

ANNOUNCEMENT & CALL FOR PAPERS



2018 International Conference on the Biomass-Environment-Food-Energy-Water (BEFEW) Nexus



**“Towards a sustainable bioeconomy:
Working in harmony with the environment-food-energy-water nexus”**

• 12 - 13 December 2018 • Bangi-Putrajaya Hotel, Selangor, Malaysia

Biomass is a strategic resource that can be used to produce energy, fuels and other high-value products. Since the production of biomass requires a large amount of land and water, competes with food production and can affect the ecosystem (e.g. deforestation, leaching of fertilisers and pesticides into water bodies), there is a delicate balance between all of these elements. Together, these are known as the environment-food-energy-water nexus, and all of the benefits associated with the use of biomass to meet our requirements for energy and other products must be considered along with the potential impact on the nexus as a whole. Therefore, it is important not only to understand how best to exploit the great potential of biomass but also to understand the detailed interactions among all of the elements in the nexus.

The 2018 BEFEW conference is organised by Universiti Putra Malaysia, Universiti Kebangsaan Malaysia, Universiti Teknologi Petronas, University of Nottingham Malaysia Campus and University of Bath, UK; and partly funded by the Newton Fund and the UK Engineering and Physical Science Research Council and the Science and Technology Facilities Council, with support from Ministry of Higher Education in Malaysia.

This conference brings together scientists and academics, and stakeholders from government and industry to discuss relevant issues and questions around the bioeconomy and the nexus, and recent advances in research, focusing on methodologies to address these issues. The focus will be on sustainable resources, technologies, systems engineering and integration, and techno-socio-economic-environmental impacts of the bioeconomy.

Selected papers will be published in **Special Issues of Food and Bioproducts Processing journal** and **Frontiers in Energy Research journal (both are Q1 journals)**. All accepted abstracts will be published in a Book of Abstracts to be provided during the conference. Awards will be given for best student posters and best papers.

TOPICS

Sustainable resources

- Renewable feedstocks (biomass, waste, etc.)
- Biomass characterization
- Biomass potentials and availability
- Databases and networks
- Sustainable agriculture, farming and land application
- Spatial modelling of resources (e.g. geospatial mapping)

Sustainable technologies

- Densification and pre-treatment
- Thermal, biochemical and chemical conversion
- Electrochemical technologies
- Storage processes
- Demonstrations, pilot plants and scale-up

Systems integration & techno-socio-economic-environmental impacts

- Carbon accounting
- Energy and exergy analysis
- Nutrient recovery and re-use
- Supply chain modelling and optimization
- Life cycle assessment (LCA)
- Environment-food-energy-water nexus
- Land use and water systems impacts
- Stakeholder analysis
- Agent-based modelling



<https://befewnexus2018.wixsite.com/home>



befewteam@befewnexus.com

WHO SHOULD ATTEND

We welcome the participation of researchers from academia, industry and government who are interested in the nexus of Energy-Food-Environment-Water in relation to biomass and bioenergy. Early-career researchers, post-doctoral researchers and graduate students are particularly encouraged.

GUIDELINES FOR ABSTRACT SUBMISSION

Presentations can either be in oral or poster format.

Abstract length: maximum of one A4 page, including title of the presentation, names and affiliations of the authors and not more than one figure. The font size should not be smaller than 11-pt Arial and the page margins should be no less than 2 cm on all sides. Authors must indicate their preferred presentation format and the conference theme they wish to present.

Submissions must be sent through EasyChair conference management system at:

<https://easychair.org/conferences/?conf=befew2018>

REGISTRATION FEES

	Early bird (by 10 Nov 2018)	Regular	On-site
STUDENTS	RM 700	RM 900	RM1000
PROFESSIONALS	RM1000	RM1200	RM1500
Group registration (>5 pax – students only)	RM 700 (free 1 pax)	RM 900 (free 1 pax)	RM1000 (free 1 pax)

**Fees include conference kit, lunch and refreshments for two days and dinner banquet on the first day*

IMPORTANT DEADLINES

Abstract submission
15 October 2018

Notice of acceptance
31 October 2018

Early bird registration
10 November 2018

Full paper for journal special issues
31 January 2019

For further info, please contact

SECRETARIAT BEFEW 2018
Department of Chemical & Environmental
Engineering
Faculty of Engineering
Universiti Putra Malaysia
43400 UPM Serdang, Selangor, Malaysia.
Tel: +603-8946 6287 | +603-8946 7569
Fax: +603-8656 7120

Email: befewteam@befewnexus.com

Website / Registration:
<https://befewnexus2018.wixsite.com/home>

We look forward to seeing you at the 2018 BEFEW conference!



<https://befewnexus2018.wixsite.com/home>



befewteam@befewnexus.com