

09:30-11:20 Registration, Tea/Coffee and Exhibition

OXFORD ROOM

11:30-12.30 Opening Remarks/Key Note Speakers (Oxford Room)
Mark OWEN (MBDA), Blandine VINSON-ROUCHON (DGA), Dai MORRIS (WECA) & Dave ARMSTRONG (MBDA)

12:30-13:15 Lunch

BUSINESS ROOM

13:15-15:00
DOMAIN OVERVIEWS
Systems and Navigation
Graham WALLIS (MBDA)
Radio Frequency (RF) Seekers
Dr. Thomas MERLET (Thales Optronique S.A.)
Electro-Optic (EO) Sensors
Bob SHEARS (Selex ES)

TECHNICAL ROOM 1

13:15-15:00
MATERIALS
Azad HUSSAIN (MBDA)
Inorganic Composite Materials for High Temperature Component Applications – Extended Performance
Gilles LE PAGE (MBDA) & Magali BATUT-ROLLIN (Pyromeral Systems Ltd)
High Temperature Material – improvement of C/HVN Low Cost CMC
Gerard SAUSSEREAU (MBDA) & Michel PARLIER (Onera)
Ultra-High Temperature Ceramics (UHTCs)
Jon BINNER, Virtudes RUBIO (University of Birmingham) & Terry ACKERMAN (MBDA)
Additively Manufactured Components for Complex Weapons & Related Challenges
Etienne RAUSCHER, Sebastien DAVID & Mike KEMP (MBDA)

TECHNICAL ROOM 2

13:15-15:00
FUZES & SAUS
Jeremy DEAN (Thales)
Solid Plastic Optics for Future Low Cost Proximity Sensors
Bruno CHASSAGNE (ALPhANOV) & Jason COWELL (Thales)
A Low Cost Steerable Antenna for Military Applications
Tian LOH (National Physical Laboratory)
A Variable Effects Initiator
Dick SEDDON (e2v) & Alex BORMAN (University of Lincoln)
Opto-Pyrotechnic Detonics – Evaluation of Laser Diode Reliability Risks Associated with Optical Feedback within an Opto-Pyro Ignition Line
Guillaume PEDROZA & Sebastien ERMENEUX (ALPhANOV)

POSTER AREA

15:00-15:45 Dedicated Poster Session

15:45-16.15 Break and Refreshments

16:15-18:00
DOMAIN OVERVIEWS
Materials
Azad HUSSAIN (MBDA)
Electronics
François CONSEIL (MBDA)
SAUs & Fuzes
Jes DEAN (Thales UK)

16:15-18:00
AIR BREATHING PROPULSION
Frédéric VERDEAUX (SAFRAN Microturbo)
Development of SLM/HIP for Ni-Superalloys
Emilie HERNY (SAFRAN Microturbo)
Non Metallic Materials for Hot Section Components
Emilie HERNY (SAFRAN Microturbo)
Metallic Materials for Cold Section Components
Emilie HERNY (SAFRAN Microturbo)

16:15-18:00
ROOM NOT IN USE

OXFORD GALLERY

19:30 Pre-Dinner Drinks Reception

OXFORD ROOM

20:30 Conference Dinner

08:30-09:00 Registration, Tea/Coffee and Exhibition

BUSINESS ROOM

09:00-10.45
DOMAIN OVERVIEWS
Rocket Propulsion
Didier ZANELLI (Roxel)
Warheads
William HUNTINGTON-THRESHER (QinetiQ) & Déborah BARICOS (Nexter)
Air Breathing Propulsion
Frédéric VERDEAUX (SAFRAN Microturbo)

