ELECTRONICS DIVISION
Colloquium on

"THE FUTURE OF Ka BAND FOR SATELLITE COMMUNICATIONS"

Organised by
Professional Group E9
(Satellite communication)

On Monday, 15 November 1993
Digest No: 1993/215
THE FUTURE OF Ka BAND FOR SATELLITE COMMUNICATIONS

Colloquium organised by E9 (Satellite communication) held at Savoy Place on

Monday, 15 November 1993

PROGRAMME

9.30 am Registration and coffee
Chairman: R Ward (DRA Defford)

Session one: The problems

10.00 Chairman's introduction

1 10.05 "Ka band mobile-satellite service propagation environment": S M R Jones, R E Sheriff and P A Watson (University of Bradford)

2 10.25 "System design constraints for a Ka band satellite personal communications system": J Wakeling (BT Laboratories)

3 10.45 "Propagation effects at Ka band: review of the Olympus experience": J Belshaw (ESA-ESTEC)

4 11.05 "The effect of phase noise on noncoherent modulation schemes for hand-held satellite terminals": S Hussain and Professor S K Barton (University of Bradford)

11.25 DISCUSSION

Session two The solutions

5 11.35 "The application of wide area diversity techniques to Ka band VSATs": Professor C T Spracklen (University of Aberdeen), K Hodson and R Heron (Delta Communications)

6 11.55 "Fade countermeasure intelligent system (FCMIS)": T K P Chung and A P Gallios (Coventry University)

12.15 DISCUSSION

12.25 LUNCH (Available at the IEE)
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<th>Session three</th>
<th>The applications</th>
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<td>&quot;The advanced communications technology satellite (ACTS) technologies and experiments&quot;: F Gargione (Martin Marietta Astro-Space, USA)</td>
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<td>&quot;A multi service mobile satellite communications system operating at Ka band&quot;: G Busuttil-Reynaud and L J Elliott (Matra Marconi Space)</td>
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<td>&quot;The Olympus experience: overview and results of application activities&quot;: J Hörle (ESA)</td>
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<td>&quot;Aeronautical applications of KA band&quot;: P Britten and J Holmes (Racal Research)</td>
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<td>&quot;CODE - a Ka band VSAT network&quot;: P Glover (ESA - ESTEC)</td>
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<td>DISCUSSION</td>
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