

Microscopical Society of Ireland

COMMUNICATIONS

**22nd ANNUAL SYMPOSIUM
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National University of Ireland, Galway.

RESEARCH COMMUNICATIONS

ORAL PRESENTATIONS

Structural and Electrical Characterisation of Pulsed Laser Deposited Thin Films of NdNiO₃

G. Catalan*, M. Gregg and R. Bowman.

Department of Pure and Applied Physics, Queen's University of Belfast.

Development of the Reproductive System in the Liver Fluke, *Fasciola hepatica*.

L. M. Colhoun*, I. Fairweather and G.P. Brennan.

School of Biology and Biochemistry, The Queen's University of Belfast.

Scanning White-Light Interferometry for High-Resolution Microscopic Measurements in 3 Dimensions

Mr. John Connolly* and Mr. Tony Flaherty.

National Centre for Laser Applications, Physics Dept., NUI, Galway.

Heterogeneous Catalysis and Dispersion Studies of Supported Metal Zeolite Catalysts

Brendan Coughlan and Noel McEvoy*.

Physical Chemistry Laboratories, Chemistry Department, National University of Ireland, Galway.

A Study of Cell Morphogenesis in the *Arabidopsis* Root Epidermis.

Eoin Ryan* and Martin Steer.

Botany Department, University College Dublin.

The Influence of Substrate Preparation on the Structure and Morphology of Calcium Phosphate Thin Films

N.S. Leyland, B.J. Meenan, A. Boyd, M. Akay and R.J. Turner

Northern Ireland Bio-Engineering Centre, School of Electrical and Mechanical Engineering, University of Ulster at Jordanstown, Shore Rd, Newtownabbey, Co. Antrim, N.J.

**The Application of Confocal Microscopy
to Physical Gene Mapping**

T.M. Dineen*, R. Powell, J.A. Houghton.
Cytogenetics Unit, Dept. Microbiology, National University of Ireland, Galway.

**Raman Microscopy and the Analysis
of Microscopic Fluid Inclusions.**

Dr. Alan Ryder*, Dr. Martin Feely, Roisin Moran, Dr. Ger O'Connor, Prof. Tom Glynn.

Department of Physics, National University of Ireland, Galway.

**Conformation of perovskite structure in $\text{PbMg}_{1/3}\text{Nb}_{2/3}\text{O}_3$
thin films by Transmission Electron Microscopy**

M.H. Corbett*, G Catalan, R.M. Bowman and J. M. Gregg.
Queen's University Belfast, N. Ireland.

Quantitative Electron Stereo-Microscopy

J. Barry¹*, G. Byrne¹, B. Cregg², D.C. Cottell²

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**Localisation of a Peptide Responsive Protein
in the Liver Fluke *Fasciola Hepatica***

SM. Tormey, A. Trudgett and I. Fairweather.

The Queen's University of Belfast, N. Ireland

**Grain Size Effects in $\text{Ba-Sr}_{1-x}\text{TiO}_3$ Thin Films
by Atomic Force Microscopy**

D. O'Neill*, J.M. Gregg and R.M. Bowman

Queens University of Belfast, N.Ireland

**Rheology and Microstructure of
Imitation Cheese Containing Starch**

J.S. Mounsey, E.D. O'Riordan, B. Cregg & D.C. Cottell

Department of Food Science, University College, Dublin, Ireland

Nucleolar Proteins in Bovine Oocytes

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Ontogeny of the Nervous System in the Cysticercus Larva of

Taenia Crassiceps.

M. K. Graham, I. Fairweather* and G. P. Brennan.

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Observation of Nanoparticles of Amphiphilic Cyclodextrin Derivatives

Pascale Schwintd, Raphael Darcy and David C. Cottell¹

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RESEARCH COMMUNICATIONS POSTER PRESENTATIONS

Detection of Phosphorus Accumulating Organisms in Nutrient Removal Systems.

Donal Mulkerrins* and Emer Colleran.

Environmental Research Unit, Microbiology Dept., National University of Ireland, Galway.

The Use of Hexamethyldisilazane in SEM Preparation of Human Mitral Valve Tissue

J. Conneely, A. Black and J. Folan-Curran.

Department of Anatomy, National University of Ireland, Galway.

Rat Mitral Valve Connective Tissue Following Selective Denervation: A Cell Maceration SEM Study

A. Black, J. Conneely and J. Folan-Curran

Department of Anatomy, National University of Ireland, Galway

**A Polarised Light Microscopic Study and Classification of
Guinea Pig Chordae Tendineae.**

McHugh. C., Folan-Curran, J.

Department of Anatomy, National University of Ireland, Galway.

**Analysis of Extracellular Matrix Components
of Rat Atrioventricular Valves**

B. Wilkins, A. Mulvihill and J. Folan-Curran. Department of Anatomy, National
University of Ireland, Galway

**Haloperidol Regulation of Brain-Derived Neurotrophic Factor
in the Extended Amygdala and Hippocampus of the Rat.**

N.M. Dawson^{1*} G.E. Meredith²

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National University of Ireland, Dublin;

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**Energy Dispersive X-Ray Analysis of 18th and 19th Century
Irish Silver**

William M. Carroll and Francis R. Comerford.

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University of Ireland, Galway.

**A Study of Factors Associated with Current Season Needle
Necrosis on Noble Fir Christmas Trees in Ireland**

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**Formation of Nanospherical Aggregates from Water Soluble
Amphiphilic Cyclodextrin Derivatives**

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4, Ireland.

**Surface Characterisation of DLC Films Deposited on Stainless Steel
Medical Devices**

H-M. Wekianos Hailu, J. F. Zhao, P. D. Maguire and J. McLaughlin.

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