

WORKSHOP CONTENT

Topics covered in this workshop will include both theoretical and practical aspects on nanocellulose fibers, including but not limited to the following topics:

- ✓ Overview on nanocellulose fiber (bacterial and plant)
- ✓ Synthesis of nanocellulose fiber
- ✓ Characterization and specifications of nanocellulose fiber
- ✓ Applications of nanocellulose fiber
- ✓ Nanocellulose fiber composites
- ✓ Nanocellulose potential in Malaysia
- ✓ Instrumentations involved in synthesis and characterization of nanocellulose fiber

Participants can expect benefits such as:

- ✓ Face-to-face discussion with experts in the field
- ✓ Able to differentiate different techniques used in nanocellulose fiber production
- ✓ Hands-on experience

SPEAKERS REVIEW



Prof. Dr. Haruo Nishida
Kyushu Institute of Technology, Japan

Haruo Nishida is a Professor at Kyushu Institute of Technology, Japan. He is the Editorial Advisory Board of *Polymer Degradation and Stability*. His research interest includes polymer chemistry, green chemistry, and ecomaterials. He is currently developing a method on one-pot nanofiber-nano-composite production using an extruder.



Dr. Rezal Khairi Ahmad
*Chief Executive Officer
NanoMalaysia Bhd*

Rezal Khairi Ahmad is the Chief Executive Officer of NanoMalaysia Bhd. He holds a PhD in Nanotechnology, Electronic/Electrical Engineering from London Centre for Nanotechnology, University College London. He is one of the key persons for nanotechnology development in Malaysia.



Prof. Dr. Paridah Md Tahir
*Director
Institute of Tropical Forestry and Forest Products,
UPM*

Paridah Md. Tahir is the Director and Professor at Institute of Tropical Forestry and Forest Products (INTROP), UPM. Her research specialty is on bonding of tropical wood and non-wood materials; and kenaf as raw material for composite products.



Prof. Dr. Mohd Cairul Iqbal Mohd Amin
Faculty of Pharmacy, Universiti Kebangsaan Malaysia

Mohd Cairul Iqbal is a Professor at Universiti Kebangsaan Malaysia. His current focus is on contemporary drug delivery strategies which include acquiring new knowledge of physicochemical properties of traditional and biotechnology-based drug molecules of natural origin as well as mechanisms of cellular uptake and transport. His research includes the use of bacterial nanocellulose for drug delivery application.



Mr. Kamarulzaman Kamaruddin
National Nanotechnology Directorate, MOSTI

His main tasks are to strategize the areas of Nanotechnology to be developed and innovated in Malaysia. He also implements the National Nanotechnology Policy for coordination, organizing and consolidating National Nanotechnology R&D activities, facilities and support services. This includes capitalization of all possible potentials and opportunities in the areas of Nanotechnology for Research, Technology, Product, Market, and Innovation Development in Malaysia.



WORKSHOP ON NANOCELLULOSE MATERIAL:

*FROM FUNDAMENTAL TO
APPLICATIONS*

March 21st – 22nd, 2016

Organized by:

**Laboratory of
Biopolymer and Derivatives,
Institute of Tropical Forestry and
Forest Products (INTROP), UPM**

In collaboration with:



**&
Faculty of Biotechnology and
Biomolecular Sciences, UPM**

PARTICIPANTS INFORMATION

Interested participants should fill out the registration form below and return it before **15th March 2016**.

Company Name :
 Business Type :
 Name : (Mr./Mrs./Dr.)

Job Title :
 IC No :
 Sex : F / M
 Address :

Contact No. :
 E-mail Address :
 Meal selection : Vegetarian / Non-vegetarian

Cancellation policy: Cancellation of participation made by March, 18th 2016 will be entitled for a 50% refund. After that date, no refund will be made. You may substitute delegates at any time and inform the organizer before the workshop.

Amount enclosed: RM

☐ Cheque ☐ Local Order ☐ Journal Transfer

All cheque/LO should be made payable to "**BENDAHARI UPM**"

Signature:

Date:

Kindly return the completed form to Mdm Nazlia Girun at nanocellulose.introp@gmail.com, or fax to **+603-8947 1896**.

TENTATIVE PROGRAMME

March 21, 2016 (Monday)	
08:30	Registration
09:00	Welcoming remarks by Head of Laboratory, Biopolymer and Derivatives, INTROP
09:10	Opening speech by Director, INTROP
09:30	Photography session & Tea break
10:30	Dr Rezal Khairi Ahmad <i>"Nanocellulose potential in Malaysia"</i>
11:30	Prof. Dr Haruo Nishida <i>"Biomass Composites from Bamboo-based Micro/Nano Fibers"</i>
12:30	Lunch and prayer
14:00	Demonstration and practical <i>"Production and Characterization of nanocellulose – Part I"</i>
16:30	Discussion
17:00	Afternoon tea; Workshop adjourn
March 22, 2016 (Tuesday)	
08:45	Mr. Kamarulzaman Kamaruddin <i>"Nanocellulose in Malaysia – Development and Government Initiatives"</i>
09:45	Refreshment
10:15	Prof. Dr Mohd Cairul Iqbal Mohd Amin <i>"Bacterial nanocellulose"</i>
11:15	Prof. Dr Paridah Md Tahir <i>"Nanofiber from agrowaste and its applications"</i>
12:15	Lunch and prayer
14:00	Demonstration and practical <i>"Production and Characterization of nanocellulose – Part II"</i>
16:15	Wrap-up
16:30	Certificate presentation; Closing ceremony
17:00	Afternoon tea; End of workshop

PROGRAMME DETAILS

Date:
March 21 – 22, 2016 (Mon-Tues)

Time:
8:30 AM to 5:00 PM

Venue:
Biomass Technology Centre, Biorefinery Complex,
Universiti Putra Malaysia,
Jalan Satelit, 43400 UPM Serdang, Selangor,
Malaysia
 (GPS location: 2.984810, 101.713172)

PARTICIPATION FEE

Student:
RM 700

Academic / Researcher from public agencies:
RM 850

Others (Private sectors, International participants):
RM 950

1. Fee includes Course Notes, Lab Material, Lunch, Tea, Snacks and Certificate.
2. Payment Mode: **Cheque/Local Order/Journal transfer**
 All cheque/LO should be made payable to "**BENDAHARI UPM**" and mailed to:

Laboratory of Biopolymer and Derivatives,
Institute of Tropical Forestry and Forest Products,
Universiti Putra Malaysia,
43400 UPM Serdang, Selangor
(Attn: Mdm Nazlia Girun)

Kindly indicate your name and contact number at the back of the cheque or LO.

FOR REGISTRATION INFORMATION;

Please call +603-8946 7009 or email
nanocellulose.introp@gmail.com