

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

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

## Agenda

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

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

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