TECHNICAL ROOM 1

09:00-10.45
SYSTEMS AND NAVIGATION
Graham WALLIS (MBDA)
3D Target Recognition
Stéphane PELLEGRINO (Sagem) & Nabil AOUF (University of Cranfield)
Video Compression
Nicolas Eberlé (MBDA) & Lyndon Hill (University of Bristol)
Robust Adaptive Control: a direct approach for Missile Autopilot Design
Dr. Stephen HODGSON (MBDA) & Dr. Emmanuel PREMPAIN (University of Leicester)
Rapid Mission Planning and Rehearsal (RMPR)
Stéphane LE MENEZ (MBDA)
Rapid Static Target Modelling (RSTM)
Michael GAY (MBDA)

TECHNICAL ROOM 2

09:00-10.45
RADIO FREQUENCY (RF) SEEKERS
Dr. Thomas MERLET & Pierre-Thomas ALQUIER (Thales Optronique SA)
Extreme GaN
Dr. Benoit LAMBERT (UMS), (University of Bristol) & (IMS)
PYRANA/COBRA: Electronically Steerable Solutions of Conformal Antennas Arrays for RF Seekers
Dr. Yves QUERE (UBO), Daniel FRANCE (3TRPD) & David TAPLEY (3D Alchemy)
DESPOT
Disruptive Enhanced RF Shielding provided by Optical Transmission
Dr. Jonathan MCKENDRY (University of Strathclyde), & Dr. Stefan VIDEV (University of Edinburgh), (ESIGELEC/IRSEEM)

10:45-11:15 Break and Refreshments

11:15-12:15
MCM ITP – HOW TO GET INVOLVED & MAXIMISE YOUR SUCCESS
Marc TOULZA & Karim KOUDIL (MBDA)
12:15-13:00
UK & FR PhD SCHEME
Hisham ABOU-KANDIL (DGA) & Stuart BREWER (DSTL)

11:15-13:00
ELECTRO-OPTIC (EO) SENSORS
Bob SHEARS (Selex ES)
Micro-Cameras for Seeker Application
Jean-Claude LE MAREC (MBDA)
Colloidal Processing of Nanopowders for Infrared Domes and Windows
Christophe COUREAU (Coorstek) & Damien BREGIROUX (UPMC)
Designation of Difficult Low Signature Targets
Mark BRAY (Selex ES)

11:15-13:00
ROCKET PROPULSION
Didier ZANELLI (Roxel)
Energy Management – A More Compact Rocket Motor using a ‘Snail’ Charge Concept
Chris WILLIAMS (Roxel)
Micro Initiation – Use of Nano Thermite for Rocket Motor Igniters
André PFIFFER (Roxel)

13:00-13:45 Lunch

13:45-14:30
THE ART OF INNOVATION – LESSONS LEARNT FROM THE MCM ITP PROGRAMME
Mark OWEN (MBDA)
14:30-15:30
MCM ITP CASE STUDIES
Jean-Michel LEFEVRE (ProbaYes), Prof. Jon BINNER & Prof Moataz ATTALLAH (University of Birmingham)

13:45-15:30
WARHEADS
William HUNTINGTON-THRESHER (QinetiQ) & Déborah BARICOS (Nexter Munitions)
Theoretical Study of Explosive Candidates for Shaped Charges with Maximised Blast Effects
Yann QUIRION (Nexter Munitions)
High Speed Thermography Measurements on Intermetallics
Chris BRAITHWAITE (Cambridge University)
Design and Testing of Tuneable Effects Warheads
Mark REYNOLDS (QinetiQ)

13:45-15:30
ELECTRONICS
François CONSEIL (MBDA)
THIN: New Thermal Interface
Nicolas CHEVAL (Jacquetlot PE), Christopher BAILEY & Nadezhda Strusevich (University of Greenwich)
CHIP in GaN: C Band High Power Amplifier in GaN Technology
Thibaut HUET (UMS)

15:30-15:45 Break and Refreshments

OXFORD ROOM

15:45-16:15 Awards and Closing Session
Mireille CARLIER (DGA), Jim GRAY (DSTL) & Olivier LUCAS (MBDA)