairman: Jacques van Wyk
- Vice-chair: Vacant
- Past Chair: Saurabh Sinha
- Secretary: Richardt Wilkinson
- Assistant Secretary: Shaun Kaplan
- Treasurer: Jonathan Page

Appointed members:
- Awards & Recognitions: Duncan Baker
- Conference Coordinator: Gerhard Hancke
- Educational Activities: Excellent Sithole
- Membership Devt.: Chego Lloyd
- Electronic Communications Coordinator (ECC): David Kyereahene-Mensah
- Electronic Communications Coordinator (ECC) (Deputy): Jaco du Preez
- Industry Relations / Standards Association: Louwrence Erasmus
- National/Sister Society Coordinator: Willem Cronje
- Nominations & Appointment Committee Chair: Nico Beute
- Professional Activities: Marie-Louise Barry
- Student Activities Coordinator / ISBIR: Joyce Mwangama
- Student Representative: Daniel De Canha

Affinity Group Chairs:
- Women In Engineering (WIE): Chioniso Dube
- GOLD Affinity Group (Northern Region): Keoikantse Marungwana
- GOLD Affinity Group (Southern Region): Shaun Kaplan

Technical Society Chapter Chairs:
- AES-10 (Joint Chapter: Aerospace and Electronic Systems & Geoscience and Remote Sensing): Meena Lysko
- C-16 (Computer): Barry Dwolatzky
- CIS-011 (Computational Intelligence): Andries Engelbrecht
- CS-23/RA-024 (Joint Chapter: Control Systems & Robotics and Automation): Liam Candy
- E-25 (Education): Nico Beute
- ED-15/LEO-36/CAS-004 (Joint Chapter: Electron Devices, Photonics & Circuits and Systems): Monuko Du Plessis
- SP-01/COM-19 (Joint Chapter: Signal Processing & Communications): Sunil Maharaj
- SMC-028 (Systems, man & cybernetics): Alta van der Merwe
- IE-13/IA-34/PEL-35 (Joint Chapter: Industrial Electronics, Industry Applications, and Power Electronics): Richardt Wilkinson
- PE-31 (Power & Energy): Pat Naidoo
- AP-03/MTT-17/EMC-027 (Joint Chapter: Antennas and Propagation, Microwave Theory and Techniques & Electromagnetic Compatibility): Riana Geschke
- IT-12 (Information Theory): Hendrik Ferreira

Council Chapter Chairs:

- Nanotechnology Council Chapter: Suprakas Ray
- Technology Management Council Chapter: Louwrence Erasmus

**Membership:**

As of **30 June 2011**, the IEEE South Africa Section has a total of 1230 active members (1 Honorary Member, 3 Life Fellow, 1 Fellow member, 1 Life Senior, 74 Senior Members, 2 Life Members, 670 Members, 29 Associate Members, 166 Graduate Student Members and 284 Student Members).

**Meetings:**

21-February-2011
IEEE GOLD (Cape Town) committee meeting - SOUTH AFRICA GOLD (CAPE TOWN) AFFINITIY GROUP

21-February-2011
Kick-Start Meeting - GOLD Northern Region - SOUTH AFRICA GOLD (PRETORIA) AFFINITIY GROUP

07-March-2011
IEEE GOLD (Cape Town) committee meeting - SOUTH AFRICA GOLD (CAPE TOWN) AFFINITIY GROUP

09-March-2011
JOINT EMS CHAPTER AND INCOSE SOUTH AFRICA CHAPTER MEETING - SOUTH AFRICA TM14/SYS45 CHAPTER

22-March-2011
IEEE SMCS South Africa Meeting - SOUTH AFRICA SMC28 CHAPTER

22-March-2011
Role of Models in Design - SOUTH AFRICA SMC28 CHAPTER

24-March-2011
GSTM Lecture: The Fukushima tragedy - is Koeberg next? - SOUTH AFRICA TM14/SYS45 CHAPTER

25-March-2011
STEP Event Planning - GOLD Northern Region & Wits SB - SOUTH AFRICA GOLD (PRETORIA) AFFINITIY GROUP

07-April-2011
Introduction to the IEEE Technology Management Council (TMC) & Technical Excellence - SOUTH AFRICA TM14/SYS45 CHAPTER

13-April-2011
IEEE Aerospace and Electronic Systems Society (AESS) Distinguished Lecturer, Dr Surendra Pal, visiting CPUT - SOUTH AFRICA GOLD (CAPE TOWN) AFFINITIY GROUP

