

Workshop: Measurement of the morphological structure of fibers and particles

The use of raw material fibers and particles is ubiquitous and can be found in different sectors like chemistry, pharmacy, textile industry, timber industry and many more. The characterization of the shape and size of fibers and particles is important for development of composite material products, process optimization and quality control. This workshop invites users of the Fibreshape and Powdershape system as well as other people interested in the measurement and characterization of fibers and particles to discuss their experience, methods and solutions.

When: 12-13 April 2012

Where: NRC Biotechnology Research Institute, 6100 Royalmount, H4P-2R2 Montréal,

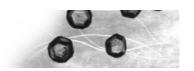
Québec, Canada

Agenda

12 April 2012, Thursday:

12.00	Lunch
13.10 - 14.10	Welcoming – Official start of Conference Dr. Denis Rho, NRC Biotechnology Research Institute, Canada Dr. Hubert Schmid, Innovative Sintering Technologies Ltd., Switzerland
	Short presentations: Theory, Methodology and Measurement Methods
14.10 - 14.30	Geometrical evaluation of the structure of plant products by Fibreshape Dr. Hubert Schmid, Innovative Sintering Technologies Ltd., Switzerland
14.40 - 15.00	Fibreshape utilization for size distribution of flax diameters Dr. Denis Rho and Jérémy Goimard, NRC Biotechnology Research Institute Canada
15.10 - 15.30	Length reduction of fibers in twin-screw extrusion of long fiber reinforced thermoplastics Dr. Salim Derdouri, Industrial Materials Institute
15.30 - 16.00	Panel discussion / Open discussion
16.00	Coffee break





	Short presentations: Image analysis and
16.30 - 16.50	Image analysis in the brain Georg Schmid, Vilters, Switzerland
17.00 - 17.20	Image analysis of fibres and particles and the human eye Dr. Hubert Schmid, Innovative Sintering Technologies Ltd., Switzerland
17.30 - 18.00	ASTM standard for cotton fineness measurements by image analysis? A video conference with A. Ulrich, Biolin Saskatoon
19.00	Dinner in a restaurant in Old Montréal (dinner is not included in the inscription fee). Please let us know if you want to join us by e-mail to: info@istag.ch
13 April 201	2. Friday
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09.00 - 10.00	Visit of the labs of the Biotechnology Research Institute Dr. Denis Rho, NRC Biotechnology Research Institute, Canada
10.00	Coffee break
	Characterization of fibers and particles
10.30 - 10.50	Curvature calculations on abrasive particles Prof. Christopher A. Brown, PhD, Matthew A. Gleason, WPI - Center for Surface Metrology, USA
11.00 - 11.50	Basics of powder and fiber characterization and challenges of image data processing with Powdershape and Fibreshape Dr. Hubert Schmid, Innovative Sintering Technologies Ltd., Switzerland
12.00	Lunch

13.30 - 15.00 Fibreshape and Powdershape demonstration (on demand)