

The International Journal of Sustainable Engineering

CALL FOR PAPERS

Special Issue on: Biopolymers for Sustainable Engineering

Polymers/plastics are highly visible because they are used in such a wide range of applications. This visibility, and the fact that they have traditionally been derived from oil, has made polymers a focus for a change in environmental practice. Biopolymers have been advocated as a more sustainable and environmentally responsible alternative to oil-derived polymers. The extraction of raw materials and their processing to produce polymeric materials for engineering applications consumes energy and generates waste and pollution. Improving the efficiency with which biopolymer materials are processed and used has enormous potential for reducing environmental impacts and for the promotion of sustainable engineering practice. We are inviting people from academia and industry to submit papers on their recent research on problems related to reducing the environmental impacts of biopolymers at any stage in the life-cycle, that is, from extraction through processing and manufacture to their use and end-of-life treatment.

The subjects of interest include, but are not restricted to:

- Biopolymer selection
- Biopolymer processing
- Biopolymer material substitution
- Biopolymer property enhancement
- Biopolymer composites and fibre reinforcement
- Dematerialisation
- Biopolymer material efficiency improvements
- Biopolymer for light-weighting
- Biopolymer material recovery, reuse and recycling
- Biopolymers in medical devices
- Biopolymers from waste: alternative feedstock
- Supply chain management
- Property, processing and modelling
- Renewable resources and natural materials
- Sustainable use of Biopolymer materials
- Biopolymers in nano-materials and nano-technology
- Implications of environmental legislation on biopolymer material selection and use
- Life-cycle studies

Papers should be prepared according to the instructions for authors that can be found at: <http://www.tandf.co.uk/journals/journal.asp?issn=1939-7038&linktype=44> and submitted using the 'online submissions' link.

Important Dates:

Paper submission deadline: 30 November 2010

Notification of first-stage review acceptance: 31 March 2011

Final submission (for revised papers) deadline: 30 June 2011

Publication: September 2011

Guest Editor:

Dr Noreen Thomas
Department of Materials
Loughborough University
Loughborough
LE11 3TU
UK

Email: N.L.Thomas@lboro.ac.uk

IJSE Associate Guest Editor:

James A Colwill
Wolfson School of Mech/Man Eng
Loughborough University
Loughborough
LE11 3TU
UK

IJSE@lboro.ac.uk