

Graham A. Ormondroyd

Personal Information

- Marital status: Married
- Nationality: British
- Age: 29
- Place of Birth: Bradford, United Kingdom.

Education

Jan 2003 – Sept 2007 University of Wales, Bangor Bangor

PhD: A novel environmentally friendly sustainable timber preservative.

- Research into wood cell porosity, wood permeability, the size of micro voids in the cell wall, chemical modification of wood, biodeterioration of treated wood, dimensional stability, leeching properties of treated wood and wood chemistry.
- Knowledge of the following instrumentation was gained in my PhD; Helium pycnometer, scanning electron microscope (including EDAX), FTIR, HPLC, flame spectrometry, differential refractometer.
- I gained the knowledge of working within a group that included both academic and industrial partners.
- I have coordinated joint research between two research institutions (Building Research Establishment and the University of Wales Bangor).
- I gained experience of supervising both BSc and MSc dissertations.

Oct 2001 – Dec 2002 Buckinghamshire and Chilterns University College.

High Wycombe

MSc Forest Products Technology.

- Distinction Awarded
- A thesis was completed entitled "The use of waste wood in the particleboard industry".
- Modules were completed in wood deterioration, sawmilling, construction, wood anatomy, wood science, timber identification, engineered wood products, timber business marketing & trade, timber drying & preservation and environmental management systems.

Oct 1997 – July 2001 University of Wales, Bangor Bangor

BSc (Hons) Forestry and Forest Products

- 2ii Awarded.
- A dissertation was completed entitled "A benchmark study of resins used in medium density fibreboard manufacture".

Professional experience

January 2008 – Present

The BioComposites Centre

Head of Materials Research

- Project management, for both publicly funded and industrially funded projects.
- Time and people management.
- Negotiation of contracts between the company and project sponsors (both industrial and commercial).
- Managed Health and Safety aspects of the research group's activities.
- Worked on both fundamental and industrial related projects.
- Pastoral care of an eight-person research group.
- Seat on the management board of the BioComposites Centre.

January 2006 – January 2008

The BioComposites Centre

Research Scientist

- Managed industrially funded projects.
- Gained experience of project planning and quoting for both large scale projects and small scale industrial testing
- Gained experience of bid writing
- Involved with the development of novel materials.

April 2003 – December 2005

The Wheat sheaf Inn

Bar Staff

- Worked in a public service environment.
- Was given the responsibility of handling both cash and stock.
- Was key holder and had the responsibility of locking up.

July 1999 – July 2000 Forest Research, New Zealand

Rotorua

Research Assistant – MDF technologies.

- Gained knowledge of project planning and time management.
- Worked on both fundamental and industrial related projects.
- Work both as part of a team and on my own.

June 1998 – Oct1998 Kronospan

Chirk

Logyard Operative

- Work as part of the logyard team.
- Gained experience of shift working.
- Learnt how to operate the chipper and debarked on the yard.

Publications

Fru, C., M. A. Irle, et al. (2003). A protocol for the sampling of recycled wood and the resulting chipboard for contaminant analysis. European Panel Products Symposium, Llandudno, Biocomposites Centre.

Hill C.A.S, Jones D, Militz, H, Ormondroyd G.A. (Eds) (2007) Proceedings of the 3rd Conference on Wood Modification, Cardiff. Biocomposites Centre.

Hill C.A.S, Kwon, J.H, Hale M.D, Ormondroyd G.A, Suttie E.D. Howard N. (2007) "The decay resistance of Anhydride Modified Wood" 3rd European Conference on Wood Modification, Cardiff, BioComposites Centre.

Hill C.A.S, Kwon, J.H, Ormondroyd G.A. (2007) "Changes in Cell Wall Volume due to Reaction of Wood with Acetic Anhydride" 3rd European Conference on Wood Modification, Cardiff, BioComposites Centre.

Hill C.A.S., Hale M.D., Ormondroyd G.A., *et al.* "Decay resistance of anhydride-modified Corsican pine sapwood exposed to the brown rot fungus *Coniophora puteana*" *Holzforshung* 60 (6): 625-629 2006

Hill, C. A. S. and G. A. Ormondroyd (2004). "Dimensional changes in Corsican pine (*Pinus nigra maritima*) modified with acetic anhydride measured using a helium pycnomter." *Holzforshung* 58(5): 544-547.

Hill, C. A. S., G. A. Ormondroyd, *et al.* (2005). The Decay Resistance of Anhydride Modified Wood: A Study of the Mechanisms. 2nd European Conference on Wood Modification.

Hill, C. A. S., S. C. Forster, et al. (2004). "An Investigation of Cell Wall Micropore Blocking as a possible Mechanism for the Decay Resistance of Anhydride Modified Wood." *International Biodeterioration and Biodegradation* 55(1): 69-76.

Irle, M. A. and G. A. Ormondroyd (2002). A sampling protocol for the determination of contaminant levels in wood raw materials and finished board products. European Panel Products Symposium, Llandudno, Biocompositities Centre.

Irle, M. A., C. Fru, et al. (2003). The measurment of contaminants in recycled wood and products made from recycled wood. European Panel Products Symposium, Llandudno, Biocomposites Centre.

Kwon J.H, Hill CAS, Ormondroyd GA, Karim S (2007) "Changes in the cell wall volume of a number of wood species due to reaction with acetic anhydride" *Holzforshung* 61 (2): 138-142.

Ormondroyd, G. A. and W. G. Grigsby (2002). "A simple method for quantifying the PF resin content of composite wood panels." *Holz als Roh- und Werkstoff* 60(4): 313-315.

Rafidah, S., C. A. S. Hill, et al. (2006). "A study of the Dimensional Stabilisation of Rubberwood by Reaction with Acetic and Hexanoic Anhydride." *Journal of Tropical Forestry* 18(4): 261-268.

Additional professional activities

- 1998 – 1999 Treasurer of the University of Wales, Bangor Concert Band. Also organised a tour of Belgium for the Band.
- 2000 – 2001 Chair of the University of Wales, Bangor Concert Band.
- 2001 – 2002 Student representative to the senate of BCUC.
- Sept 2004 Attended the UK Grad summer school which is aimed at improving the transferable skills of PhD students.
- 2005 – 2006 Chair of the Research Student Forum (RSF) of the University of Wales Bangor. The RSF was reformed in 2005 and I was involved in the start up and writing the constitution of the forum.
- I have worked on marketing projects for local businesses including Elwy Valley Welsh Lamb. This included the design of a website, brochures for both the public and commercial customers and exhibition stands to a professional standard.
- I have been involved with the publicity for the School of Agriculture and Forest Sciences, this included attending shows and exhibitions as well as designing exhibition material.
- I have attended courses on the use of Adobe Photoshop (Basic and Advanced) and Macromedia Dreamweaver (Basic and Advanced). I also have a good working knowledge of Microsoft Office, Adobe Premiere Pro (video editing suite) and Adobe InDesign (desktop publishing).

Other Qualifications

- I have a full valid UK driving license
- I hold a current Premier First Aid at Work Certificate
- I hold The Institute of Leadership and Managements Level 3 award in First Line Management.
- I am a current PRINCE2 practitioner.

Professional memberships

Member of the Institute of Wood Science.
Associate member of TAPPI.
Member of the Institute of Leadership and Management.

References

Prof. C.A.S Hill,
Professor of Materials and
Engineering
Centre for Timber Engineering
Napier University
Merchiston Campus
Edinburgh EH10 5DT

Dr. Mark Irlé,
Deputy Director
Ecole Supérieure du Bois
Rue Christian Pauc,
BP 10605,
44306 Nantes
France