

## **Aardvark Little Crow – 10 Nov 2010 – CVs**

### **Johan Strydom**

Johan is the Strategic Research Manager at CSIR DPSS and Competence Area Manager for the recently formed Integrated Systems Group. He has held various positions in the unit including Section Manager, Facility Manager and Quality Manager. He has served on many working groups in CSIR, most recently on the R&D Impact Assessment Framework team and champion of the CSIR Defence and National Security Research Impact Area strategy team. He has more than 25 years experience in the Defence R&D domain and holds a BEng from the University of Stellenbosch and a post graduate degree in the management of technology from the University of Pretoria.

### **Ferdie Potgieter**

Ferdie Potgieter has worked in EW at the CSIR since 2002 and is an AOC member since 2009. As a senior researcher his work involves Electronic Support (ES) research and development on the detection, location and classification of communication and radar emitters. He is also active in the field of Radar Cross Section (RCS) measurement systems and signal analysis, has published IEEE conference papers on emitter classification and presents lectures at the annual SAAF EW systems course.

### **Corne Olivier**

JC Olivier received the B.Eng (Electronics), the M.Eng (Electronics) and the PhD degree all summa cum laude in 1985, 1986 and 1990 respectively from the University of Pretoria. His PhD thesis was on Computational Electromagnetics where he was an early contributor to the development of the now mature Finite Difference Time Domain method (FDTD).

After receiving the PhD, he completed a post doctoral at the National Institute for Defense Research of the CSIR in Pretoria. In 1995 he accepted a position from Daimler Benz Aerospace (Dornier Systems) to work on guided surface wave Radar in Ottawa, Canada. He then accepted a position as a senior research engineer at Bell Northern Research (BNR) also in Ottawa (1997) and in 1999 he joined Nokia Research Center in Irving Texas, U.S.A. as a Principal Scientist.

He returned to South Africa in 2003 with a joint appointment at the University of Pretoria as Professor of Electronics and Computer engineering and Chief Scientist at the CSIR in Pretoria. His research interests are in signal processing, applied statistics, time series analysis and pattern recognition. He serves as an Editor for the IEEE Transactions on Wireless Communications systems and was Technical Program Committee co-chairman for the IEEE ICC 2010 conference which was held in Cape Town SA.

### **Gert Veale**

Gert Veale is a senior RF design engineer at Grintek Ewation. He holds a masters degree in Microelectronics and specialises in RF design (Both in system and component level). At Grintek Ewation he is involved with the design of high performance RF/microwave systems which includes low phase noise synthesizer architectures. He has over 10 years practical experience in the RF R&D environment.

### **Christo Nel**

Christo Nel is a RF design Engineer at Grintek Ewation. He has an Msc. In electronic Engineering from US (Nonlinear Models for CAD). Is is currently involved in receiver related R&D.

### **JP Delport**

JP Delport is an electronic and software engineer currently working at the Optronics competency area of Defence, Peace, Safety and Security of the CSIR. He has been working in the areas of Infrared Electronic Warfare and computer simulation since 1999. Other interests include embedded, distributed and real-time programming as well as computer graphics, vision and security.

### **Thys du Plooy**

Matthys Johannes Uys (Thys) du Plooy obtained his B.Eng (Electronics) in 1988. He has been involved in IR missile research since entering employment at the CSIR at the end of 1988. He received his B.Eng Hons (Photonics) in 1992. He has been involved in the exploitation and evaluation of various IR missile systems, as well as the development and evaluation of aircraft self protection systems. He played a leading role in the development of test equipment used in the test and evaluation of these missile systems. He was also part of the team that developed a two color flare composition in South Africa.

His work also contributed to the successful demonstration of a DIRCM technology demonstrator in South Africa in 2005. This demonstrator has been successfully used during field trials in Germany, where he was also involved in the development of DIRCM codes against a number of IR missile systems. He is currently one of

the most knowledgeable researchers in South Africa, with regards to the protection of aircraft against IR guided missile threats.