

## CONFERENCE AGENDA – Day One

### TUESDAY 9th December 2014

0730 – 0830 Registration & Coffee

0830 - 0930 **KACST - Master of Ceremony**  
Quran Recital – Conference Opening  
**Welcome Address**  
Dr Sultan Almorqi, Director – Advanced Sensors and Electronic Defence (ASED), KACST, Saudi Arabia  
**Keynote Address**  
H.E. Dr. Mohammed bin Ibrahim Al-Suwaiyel, President of KACST, Saudi Arabia  
**Opening Address**  
Abdulrahman Saleh Albunaian, Chief of Staff, Ministry of Defence, Saudi Arabia  
**Opening Address**  
H.H. Dr. Turki Bin Saud Bin Mohammad Al Saud, Vice President of KACST for Research Institutes Riyadh, Saudi Arabia  
**Awards Ceremony**

0930 – 1000 Refreshment Break & Networking

#### Future Trends in Radar Technology

1000 - 1030 **The Evolution of SAR Satellite Missions: Past, Present & Future**  
Professor Fawwaz T. Ulaby, University of Michigan, USA  
1030 – 1100 **Air Defence**  
Royal Saudi Air Force, Saudi Arabia - to be advised by MOD  
1100 – 1130 **AESA Air Defense Radars and Technology Building Blocks**  
Dr. Muhammet Mustafa AKKUL, Director of Radar Programs, Aselsan, Turkey  
1130 - 1200 **Multiband/Multi-frequency Passive Radars**  
Dr. Saleh A. Alshebeili, Electrical Engineering Department, King Saud University, Saudi Arabia

1200 – 1330 Buffet Lunch & Networking

#### Track One - Military & Security Radars

1330 - 1350 **Chairman's Opening Address**  
Air Marshal Philip Sturley CB, MBE, BSc, FRAeS, CCMI, RAF (Retd), UK  
1350 – 1410 **Topic to be Advised**  
Professor Hugh Griffiths, University College London, UK  
1410 – 1430 **Passive Radar**  
Professor Krzysztof Kulpa, Institute of Electronic Systems, University of Warsaw, Poland (invited)

#### Track Two - Radar Technology & Research

**Chairman's Opening Address**  
Professor Mike Inngs, University of Cape Town, South Africa  
**Cognitive Radar**  
Professor Christopher Baker, Ohio State Scholar and Professor of Radar Systems, College of Engineering, Ohio State University, USA \*  
**LPI Radar are no Longer LPI**  
Mohammad Algassim, KACST, Saudi Arabia

1430 - 1500 Refreshment Break & Networking

1500 – 1520 **Sponsor Presentation**  
Stan Hargreaves, Selex ES, UK  
1520 – 1540 **Ground-Slope Parameter Estimation using a 2-D MMW Scanning Radar**  
Dr David Johnson, Australian Centre for Field Robotics, University of Sydney, Australia (invited)  
1540 – 1600 **Non-Cooperative Target Recognition using Radar**  
Willie Nel, Principal Radar Systems Engineer, CSIR, South Africa  
1600 Chairman's Closing Remarks

**Using Micro-Doppler Radar Signals for Human Gait Detection**  
Adel Alzogaiby, KACST, Saudi Arabia  
**Single-Pass Subsurface SAR Focusing for Multiple Point Targets**  
Majid Albahkali, University of Southern California, Los Angeles, USA  
**Topic to be Advised**  
Chairman's Closing Remarks

## CONFERENCE AGENDA – Day Two

### WEDNESDAY, 10th December 2014

0730 – 0815 Registration & Coffee

#### Track One - Military & Security Radars

- 0815 – 0830 **Chairman's Opening Remarks**  
Air Marshal Philip Sturley CB, MBE, BSc, FRAeS, CCMI, RAF (Retd), UK
- 0830 – 0850 **Maritime Security**  
Royal Saudi Navy – to be advised by MOD
- 0850 – 0910 **Possible Implementations of Off-Boresight Tracking in a Monopulse Radar**  
Professor Warren du Plessis, University of Pretoria, South Africa (invited)
- 0910 – 0930 **Independent Verification & Validation (IV&V)**  
Dr Tony Lindsay, Chief of ISR Division, DSTO, Australia (invited)
- 0930 – 0950 **Sponsor Presentation**  
Nico de Bruijn, Thales, The Netherlands

0950 – 1020 Refreshment Break & Networking

- 1020 – 1040 **KACST Presentation**  
Constantine A. Balanis, Arizona State University, USA (invited)
- 1040 – 1100 **Sponsor Presentation**
- 1100 – 1120 **Topic to be Advised**
- 1120 – 1140 **Sponsor Presentation**  
Advanced Electronics Company, Saudi Arabia
- 1140 – 1200 **Operational Considerations for Passive Bistatic Radar**  
Clayton Stewart, PhD, Visiting Professor, Department of Electronic & Electrical Engineering, University College London, USA

1200 – 1330 Buffet Lunch & Networking

- 1330 - 1350 **Border Security**  
Saudi Ministry of Interior – to be advised by MOD
- 1350 – 1410 **Targeting & Tracking**  
Saudi Arabia Speaker – to be advised
- 1410 – 1430 **Sponsor Presentation**
- 1430 – 1450 **Sponsor Presentation**
- 1450 – 1510 Question & Answer Session
- 1510 - 1530 Chairman's Closing Remarks

1530 Refreshment Break, Networking & Close

#### Track Two - Radar Technology & Research

- Chairman's Opening Remarks**  
Professor Mike Inggs, University of Cape Town, South Africa
- KACST Presentation**  
Constantine A. Balanis, Arizona State University, USA (invited)
- Signal & Data Processing – Software Signal Processors**  
Professor Mike Inggs, University of Cape Town, South Africa
- Wideband 2-Dimensional Scanning Planar Subarray**  
Abdullah Alshammary, KACST, Saudi Arabia
- Imaging Radar – Inverse Synthetic Aperture Radar**  
Marco Martorella, University of Pisa, Italy \*

- Radars Applications of Compressed Sensing**  
Dr. Emre Güven, Senior Radar Systems Engineer, Aselsan, Turkey
- Radars Open Systems Architecture**  
MIT Lincoln Labs (invited)
- Sponsor Presentation**  
Selex ES, UK
- OS-CFAR and CA-CFAR Performance Study in Measured Land Clutter**  
Asem Melebari, KACST, Saudi Arabia
- Echoic Flow for Cognitive Guidance and Navigation**  
Saif Alsaif, College of Engineering, Ohio State University, USA

- Initial results from a high resolution X-band radar measurement trial to investigate land target detection performance**  
Mohammed Alafari, KACST, Saudi Arabia
- Detection in Land Clutter**  
Amer Melebari, KACST, Saudi Arabia
- Topic to be Advised**
- Topic to be Advised**
- Question & Answer Session
- Chairman's Closing Remarks

24th September 2014

