SESSION PROGRAMME AND CONTENTS

PROPAGATION AND MODELLING 1 **(Bengt Lundborg) Tuesday 08.30 – 09.45**		**Paper**
Peter Green, Loizis Christofi, Geoffrey Gott and Lefteris Economou	HF Channel Measurements	1.1
Vivianne Jodalen and Bodil H Farsund	Time Variability of a High Latitude NVIS Channel	1.2
Bjørn Jacobsen, Vivianne Jodalen, Paul S Cannon, Matthew J Angling and Oliver Smith	HF Radio Propagation at High Latitudes: Observations and Predictions for Quiet and Disturbed Conditions	1.3

PROPAGATION AND MODELLING 2 **(To be decided) Tuesday 10.15 – 11.30**		**Paper**
Donat V Blagoveschensky, M A Sergeeva and P A Sinyansky	Substorm Effects on High-Latitude HF Paths of the Oblique Ionospheric Sounding	1.4
Mats Bröms, Bjørn Jacobsen and Vivianne Jodalen	Characteristics on Two Close Channels at High Latitude	1.5
Donat V Blagoveschensky and S V Nozdrachev	A Small HF Radar "BIZON": Some Results of Observations	1.6

EQUIPMENT, USER REQUIREMENTS AND EXPERIENCES **(Walter Reck) Tuesday 13.00 – 15.00**		**Paper**
Rod Macduff	HF-90H A Commercial-of-the-shelf HF Hopping Combat Net Radio	2.1
Karl-Arne Markström	Design and Implementation Aspects of Remote Control in HF Radio Networks	2.2
Frederick H Raab	Class-E HF Power Amplifier with Electronic Tuning and Modulation	2.3
Oddbjørn Strømsnes	Some General Deliberations and Lessons Learned on Standards Conformance and Interoperability	2.4

CODING AND MODULATION **(Olov Carlsson) Wednesday 08.00 – 09.45**		**Paper**
Andreas Ahrens and Christoph Lange	On the Probability of Undetected Error in Protocol Structures	3.1
Achim Brakemeier and André Kotlowski	Packet Dependant Waveform Construction for the HF Channel	3.2
Tim Giles	HF Modem Design for Extremely High Simultaneous Doppler and Delay Spreads	3.3
John W Nieto	Does Modem Performance Really Matter on HF Channels? An Investigation of Serial-Tone and Parallel-Tone Waveforms	3.4

BROADCASTING		**Paper**
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Andy Giefer	Digital Radio Mondiale – The Importance of Field Trials for System Design and Operation	4.1
Isabelle Siaud	On COFDM Performances of Digital Radio Systems in AM and HF Bands Over Multipath Ionosperic Channels	4.2
Christoph Lange and Andreas Ahrens	Intersymbol Interference and Interchannel Interference in Multicarrier Transmission Systems	4.3

STANDARDS DEVELOPMENT 1		**Paper**
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Mel Maundrell	Development of HF Standards and Their Role in NATO	5.1
Daniel P Roesler and R G McFarland	STANAG-5066 Implementation and Application Perspectives	5.2
Laurent Soyer	HF Messenger: European Trials and R&D Efforts	5.3

SIGNAL ANALYSIS		**Paper**
(Vivianne Jodalen) Thursday 08.00 – 09.45		
Roald Otnes	Factors Affecting the Availability of Medium Data Rate Waveforms at High Latitude HF Channels	6.1
Nigel C Davies, Tricia J Willink and Paul S Cannon	Initial Results from WHISPER; a Wideband HF Ionospheric Sounder for Propagation Environment Research	6.2
Roger Karlsson and Walter Puccio	Three-Channel Digital Radio Receiver for Simultaneous Reception in Three Orthogonal Dimensions	6.3
William N Furman and John W Nieto	Understanding HF Channel Simulator Requirements in Order to Reduce HF modem Performance Measurement Variability	6.4

STANDARDS DEVELOPMENT 2		**Paper**
(Mel Maundrell) Thursday 10.15 – 11.30		
Michael A Wadsworth and Eric A Peach	Initial Performance Results from an Implementation of the STANAG 4538 Fast Link Setup Protocol	5.4
William L Beamish and William N Furman	Performance of HMTP Based Email Using Second and Third Generation HF Data Links	5.5
Paul L Cotterill , K Davies, George Robertson and Celeste Ponsioen	Field Trials to Investigate Automated HF Communications Capabilities Provided by STANAG 4538 (ARCS)	5.6

EMERGING APPLICATIONS		**Paper**
(Karl-Arne Markström) Thursday 13.00 – 15.00		
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James Kilgallen	Wideband Search and Collection Techniques Reveal Elusive HF Communications	7.2
Håkan Bergzén	Integrating Automated HF Systems in IP Based Networks	7.3
William E Glase and George R Robertson	Advances in IP Data Transfer over HF Channels	7.4