SAKES

Sendai Albi Knowledge in Engineering Seminars

TOHOKU UNIVERSITY

IMT Mines Albi-Carmaux
École Mines-Télécom

Powder processing: mecanochemistry, grinding, dry granulation
Thermochemical conversion: pyrolysis, gasification
Functional materials: materials for energy storage, advanced materials for pharmaceutical and food applications
Polymers processing

東北大学 多元物質科学研究所
IMRAM
Institute of Multidisciplinary Research for Advanced Materials Tohoku University

RAPSODEE
UMR CNRS 5302
IMT Mines Albi-Carmaux
École Mines-Télécom
cnrs

Research
IMR TOHOKU UNIVERSITY
Institute for Materials Research,Tohoku University

Thermal Barrier Coatings, Functional materials
Advanced metrology for thermal and mechanical problems
Metal Additive Manufacturing
Behavior Modeling and Numerical Simulation strategies applied to manufacturing and forming processes

ICA

IMT Mines Albi-Carmaux
École Mines-Télécom

OCTOBER 23, 2019

9:05 am: Toulouse	IMRAM + IMR (11) Philippe will welcome you at Toulouse Airport and show you the shuttle bus
Transfer to Albi (Ibis Style)	Shuttle bus
At about 10:30 am: arrival to Ibis style	Elsa will welcome you The shuttle bus will also stop to other hotels
To be defined	Guided Visit of the Episcopal City

OCTOBER 24, 2019

Arrival of Prof Ajiri in Toulouse **Hotel les Pasteliers**	**Taxi driver**
8:15 am: Ibis style (meeting point)	Shuttle bus
8:30 am: IMT Mines Albi	Registration
9:00-10:00 am	Opening session: Presentation of each lab = 4*10 to15 min
10:00-10:30 am	Coffee-Break
10:30 am-12:00 pm	Laboratory visit
12:30-1:30 pm	Lunch
1:30-3:15 pm	Session A And Poster session
3:15-3:45 pm	Coffee-Break and poster session
3:45-4:45 pm	Non-thematic sessions
5:00 pm: transfer to Ibis style*	Shuttle bus
5:45 pm*	Departure from IBIS Style to Museum (by walking)
6:00 pm	Museum visit (Toulouse Lautrec)
8:00 pm*	Gala dinner “la Vermicellerie” (Hôtel Mercure)

OCTOBER 25, 2019

8:00 am: Ibis style*	**Shuttle bus Ruban bleu**
8:30-10:15 am	Session B Poster session
10:15-10:45 am	Coffee-Break
10:45 am-12:30 pm	Lunch
2:00-3:45 pm	Session C Poster session
3:45-4:15 pm	Coffee-Break
4:15-5:15 pm	Non-thematic sessions (seems to be cancelled, transfer will be changed)
5:30 pm: transfer to Ibis style*	Shuttle bus

OCTOBER 26, 2019

8:00 am*	**Departure from IBIS Style** **Albi to Toulouse**
10:00 am – 12:30 pm	Visit of Final Assembly line
12:30 pm – 2:00 pm	Lunch
2:00 pm – 3:30 pm	Visit of Aeroscopia Museum
At about 3:45 pm: Toulouse Airport	IMR (3)
At about 3:45 pm: Hotel Mercure Toulouse Wilson	IMR and IMRAM

SUGGESTED PROGRAMME

October 24-25, 2019

	October 24		
9:00-10:00am	Opening sessions		
10:00-10:30am	*Coffee-break*		
10:30am-12:00pm	Laboratory visit		
12:00-1:30pm	*Lunch*		
1:30-3:15pm	Session A RAPSODEE	Session A ICA	Poster session
3:15-3:45pm	*Coffee-break*		
3:45-4:45pm	RAPSODEE (other topics)	ICA (other topics)	
	Gala Dinner		

	October 25		
8:30-10:15am	Session B RAPSODEE	Session B ICA	Poster session
10:15-10:45am	*Coffee-break*		
10:45am-12:30pm	Session C RAPSODEE	Session C ICA	
12:30-2:00pm	*Lunch*		
2:00-3:45pm	Session D RAPSODEE	Session D ICA	Poster session
3:45-4:15pm	*Coffee-break*		
4:15-5:15pm	RAPSODEE (other topics)	ICA (other topics)	

