



IEEE SOUTH AFRICA SECTION

Prof. Sunil Maharaj (PhD, Pr.Eng)
Chapter Chair: IEEE South Africa Section



University of Pretoria
SENTECH Chair in Broadband Wireless Multimedia Communications (BWMC)
SOUTH AFRICA



copyright © Ontheworldmap.com



**IEEE
ComSoc**
IEEE Communications Society
South Africa Chapter





SOUTH AFRICA

2016

- ✓ First IEEE ComSoc Cognitive Radio Workshop
- ✓ First IEEE ComSoc Summer School in CRN
5 USA based Professors gave Tutorials



G5 & CRN Workshops and Summer School
University of Pretoria
25 - 27 July 2016



National
Research
Foundation



Faculty of Engineering,
Built Environment and
Information Technology

Fakulteit Ingenieurswese, Bou-omgewing en
Inligtingstechnologie / Lefapha la Boetsenere,
Tikologo ya Kago le Theknolotshi ya Tshedimošo

1956 – 2016

60
years of
Engineering
Education

Institute for Cognitive Networking (iCON)

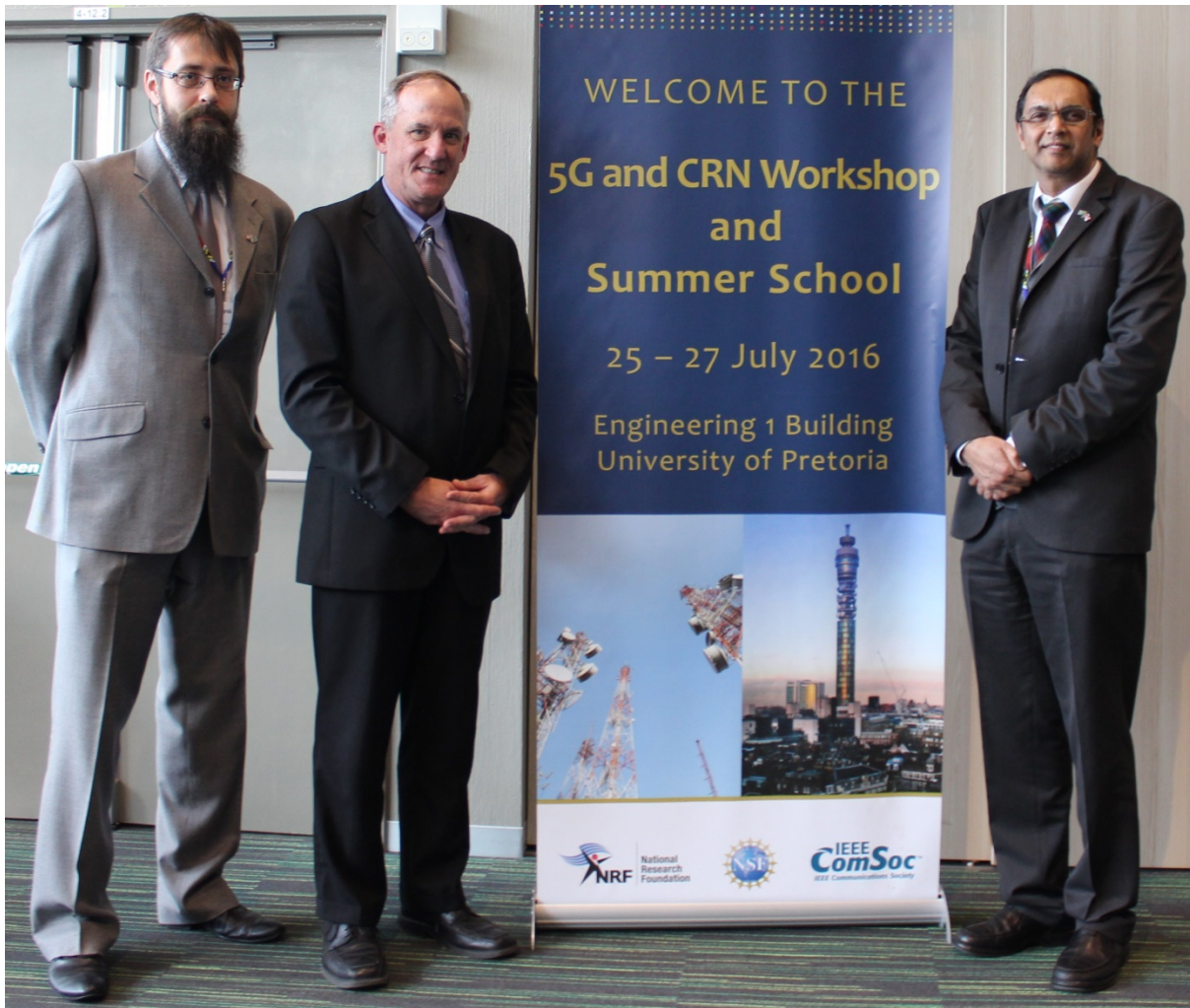
FIRST International Workshop and Summer School on:

5G and Cognitive Networking: *Affordably connecting the next billion*



Faculty of Engineering,
Built Environment and
Information Technology





2016 IEEE President at Summer School

Other Conferences (2017):

- IEEE Africon (R8) Conference: Sept'2017
- 2017 Global Wireless Summit (GWS) – Oct'17

International Visiting Speaker:

- ❑ 3 events (March and May)



AFRICA'S First IEEE: From Tunisia to Cape Town



IEEE SUMMIT

5G IN FUTURE AFRICA

The role of IOT, cognitive
radio and cybersecurity in
networking the next billion

**IEEE
ComSoc™**
IEEE Communications Society
SOUTH AFRICA CHAPTER

3 May 2017

5G Program

A Practical Network Evolution to 5G, Hugo van Zyl, CTIO, Opennserve

Heterogeneous V2X Networks for Connected and Automated Vehicles, Dr. Javier Gozalvez, IEEE VTS President

Advanced Radio Access Solutions for the New 5G Requirements, Prof. Sami Tabbane and Dr. Soumaya Hamouda, Supercom and University of Carthage, Tunis, Tunisia

The Internet of People and Things (IoPT): What will 5G-Enabled Applications Look Like?, Dr. Ed Coyle, Georgia Institute of Technology, USA

Current Research and Standardization Activities on TCP in 5G Type Networks, Dumisa Ngwenya, CTO, Sentech Pty Ltd, South Africa

Is Affordable Broadband in 5G a Challenge or an opportunity? Dr. F. Mekuria, Chief Scientist, CSIR, South Africa

Mathematical Modelling; its Role in “Squeezing” the Most Out of 5G for the IoT, Dr. A. S. Alfa, Professor, University of Manitoba, Canada

Identifying and Quantifying Spectrum Opportunities for 5G, Dr. Melvin Ferreira, Senior Lecturer, Northwest University, SA





75 delegates attended:

- ✓ Industry
- ✓ Government
- ✓ Academia
- ✓ Postgraduate students

Thank You

