

# Electromagnetic Materials Measurements and Applications (EMMA) Community of Interest (Col) Meeting

**Date:** Tuesday 15 April 2025  
**Location:** Workroom 04 (First Floor), 38 Mappin Street, Sheffield City Centre, Sheffield S1 4DT

## Agenda

10:00	<b>Registration, coffee and posters</b> (Coffee from 09:30 for early arrivals)
10:30	<b>Introductions:</b> <b>Welcome</b> <a href="#">Stephen Henthorn, University of Sheffield &amp; Bob Clarke, NPL</a> <b>The UKMMN Wireless and Microwave SIG</b> <a href="#">Stephen Henthorn, University of Sheffield</a> <b>The DSTL Advanced Materials Programme</b> <a href="#">Karl Lymer, Dstl</a> <b>Electromagnetic Materials Measurements at NPL</b> <a href="#">Bob Clarke, NPL</a>
10:50	<b>An Experimental System for the Measurement of Electromagnetic Propagation on Curved Surfaces</b> <a href="#">Alan Tennant, University of Sheffield</a>
11:05	<b>A testbed for measuring scatter from nonlinear materials</b> <a href="#">Stephen Henthorn, University of Sheffield</a>
11:20	<b>Methods of Fitting Q-factor for Measurement of Dielectric Loss</b> <a href="#">Andrew Gregory, NPL</a>

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11:25	<b>A four-port calibration procedure for characterisation of cross-polar scattering on network analysers</b> <a href="#">Christopher King, QinetiQ</a>
11:45	<b>Non-unique impedance distributions for desired wave transformations</b> <a href="#">Jonathan Smith, University of Exeter</a>
12:05	<b>Localisation and Sensing Using Metamaterials</b> <a href="#">Chris Stevens, University of Oxford</a>
12:25	<b>Lunch and posters</b>
13:25	<b>Investigating the Viability of using Resonant Cavity Perturbation Theory on the Study of Archaeological Ceramics</b> <a href="#">Isabella Langdon and Martin Robinson, University of York</a>
13:45	<b>Development of NPL non-contacting dielectric resonator system for mapping electrical properties</b> <a href="#">Ling Hao, NPL</a>
14:00	<b>THz materials measurement for devices</b> <a href="#">Jessica Boland, University of Manchester</a>
14:20	<b>Terahertz dielectric measurements for materials at NPL</b> <a href="#">Mira Naftaly, NPL</a>
14:35	<b>Midlands mm-Wave and THz Measurement Facility – a Versatile Electromagnetic Characterisation Suite</b> <a href="#">Alex Bystrov, University of Birmingham</a>

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14:55	<b>A Low Dielectric Filling Factor Millimetre-Wave Electromagnetic Bandgap Resonator</b> <a href="#">Stephen Hanham, Imperial College</a>
15:15	<b>Brief Review of Ways Forward for the Col</b> <a href="#">Bob Clarke, NPL</a>
15:20	<b>Tea, coffee and posters</b>
15:40	<b>Lab tours</b>
17:00	<b>End</b>