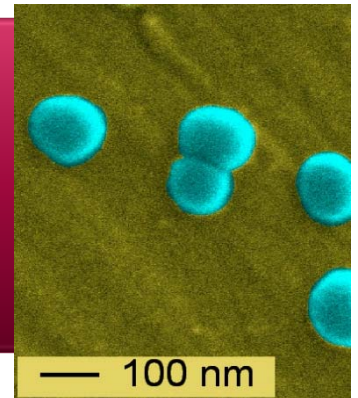




Workshop on “Nanoenabled Products and Medical Devices: Testing and Regulation of Nanosafety”

When: 13th -14th November 2017

Where: SIRIM Berhad
Lot 34, Jalan Hi-Tech 2/3,
Kulim Hi-Tech Park,
09000 Kulim, Kedah



Invited Speaker:
Professor Harald F. Krug

Manager for the International Research Cooperations in the General Management of Empa – Swiss Laboratories for Materials Science & Technology in Switzerland (St. Gallen). His company NanoCASE GmbH focuses on education and consulting of manufacturing companies on the safe production and use of nanomaterials or nanomaterial-containing products. He is further appointed as Professor at the University of Berne since August 2008. His work is focused on applications and implications of new materials, especially nanomaterials. Special emphasis lays on the development of new biological models and the establishing of reliable and valid methods for the testing of nanoparticles and nanomaterials. His work was awarded in 2006 with the *cwi*-Award of the German Ceramic Society and in 2007 with the Research Award for “Alternatives for Animal Testing” of the State Parliament of Baden-Württemberg.



Day 1 : Lectures (Main topics)

1. Basic Introduction to Biological and Environmental Aspects of Nanoparticles/Nanomaterials
2. Health and Environmental Impact of Nanomaterials
3. Basic Introduction to Toxicology on the Micro- and Nano-Scale
4. Risk Assessment
5. From In Vivo to In Vitro: The Medical Device Testing Paradigm Shift
6. Regulation and sources for information

Registration details:

Please email the filled registration form to nshahida@sirim.my or shirin@sirim.my, no later than on Nov 1st, 2017. Participants may choose to attend lectures alone or both lectures and training. However, the “hands-on” training seats are only limited to 12 people. Accepted participants will be informed by email of their enrollment in the workshop.

*Day 2 : Cytotoxicity of nanomaterials
(Hands-on training)*

1. Alamar Blue Assay
2. Making a nanomaterial suspension
3. Trypan Blue Assay



Organised by:
Industrial Centre of Innovation in Biomedical,
SIRIM Industrial Research,
SIRIM Berhad

Tel: 604-4017100 (General line)

Contact us: Nor Shahida (email:nshahida@sirim.my) (ext: 7143) /
Shirin (shirin@sirim.my) (ext:7261)

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13th November 2017/Monday (Lectures)

0800-0830	Registration
0830-0840	Welcome and opening ceremony of the Workshop by Senior Director of Industrial Centre of Innovation, SIRIM Industrial Research (SIR)
0840-0940	Basic Introduction to Biological and Environmental Aspects of Nanoparticles/Nanomaterials <ul style="list-style-type: none">➤ Application of Nanomaterials in the Environment, in Nanomedicine or Consumer Products➤ What makes "Nano" so Special?➤ Life-cycle of Products
0940-1040	Health and Environmental Impact of Nanomaterials <ul style="list-style-type: none">➤ The 3 nanotox principles➤ Tools for hazard identification➤ Health and environment
1040-1100	Tea break
1100-1200	Basic Introduction to Toxicology on the Micro- and Nano-Scale <ul style="list-style-type: none">➤ Hazard and Exposure➤ Exposure routes and organ toxicity➤ Biological Mechanisms in Toxicology➤ Toxicokinetics & Toxicodynamics
1200-1300	Risk Assessment <ul style="list-style-type: none">➤ Risk characterization & management➤ Work place scenarios and hazardous incidents➤ Safety measures
1300-1430	Lunch break
1430-1530	From In Vivo to In Vitro: The Medical Device Testing Paradigm Shift <ul style="list-style-type: none">➤ Medical Devices and the ISO Standard Process➤ Animal models and novel developments in toxicology
1530-1630	Regulation and sources for information <ul style="list-style-type: none">➤ Nano-Aspects of European and US regulation on medical devices➤ Reports and other sources for information
1630-1700	Discussion
1700-1710	Closing remarks by Director of Industrial Centre of Innovation in Biomedical (SIR)
1710-1740	Tea break/End of programme

Tentative Programme

14th November 2017/Tuesday (Hands-on training)

0900-1300	Alamar Blue Assay <ul style="list-style-type: none">➤ Tea break Making a nanomaterial suspension
1300-1430	➤ Lunch break
1430-1730	Trypan Blue Assay <ul style="list-style-type: none">➤ Tea break

REGISTRATION FEE

Category	Lectures	Lectures + hands-on training
Personnel from Industry / R&D institutions / Academia	RM 400	RM 550
Students from Institutions of Higher Learning	RM 300	RM 400
International	USD 200	USD 300

Fees are excluding GST (local participants). In order to guarantee that your name will be included in the participants list, both a completed registration form and full payment must be received by November 1st, 2017. For speedier on-site processing, payment must be received by November 1st, 2017. Payment can be made via cheque, Purchase Order (P.O) or Electronic Fund Transfer (EFT) and shall be made payable to "SIRIM BERHAD". Registration substitutions will be accepted at any time. Cancellations must be received in writing by email to Dr. K. Jamuna Thevi at jamuna@sirim.my. A registered participant who does not submit a written cancellation or attend the workshop is considered a no-show and is not eligible for a refund.

Please tick your selection of course here

I would like to attend the lectures only (13th November 2017)

I would like to attend the lectures and hands-on training (13th - 14th November 2017)

REGISTRATION FORM

Participant's name	
Designation	
Organization	
Address	
Contact Number	
Email	
Category of participant	() Professional () Student () International
Mode of payment	() Cheque () P.O () EFT (CIMB acc. 8602830601)

Signature:

Date: