



Center of  
Smart Interfaces

Disperse  
Feststoffe



TECHNISCHE  
UNIVERSITÄT  
DARMSTADT

## VISIT AND WORKSHOPS dedicated to 40<sup>th</sup> anniversary of cooperation between T. U. Darmstadt and P. U. Bucharest

In the period 25 - 28 August, REOROM group from the **Politehnica University of Bucharest** (Power Engineering Faculty) organized a visit and a workshop at **T.U. Darmstadt** (contact person: Dr. Jana Freihöfer). **These activities were dedicated to 40<sup>th</sup> anniversary of cooperation between the two universities.**

The program of the visit was the following:

25 – 26: visit CSI (Center of Smart Interfaces) - contact person: Prof. Steffen Hardt

27: visit Institut of Material Science - contact person: Prof. Ralf Riedel

28: Fresenius Kabi Company (Bad Homburg) – contact person Prof. Cris Gallegos.

### Social Program

Day	Time	Place	Visit	Activities
25 August	10.00 – 12.00	TUD Lichtwiese	CSI, Material Science	Orientation visit, first contact
	14.00 – 15.00	TUD – Central Location		Orientation visit
	15.00 – 20.00	Darmstadt tour		Cultural
26 August	9.00 – 10.00	TUD – Central Location		Presentation TUD (Vroni Thiele)
	10.30 – 15.30	TUD Lichtwiese	CSI	Laboratories, Round Table, Presentations
	15.30 – 20.00	Mathildenhoehe & Park		Art visit
27 August	11.00 – 16.00	TUD Lichtwiese	Material Science	Laboratories, Round Table, Presentations
	18.00 – 20.00	TUD Lichtwiese		Discussions & Grill
28 August	10.00 – 16.00	Fresenius Kabi Company (Bad Homburg)		Laboratories, Production units

In the 3 days visit at TUD were organized two workshops on scientific subjects of common interest, where the PhD students and post-docs took the opportunity to introduce their work, to establish contacts, and to enjoy the „after the scientific sessions friendly meetings“. During the visit have been also analyzed possible directions of further cooperations between the two institutions, mainly at the level of PhD exchange and in developing applications for common projects.

## Scientific Program

Organizers: Prof. Steffen Hardt, Prof. Corneliu Balan



Day	Time	CSI	
26 August	13.00 – 14.00	Prof. Corneliu Balan	Presentation of the REOROM group – Microfluidics at UP Bucharest
		Nicoleta Tanase, Post-doc., Prof. Diana Broboana	Flow over an immersed cylinder, a benchmark problem for free surface flows
		Rodica Damian, Stefan Simionescu, PhDs	Experimental and numerical simulations of vortex rings
		Ioana Omocea, PhD	Coalescence of drops at interface – experimental investigation
		Mihaela Turcanu, PhD	Extensional rheology of complex fluids
	14.00 – 15.00	Ramin Hajian	Droplet production in a microfluidic device by solvent shifting
		Iman Nejati	Thermocapillary instabilities of liquid films
		Tamal Roy	DNA stretching in microchannels
		Dr. Subramanian Namboodiri	Optically-induced Marangoni tweezers
		Dr. Mathias Dietzel	Thermal transport phenomena in electrolytes
		Dr. Tobias Baier	Gas kinetics in nanoratchets
	15.00 – 15.30	Conclusions	

## Scientific Program

Organizers: Prof. Ralf Riedel, Prof. Corneliu Balan



Day	Time	Material Science	
27 August	14.00 – 15.00	Prof. Corneliu Balan	Fluid Mechanics, Rheology and Ceramic Materials
		Nicoleta Tanase, Post-doc., Prof. Diana Broboana	Flows in vicinity of solid surfaces – experiments and numerical modeling
		Rodica Damian, Stefan Simionescu, PhDs	Impact of liquid jets on solid surfaces
	15.00 – 16.00	Jan Kaspar, Postdoc	Polymer-derived ceramics for energy storage application
		Sarabjeet Kaur, PhD	Synthesis and processing of metal-modified silicon carbide-based ceramic nanocomposites
		Shrikant Bhatt, PhD	Indian education system
	16.00 – 16.30	Conclusions	

### LIST OF REOROM PARTICIPANTS

Nr	First Name	Name	Position/year of study
1	Rodica Iulia	Damian*	PhD student/ 1st year
2	Stefan	Simionescu	PhD student/ 1st year
3	Mihaela	Turcanu**	PhD student/ 1st year
4	Ioana Laura	Omocea	PhD student/ 1st year
5	Nicoleta Octavia	Tanase	Post-doc/ 1st year
6	Diana	Broboana	Assoc. Professor
7	Corneliu	Balan	Professor

\*PhD student who started a period of 4 months study at TUD – CSI.

