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Important dates

October 1st, 2016: Full paper
submission

March 1, 2017: Final decision
notification

Summer, 2017: Publication of
Special Issue

Special Issue on "Sustainable biofuel production from biomass feedstocks"

Sustainable bioenergy has tremendous potential to prevent carbon emissions from entering the atmosphere – simply by switching from fossil-based petroleum to bio-based fuels as our primary transportation fuel. The question is how to increase global production of bio-based fuels without creating distortionary incentives that might pose risks to food security and the environment, particularly in developing countries. In part, the answer may involve the selection of a wider array of biomass feedstocks, including those available from the forestry, agricultural and waste recycling sectors. Fuels will be derived from these biomass feedstocks with advanced (bio)chemical processing technologies that meet rigorous fuel test standards for compatibility with current and emerging engine designs. This Special Issue will provide a multi-disciplinary analysis of the sustainability, economics, social licence and policy issues that must be considered in selecting and transforming biomass feedstocks into biofuels, at local, national and international scales.

Topics of interest of this Special Issue include, but are not limited to the following aspects of biomass feedstocks for biofuel:

- Land selection and land capacity to produce low-cost sustainable biomass feedstocks in the forestry and agriculture sectors
- Waste recycling as a source of low-cost sustainable biomass feedstock
- Production and processing procedures that add value to the biomass feedstock
- Promising (bio)chemical conversion technologies for sustainable biofuel production
- Life cycle assessment and life cycle costing of biofuel production
- Supply chain models for sustainable biofuel production
- Overcoming barriers to commercializing conversion technologies for low-cost, sustainable biofuel
- Certification systems for sustainable biofuel production
- Engine designs and capacity for sustainable biofuel use
- Carbon accounting, trading markets and sustainable biofuel production
- Regional, domestic and international trade opportunities for sustainable biomass feedstocks and sustainable biofuels
- Policy instruments for the development of a sustainable biofuels industry
- Societal valuation of sustainable biofuels
- Positioning sustainable biofuels in emerging green economies

This Special Issue contributes to state-of-the-art knowledge in advanced biofuel research. Specific cases will illustrate the methods of selecting and evaluating various candidate biomass feedstocks, with attention to the policies that foster the environmental, economic and societal goals for sustainable biofuel production, in a broad set of countries/regions.

Submission Format and Guideline

All submitted papers must be clearly written in excellent English and contain only original work, which has not been published by or is currently under review for any other journal or conference. Both original research and critical review papers will be accepted, where a critical review is an in-depth analysis of the subject, not simply a literature review. Papers will be from 6000 to 8000 words, with a limit of 25 pages (one-column, at least 11pt fonts) including figures, tables, and references. A detailed submission guideline is available as "Guide to Authors" at: <http://www.journals.elsevier.com/applied-energy>. All manuscripts and any supplementary material should be submitted through Elsevier Editorial System (EES). The authors must select "SI: Biomass Feedstocks" when they reach the "Article Type" step in the submission process. The EES website is located at: <http://ees.elsevier.com/apen/default.asp>. All papers will be peer-reviewed by at least two independent reviewers. Requests for additional information should be addressed to the guest editor Joann Whalen, joann.whelen@mcgill.ca