

Tuesday – 12.06.2018

10:30

International powder and nanotechnology forum - Simulation and modeling

Room: CMF - Spektrum	Topic: International powder and nanotechnology forum
Form of presentation: Oral	Duration: 180 Minutes

Organised by the committee of IPNF 2018

10:30

Immersed Boundary Methods for Particle-Laden Flows and Fluid-Structure Interactions with Heat and Mass Transfer

[Prof. Dr. Takeo Kajishima | Osaka University | Japan](#)

Authors:

Prof. Dr. Takeo Kajishima | Osaka University | Japan

Shintaro Takeuchi | Osaka University | Japan

11:00

Upscaling from particles to continuum theory

[Prof. Stefan Luding | University of Twente | Netherlands](#)

11:30

Application of DEM simulation to Grinding Process in Mineral Processing and Recycling

[Prof. Dr. Chiharu Tokoro | Waseda University | Japan](#)

12:00

Advances in Discrete Element Modelling of Particle Systems in Industrial Applications

[Prof. Y. T. Feng | Swansea University | United Kingdom](#)

12:30

Recent progress on numerical simulations for industrial powder processes

[Prof. Dr. Mikio Sakai | The University of Tokyo | Japan](#)

13:00

Poster session

15:00

International powder and nanotechnology forum - Nanotechnology / Biotechnology

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15:00

Chemical Engineering Approach for Nano Materials -Supercritical Process for Nano catalyst, Hybrid Materials and Nano Ink-

[Prof. Dr. Tadafumi Adschiri | Tohoku University | Japan](#)

16:00

Carbon nanotube thin films for transparent, flexible and stretchable electronics applications

[Prof. Dr. Esko Kauppinen | Aalto University | Finland](#)

16:30

Atomic Layer and Plasma-enhanced Deposition of Metal and Metal Chalcogenide Materials for Energy Applications

[Prof. Dr. Sanjay Mathur | University of Cologne | Germany](#)

17:00

Novel Application of Microporous Type Ion-exchange Resin

[Prof. Dr. Naomi Shibasaki-Kitakawa | Graduate School of Engineering, Tohoku University | Japan](#)

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International powder and nanotechnology forum - Pharmaceutical Science and Technology

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10:30
Preparation process and particle design suitable for pharmaceutical tablets having special functions Hirofumi Takeuchi Gifu Pharmaceutical University Japan
11:00
Polyvinyl alcohol Revival of a polymer: Drug Solubility Enhancement & Modified Release Dieter Lubda Merck KGaA, Darmstadt Germany Authors: Dieter Lubda Merck KGaA, Darmstadt Germany Finn Bauer Merck KGaA, Darmstadt Germany Günter Moddelmog Merck KGaA, Darmstadt Germany Thomas Kipping Merck KGaA, Darmstadt Germany
11:30
Mitophagy-mediated Tumor Cell Death Caused by Folate-appended Methyl-β-cyclodextrin Keiichi Motoyama Kumamoto University Japan Authors: Keiichi Motoyama Kumamoto University Japan Yuki Yamashita Kumamoto University Japan Taishi Higashi Kumamoto University Japan Hidetoshi Arima Kumamoto University Japan
12:00
Particle engineering for protein delivery Alf Lamprecht University of Bonn Germany
12:30
Efforts on "Drug Fostering" in Japan Junichiro Kishi BASF Japan Ltd. Japan
13:00
Poster session