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PRESENTATIONS

Session	Theme title	IMRAM	RAPSODEE
A	Functional materials: materials for energy storage, advanced materials for pharmaceutical and food applications	Prof Hiroyuki Fukuyama, “High-temperature thermophysical property measurements for metallic melts”	Dr Doan Pham Minh “Fired-clay materials for energy storage” Prof Maria Inês Ré “Functional powders for pharmaceutical applications”
B	Polymers processing	Prof Atsushi Muramatsu “Expectation to Next Generation 3GeV SR Facility Constructed in our Campus for Materials Characterization”	Dr Martial Sauceau “Extrusion for polymer foaming”
C	Powder processing: mecanochemistry, grinding, dry granulation	Prof Junya KANO, “Computer simulation of Powder Processing by DEM and ADEM”	Prof Alain de Ryck “Flowability of biomass powders”
D	Thermochemical conversion: pyrolysis, gasification	Prof Junya Kano “Hydrogen production from sewage sludge through gasification route” Prof Tadafumi Adschiri, “Supercritical route for catalyst”	Dr Elsa Weiss “Hydrothermal processes applied to organic materials”

PRESENTATIONS (OTHER TOPICS)

October 24, 3:45-4:45

- Martial Sauceau: 3D-printing
- Doan Pham Minh: Hydroxyapatite-based catalysts for biogas reforming
- Fabienne Espitalier: Modelling of the gypsum- plaster system in isothermal crystallizer
- Mouna El Hafi: Heat transfer modelling by statistical methods

POSTER SESSION

- ADEM Simulation for Analysis of Compaction Behavior of Deformable Particles: Ryo Watanabe, Kizuku Kushimoto, Shingo Ishihara, Junya Kano
- Mechanism study of hydrogen generation from polyethylene
- in presence of catalysts: Saori Inoue, Anh T. N. Dao, Yoshitaka Koseki, Chika Watanabe, Shingo Ishihara, Junya Kano, Hitoshi Kasai
- Numerical simulation of particles behavior in a jet mill: Kaya Suzuki, Kizuku Kushimoto, Shingo Ishihara, Junya Kano, Rikio Soda, Kimihiro Ozaki
- Tannic acid-modified SN-38 nano-prodrugs toward effective anticancer drug delivery: Nozomi Saito, Farsai Taemaitree, Yoshitaka Koseki, Ryuju Suzuki, Anh Thi Ngoc Dao, and Hitoshi Kasai
- Solvothermal synthesis of Mg-Mn binary oxide nano particles as cathode for Mg rechargeable battery: Rika Yokozaki, Hiroaki Kobayashi, Itaru Honma

POSTER SESSION

- Marion Carrier: PYROKINE 'Fast pyrolysis of waste biomass: Dual kinetics'
- Alain Chamayou/Rachel Calvet: Investigation of mechanically induced organic reactions in solid state. Kinetic study of a Diels-Alder synthesis carried out in a vibratory ball mill
- Pauline Fontaine: Steam-thermolysis of composite mixture wastes: Process impact on the quality of the recovered carbon fiber
- Thomas
- Léa
- Séverin
- Esteban
- Marine
- 1 doctorant sur l’extrusion CO2
- Amel
- Florent Thévenon

PARTICIPANTS

Session	Theme title	Participants (RAPSODEE)
A	Functional materials: materials for energy storage, advanced materials for pharmaceutical and food applications	Doan, Inês, Fabienne, Suenia, Jacques, Romain, Martial, Elsa
B	Polymers processing	Martial, Jacques, Romain
C	Powder processing: mecanochemistry, grinding, dry granulation	Alain dR, Rachel, Alain C., Suenia, Jacques, Martial, Romain
D	Thermochemical conversion: pyrolysis, gasification	Doan, Ange, Marion, Jean-Louis, Javier, Yannick, Elsa, Alain dR

Michel Baron