



The Electromagnetics Centre Seminar

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In Co-operation with IEEE UKRI (MTT/ED/AP/LEO)
Societies Joint Chapter
& IEEE University of Manchester Student Branch

'Determination of Complex Permittivity on Compressed Bulk Wheat Grain'

By: Hong Siang Chua
The E.M. Centre, The University of Manchester

- **Date: Tuesday 9 Nov 2005**
- **Venue: room C53 Sackville Street Building**
- **Time: 2.00 pm**
- **All welcome to attend**

Abstract:

A method of determining the complex permittivity of compressed bulk wheat grains with different moisture content (5% to 18%) and forces (100kN to 180kN) is described. Tisher's equation is used to determine waveguide propagation constant. Complex permittivity is then obtained and shows a proportional relation to moisture content and forces.