

Etat civil

- Mark IRLE
- Né en 21/12/1960

Situation à l'Académie

- Elu correspondant en 2021
- Section 2 : Forêts et filière bois

Rubriques à renseigner :

Titre : Directeur de recherche

Coordonnées :

- Ecole Supérieure du Bois
rue Christian PAUC
44000 NANTES
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Formations :

BSc Wood Science, University of Wales, 1982.

PhD "Physical Aspects of Wood Adhesive Bond Formation with Formaldehyde Based Adhesives", University of Wales, 1986.

HDR "Investigations of the Manufacture, Properties and Performance of Wood-Based Composites", Université Bordeaux I, 2006.

Carrière :

Directeur de recherche, ESB, Nantes (2002 à présent)

Directeur Forest Products Research Centre, Buckinghamshire Chilterns University College (1997-2002)

Domaines d'expertise :

Panneaux à base de bois, les colles et collage bois, dégagement de COVs, le recyclage du bois

Mots clés :

Panneau de particules, contré plaqué, OSB, MDF, colle, formaldéhyde

Distinctions :

- Fellow of the Institute of Materials, Minerals and Mining, U.K.
- Fellow of the International Academy of Wood Science (IAWS).
- Member of the Forest Products Society and Society of Wood Science and Technology.

Fonctions actuelles :

- Enseignant-chercheur

Activités professionnelles :

- Membre fondateur d'InnovaWood (Executive Director 2007-2013, vice-President 2013-2017, President 2017-2021, Executive Board member 2021-present)
- Membre du Comité Scientifique du FCBA

Activités éditoriales

- *International Wood Products Journal* (2009-present)
- *European Journal of Wood and Wood Products* (2017-present)
- *Maderas: Ciencia y tecnología* (2020-present)
- *Wood Material Science & Engineering* (2017-present)

Publications récentes

1. MUNIR, T.M., PAILHORIE, AVIAT, F., LEPELLETIER, D., LE PAPE, P., DUBREIL, L., IRLE, M., BUCHNER, J., EVEILLARD, M., FEDERIGHI, M. and BELLONCLE, C., (2021). Hygienic Perspectives of Wood in Healthcare Buildings. *Hygiene* 2021, 1, 12–23. <https://doi.org/10.3390/hygiene1010002>.
2. CHEN, J-C., MUNIR, T.M., AVIAT, F., LEPELLETIER, D., LEPAPE, P., DUBREIL, L., IRLE, M., FEDERIGHI, M., BELLONCLE, C., EVEILLARD, M. and PAILHORIE, H. (2020). Survival of bacterial strains on wood (*Quercus petraea*) compared to polycarbonate, aluminium and stainless steel. *Antibiotics* 2020, 2020, 9, 804; doi:10.3390/antibiotics9110804.
3. MICHAUD F., HOBALLAH M., MOREAU, J., IRLE M., VIGNON, P., DELISEE, C. and NDIAYE A. (2020). Design of a competitive wood based insulation product with innovization. *ProLigno* 16(1):3-10.
4. GURAU, L., IRLE, M.A., and BUCHNER, J. (2019). The Surface Roughness of Thermally Treated and Untreated Beech (*Fagus sylvatica* L.) after Sanding. *BioResources* 14(2):4512-4531.
5. IRLE, M. (2019). A review of methods to increase the flexibility of wood. *Bulletin of the Transilvania University of Braşov Series II: Forestry, Wood Industry, Agricultural Food Engineering* Vol. 12 (61) No. 2 – 2019 (<https://doi.org/10.31926/but.fwiafe.2019.12.61.2.4>.)
6. MUNIR, T.M., AVIAT, F., PAILHORIE, H., EVEILLARD, M., IRLE, M., BELLONCLE, C. and FEDERIGHI, M. (2019). Direct screening method to assess antimicrobial behavior of untreated wood. *European Journal of Wood and Wood Products* (2019) 77:319-322 (DOI: 10.1007/s00107-019-01390-2). (Available at <https://rdcu.be/bjyhl>).

7. IRLE, M., FRIEDRICH, T., LABISTE, M. and RICHARD, T. (2018). Formaldehyde in wood: where does it come from? *PRO LIGNO* 13(4):3-7.
8. IRLE, M., PRIVAT, F., COURET, L., BELLONCLE, C., DEROUBAIX, G., BONNIN, E. and CATHALA, B. (2018). Advanced recycling of post-consumer solid wood and MDF. *Wood Materials Science and Engineering* 14(1):19-23 (DOI: 10.1080/17480272.2018.1427144).
9. GURAU, L., and IRLE, M.A. (2017). A review of surface roughness evaluation methods for wood products. *Current Forestry Report* 3(2):119–131 (DOI 10.1007/s40725-017-0053-4 or <http://rdcu.be/qJJ1>).
10. COURET, L., IRLE, M.A., BELLONCLE, C., and CATHALA, B. (2017). Extraction of cellulose nanocrystals from post-consumer wood fiberboard waste. *Cellulose* 24(5):2125-2137 (doi:10.1007/s10570-017-1252-7 or <http://rdcu.be/qbuE>).

Short Bio:

Dr. Irle is the Research Director of Ecole Supérieure du Bois in Nantes, France.

His research interests cover all aspects of wood-based composites. He has published more than 70 papers in refereed journals and over 360 articles in magazines, conferences and books. He has successfully supervised the research of 25 PhD, 3 MPhil, 20 MSc and numerous undergraduate students.

A summary of his current activities includes: Executive Director of InnovaWood; co-ordinator and participant in several national and international research projects, and he is a Fellow of The Wood Technology Society of the Institute of Materials, Minerals and Mining (UK), Fellow of the International Association of Wood Science, and a member of the Académie d'agriculture de France.