15-April-2011
IEEE WIE STAR day at Phateng Comprehensive School, South Africa - SOUTH AFRICA WOMEN IN ENGINEERING AFFINITIY GROUP

20-April-2011
Lectures/Tutorial by Professor Pal, an expert in GNSS, Satellites and Antennas - SOUTH AFRICA AES10/GRS29 CHAPTER

21-April-2011
Lectures/Tutorial by Professor Pal, an expert in GNSS, Satellites and Antennas - SOUTH AFRICA AES10/GRS29 CHAPTER

06-May-2011
IEEE CIS SA Chapter Officers meeting - SOUTH AFRICA CIS11 CHAPTER

11-May-2011
IEEE GOLD Northern Region - Committee Meeting - SOUTH AFRICA GOLD (PRETORIA) AFFINITIY GROUP

16-May-2011
Influencing Change and Promoting Solutions- New Paradigms and Old Verities – History, Trends and Challenges in Signal Processing - SOUTH AFRICA SP01/COM19 CHAPTER

17-May-2011
Influencing Change and Promoting Solutions- New Paradigms and Old Verities – History, Trends and Challenges in Signal Processing - SOUTH AFRICA SP01/COM19 CHAPTER

23-May-2011
WCET & GOLD Northern Region, IEEE South Africa Section discussion - SOUTH AFRICA GOLD (PRETORIA) AFFINITIY GROUP

06-June-2011
IEEE GOLD (Cape Town) committee meeting - SOUTH AFRICA GOLD (CAPE TOWN) AFFINITIY GROUP

09-June-2011
Computer Science Research Workshop - SOUTH AFRICA CIS11 CHAPTER

09-June-2011
Computational Intelligence Society SA Chapter Cheese & Wine - SOUTH AFRICA CIS11 CHAPTER

22-June-2011
Systems Thinking in Practice - SOUTH AFRICA SMC28 CHAPTER


**Activities in the near future:**


11-July-2011
EMI Sources & EMC Technologies - SOUTH AFRICA AP03/MTT17/EMC27 CHAPTER

11-July-2011
EMI - EMC: A Faraday Legacy - SOUTH AFRICA AP03/MTT17/EMC27 CHAPTER

13-15 July 2011
PES chapter **IET Southern African Universities Power Engineering Conference (IET SAUPEC) 2011.**

28 July 2011
IEEE GOLD (Cape Town) welcome braai

12 August 2011
PhD(Eng) lectures: (1) Design Methods for Integrated Switching-Mode Power Amplifiers by Mladen Božanić & (2) LC-Ladder and Capacitive Shunt-Shunt Feedback LNA Modelling for Wideband HBT Receivers by Marnus Weststrate.

15-17 August 2011
SMCS chapter: **Information Security for South Africa - ISSA 2011 conference**

15-17 August 2011
**International Conference on Usage (ICUE) Conference**
(PES supported conference)
Cape Peninsula University of Techology, Bellville Campus
Cape Town,  Western Cape
South Africa

23 August 2011
RF Spectrum - The Past, The Present, and the The Future by Dr Stephen Mncube and Mr Dumisa Ngwenya

7-12 September 2011
AP/MTT/EMC chapter: Visit by Dr Pearlman. Various presentations in Cape Town, Johannesburg and Pretoria

9 September 2011
Communications-Electronics and Enabling Mixed Signal Technologies by Dr Barry Perlman

19 September 2011
Communications-Electronics and Enabling Mixed Signal Technologies by Dr Barry Perlman

**Best practices:**
- Initiated the process to establish a Student Branch at the University of Stellenbosch
- Extensive use of Joomla based website: www.ieee.org.za, although this lead to several successful hacking attempts
- Chapter-by-chapter engagement and development
    Decentralized approach (empowerment of chapters, affinity groups, etc)
- Development of student branch technical chapters
- Using doodle (www.doodle.com) and IEEE volunteer tools (http://meetings.vtools.ieee.org) to administer our activities; easing the administrative load of our committee members. Use of a combination of tools, including Facebook for marketing out events.
- Ensuring IEEE activities count towards continuing professional development (CPD) credits, as required by the Engineering Council of South Africa (ECSA). See: www.ieee.org.za/cpd
- eLearning portal developed – recognized towards CPD, ECSA.


**Topics to be discussed in San Francisco:**

Proposal for Region 8 meeting in August 2012 to be held in South Africa, due to the 35th anniversary of the South Africa Section and the 50th anniversary of Region 8.


Jacques van Wyk
IEEE SOUTH AFRICA Section Chair