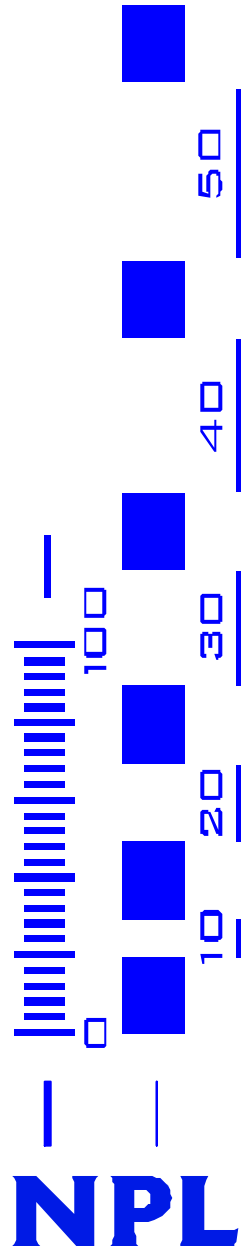


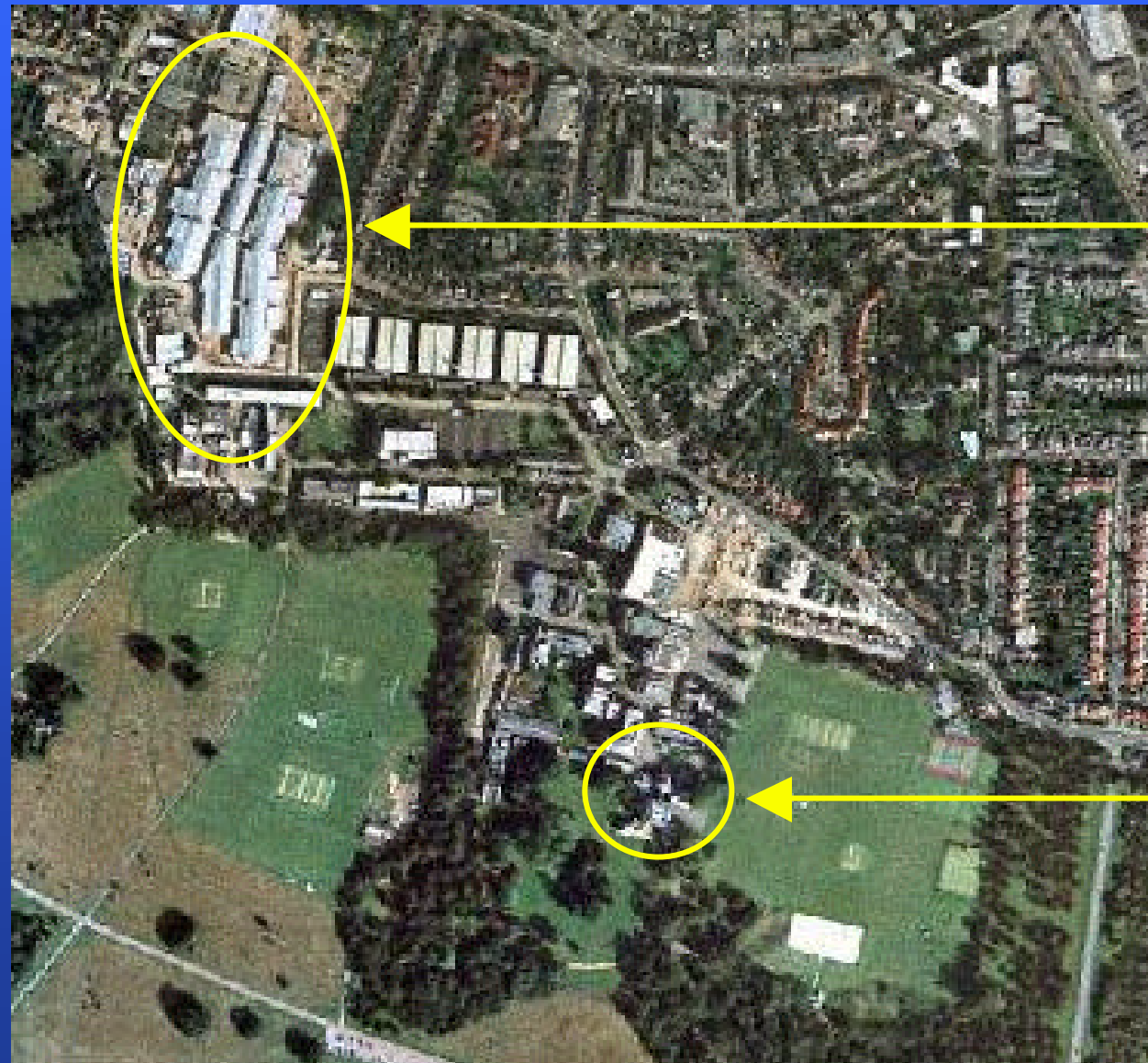
Measurements for Materials Systems (2001-2004)

*MMS Industrial Advisory
Group Meeting*

20 November 2003



Welcome to NPL



New NPL

Bushy House

NPL

New NPL



NPL



NPL

AGENDA

0.00 Coffee

0.30 Welcome and introduction

0.40 Matters arising from the previous meeting

0.50 Qualification of Materials and Use of Design Data in Aerospace Structures

Rob Ferguson (Airbus, UK)

1.20 Predicting Deformation and Failure in Adhesive and Bolted Joints

Greg Dean/Bill Broughton (NPL)

2.00 Design and Failure of Materials Systems Under Multi-Axial Loads (MMS5)

John Cook (Qinetiq)

2.10 Adhesive Toolkit – Ewen Kellar (TWI)

2.40 Lunch (Adhesive Toolkit Demonstration – Ewen Kellar (TWI))

AGENDA

- 3.40 Current Trends in Surface Treatment Development in Adhesive Bonding
John Bishopp (Star Adhesion Ltd)
- 4.10 Adhesion Strength – *Bruce Duncan (NPL)*
- 4.50 New Programme Formulation – *Bruce Duncan (NPL)*
- 5.00 Discussion/AOB
- 5.30 Closure of Meeting

Other Related MMS Projects

Damage in Multi-Layer Systems (MMS3)

Neil McCartney (NPL)

Validation of Design for Layered Systems (MMS4)

David Mendels (NPL)

Design and Failure of Material Systems Under Multi-Axial Loads (MMS5A + 5B)

Geoff Eckold (AEA Technology)/John Cook (Qinetiq)

Towards an Adhesive Design Toolkit (MMS7)

Ewen Kellar (TWI) - Website: www.adhesivestoolkit.com

Interfacial Adhesion Strength (MMS8)

Bruce Duncan (NPL)

Efficiency Improvements in Rapid Bonding Systems (MMS9)

Bruce Duncan (NPL)

Cure Monitoring for Shorter Cycle Times (MMS10)

David Mulligan (NPL)

Assessment and Criticality of Defects and Damage in Material Systems (MMS13)

Mike Gower (NPL)