

CENTRE FOR EARTH OBSERVATION INSTRUMENTATION

EMERGING TECHNOLOGIES WORKSHOP

3RD- 4TH MAY 2017

COSENER'S HOUSE, 15-16 ABBEY CL, ABINGDON OX14 3JD

DAY 1: 3RD MAY 2017

SESSION 1: WELCOME AND INTRODUCTIONS

9:30	COFFEE & REGISTRATION		
10:20	INTRODUCTION	MICK JOHNSON & CHRIS BROWNSWORD	CEOI
10:40	PATHWAYS FOR BROADER EXPLOITATION OF EO TECHNOLOGIES	ROBIN HIGGONS	QI3

SESSION 2: CEOI TECHNOLOGY IN MISSIONS

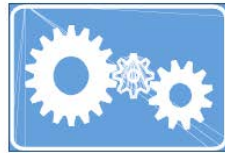
11:00	GNSS REFLECTOMETRY FOR GLOBAL OCEAN WIND MONITORING & SERVICES: THE UK TECHDEMO SAT-1 SUCCESS STORY	CHRISTINE GOMMENGINGER (SPKR) & 3 OTHERS	NATIONAL OCEANOGRAPHY CENTRE
11:20	TEA & COFFEE BREAK		
11:40	SEASTAR: A NEW SATELLITE MISSION CONCEPT TO OBSERVE SUB-MESOSCALE OCEAN SURFACE CURRENTS & ATMOSPHERE/OCEAN COUPLING	CHRISTINE GOMMENGINGER (SPKR) & 4 OTHERS	NATIONAL OCEANOGRAPHY CENTRE
12:00	LO COST EARTH IMAGER FOR EO	RYAN KRALIZ	SSTL
12:20	TRUTHS - TECHNOLOGY DEMONSTRATION	LYDIA ZAJICZEK	NPL
12:40	LUNCH		

SESSION 3: MINIATURE SYSTEMS

13:30	LASER SOURCE DEVELOPMENT AT FRAUNHOFER CAP FOR LIDAR, REMOTE SPECTROSCOPY AND SPACE-BASED QUANTUM TECHNOLOGIES	LOYD MCKNIGHT	FRAUNHOFER INSTITUTE UK
13:50	DEVELOPMENT OF A SOLO SPECTROSCOPY GAS SENSOR IN THE MID-IR	STEPHEN SWEENEY	ZINIR
14:10	MINIATURIZED HIGH PERFORMANCE SPECTROMETERS FOR MICROSAT ATMOSPHERIC MISSION	DAMIEN WIEDMANN	STFC RAL SPACE
14:30	CUBESAT CAPABILITY – ENABLING EO MISSION COST REDUCTION	ALASDAIR GOW	CLYDE SPACE LIMITED
14:50	SINGLE-PIXEL CAMERA FOR REMOTE SENSING	WOJCIECH ROGA	STRATHCLYDE UNIVERSITY
15:10	COFFEE & TEA BREAK		

SESSION 4: CEOI & UKSA PLANS FOR THE NEXT 3-5 YEARS

15:30	UKSA PLANS FOR EO	BETH GREENAWAY	UKSA
15:50	CEOI STRATEGY TOWARDS 2020 & BEYOND	MICK JOHNSON	CEOI
16:10	Q/A SESSION ON CEOI PLAN	ROB SCOTT (MOD)	CEOI
17:30	CLOSE OF DAY 1		
19:30	DINNER AT COSENER'S HOUSE		



DAY 2 4TH MAY 2017

09:00	WELCOME	ROB SCOTT	STFC RAL SPACE
09:05	EO TECHNOLOGY NEEDS AT ESA	MASSIMILIANO PASTENA	EUROPEAN SPACE AGENCY

SESSION 5: INNOVATIVE MICROWAVE & RADAR DEVELOPMENTS

9:30	NOVASAR	MARTIN COHEN	AIRBUS DEFENCE & SPACE
9:50	INNOVATIVE SAR TECHNOLOGY	DAVID HALL	AIRBUS DEFENCE & SPACE
10:10	94GHZ POLARISATION DIVERSITY DOPPLER RADAR TO OBSERVE GLOBAL IN-CLOUD WINDS	ILLINGWORTH/ BATTAGLIA	UNIVERSITY OF READING & UNIVERSITY OF LEICESTER RESP.
10:30	INSTRUMENTATION FOR 1-5 THZ HETERODYNE SOUNDERS	BRIAN ELLISON	STFC RAL SPACE
10:50	FILTERBANK SPECTROMETERS FOR HYPERSPECTRAL MICROWAVE ATMOSPHERIC SOUNDING (HYMAS)	PETER HARGRAVE	UNIVERSITY OF CARDIFF
11:10	TEA & COFFEE BREAK		
11:30	MICROWAVE RADIOMETRY FOR ACCURATE COASTAL ALTIMETRY	JANET CHARLTON	JCR SYSTEMS

SESSION 6: DETECTORS

11:50	QUANTUM CASCADE LASERS FOR HETERODYNE TECHNIQUES	ALEX VALAVANIS	UNIVERSITY OF LEEDS
12:10	DETECTORS FOR MM WAVE & THZ	PETER HUGGARD	STFC RAL SPACE
12:30	LATEST DEVELOPMENTS AT LEONARDO IN IR DETECTION FOR EARTH OBSERVATION	PETER KNOWLES	LEONARDO
12:50	TECHNOLOGY DEVELOPMENTS IN EARTH OBSERVATION IMAGING	JOE GANNICLIFFE	TELEDYNE E2V
13:10	LUNCH		
14:00	LOW AND HIGH VOLTAGE ASICS FOR SPACE IMAGING	NICK WALTHAM	STFC RAL SPACE

SESSION 7: NEW TECHNIQUES AND FUTURE TRENDS

14:20	PLANS FOR AIT & CALS AT RAL'S R100	CHRIS MUTLOW	STFC RAL SPACE
14:40	OPTICAL METAMATERIALS & NOVEL TECHNIQUES	ROBERT LAMB	LEONARDO
15:00	SIMULATION STUDY FOR KU-BAND MICROWAVE RADIOMETRY OF THE POLAR ATMOSPHERE	DAVID NEWNHAM	BRITISH ANTARCTIC SURVEY
15:20	INNOVATIVE MATERIALS FOR EO MISSIONS & BEYOND	ALEX BRINKMEYER	OXFORD SPACE SYSTEMS
15:40	COLD ATOM TECHNIQUES IN GRAVITY MAPPING	TRISTAN VALENZUELA	STFC RAL SPACE
16:00	TEA/COFFEE AND POSTERS		
16:20	PLENARY QUESTIONS WITH THE SPEAKERS		
17:00	CLOSE OF WORKSHOP		