\*\*PhD student who is included in an exchange program with Fresenius Kabi Company .

## The visit and scientific sessions in pictures

25. August. 2014



26. August

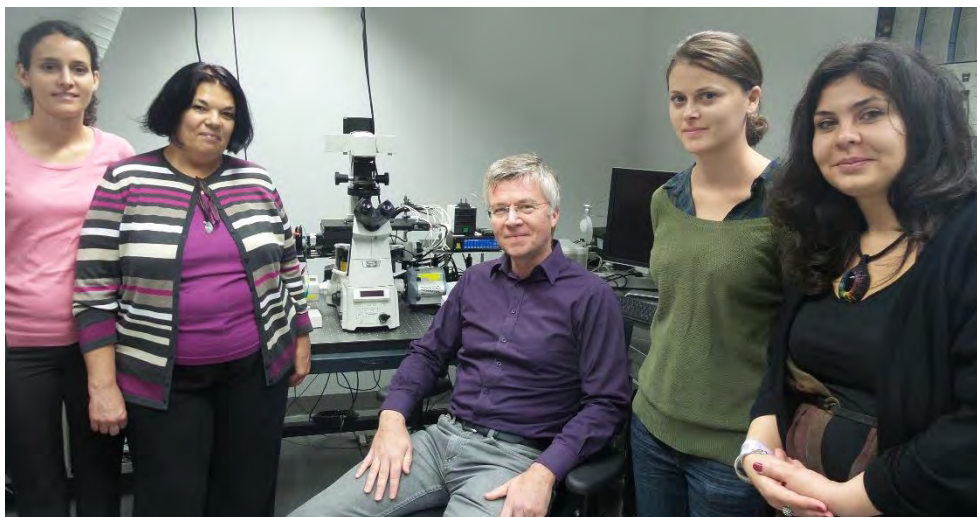


REOROM Group and Vroni Thiele (Erasmus coordinator) – Presentation of TU Darmstadt



Visit at the TUD Library





Visit at CSI Laboratory – Prof. Steffen Hardt



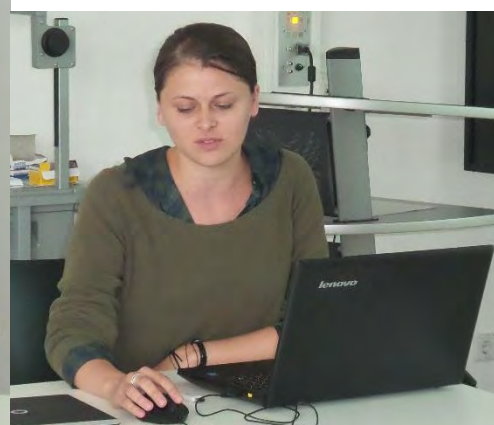
PhD. Rodica Damian (UPB) and PhD Miclos Vecsei (TUD)



Prof. S. Hardt and part of his team



Assist. Prof. Nicoleta Tanase and Assoc. Prof. Diana Broboana (UPB)



PhD Ioana Omocea (UPB)



REOROM Group UPB) and Microfluidics Group (CSI – TUD)



REOROM Group at CSI – TUD



Finally some sun! Visit at Mathildenhoehe.



27. August



Visit at Material Science Laboratories, with Dr. Emanuel Ionescu



Dr. Jan Kaspar



REOROM Group at Material Science session



Visit at Material Science – Prof. Ralf Riedel's group and Prof. Corneliu Balan's group (REOROM)





REOROM Group at the new Aula at Lichtwiese



Prof. Corneliu Balan, Prof. Diana Broboana, Dr. Nicoleta Tanase and the PhD students at TUD Campus Lichtwiese





Enjoy the berbecue at Material Science

28 August



REOROM Group at Fresenius Kabi Company with Prof. Cris Gallegos (Scientific Director)

Director REOROM Group,

A handwritten signature in black ink, which appears to read 'Corneliu Balan'.

Prof. Corneliu Balan