

**Third Circular (July 2005)**  
**MPTL 10**

**Dear colleagues, participants and friends,**

Please register and apply for scholarships (*Go East-Go West* and *Young Scientists*).

Today we will inform you about the program, which might be adapted and finalized during August, if necessary.

**Program**

We will have three main categories

- Status reports about the use of MM in different countries and in Europe. Evaluation report about MM material in the subject heat, thermodynamics and statistical mechanics.
- Lecturing by means of MM.
- Ten years of our workshop / looking backward and forward.

We will have 8 invited speakers, about 20 interactive posters and 10 oral presentations.

**Wednesday October 5**

10:00 – 14:00	Registration
14:00 – 14:30	Opening (content of workshop [Jodl], organization [Kirstein])

*First Session – Status Reports*

14:30 – 15:30	R. Bacon	Use of Multimedia in Physics Teaching in the United Kingdom
15:30 – 16:00	Coffee break	
16:00 – 16:45	B. Eckert	New Initiative: Status Report "Use of Multimedia in Europe"
16:45 – 17:30	L. Mathelitsch	Report and Recommendations on Available Multimedia Material for Teaching Heat, Thermodynamics and Statistical Mechanics
17:30 – 18:00	Discussion (Jodl)	
18:00 – 20:00	Welcome party	

**Thursday October 6**

*Second Session – Lecturing with Multimedia*

9:00 – 9:45	R. Chabay	VPython: 3D simulation and visualization in the introductory university physics course
9:45 – 10:30	V. Duarte-Teodoro	Mathematical Modelling with Modellus: linking mathematics and physics
10:30 – 11:15	H. J. Korsch	Use of Multimedia in a Lecture about Nonlinear Dynamics
11:15 – 13:00	Interactive Poster Session A (# 1 – 10)	
13:00 – 14:00	Lunch	

*Third Session – Lecturing with Multimedia*

14:00 – 14:45	D. Schumacher	E-Learning Tools in Student Labs
14:45 – 15:30	M. Belloni	Using Open Source Physics to Visualize Advanced Problems - from Classical to Quantum Mechanics
Oral Presentations on experiences “Use of MM in Quantum Mechanics”		
15:30 – 15:45	J. Hanc	The Feynman Quantum Mechanics with the help of Java applets and physlets in Slovakia
15:45 – 16:00	B. Zakhariev	Algorithms of discoveries from experience of participation in turn over in quantum theory from direct to inverse problem and related problems of creative activity
16:00 – 18:00	Interactive Poster Session B (# 11 – 20)	
19:00 – ...	Workshop Dinner	

**Friday October 7***Fourth Session – Experiences (from school to university level)*

9:00 – 9:15	A. Corrado	The Illustrated Physical Discourse
9:15 – 9:30	F. Corni	Didactic planning with blended activities in a web interactive environment: the case of simple machines with teacher-students for primary school
9:30 – 9:45	F.-K. Hwang	The wave concepts hold by senior high school students in Taiwan and the simulation courseware to help them
9:45 – 10:00	O. Zajkov	No time for experiments in the classroom
10:00 – 10:15	B. Logofatu	ICT in Physics Education at University of Bucharest
10:15 – 10:30	O. Popov	Using outdoor physics activities and web-site support to stimulate inquiry-based learning in science teacher education in Sweden and Russia
10:30 – 10:45	J. Obdržálek	Multimedia for Physics
10:45 – 11:00	T. Greczyło	Macroscopic Model of Atomic Force Microscope
11:00 – 11:30	Coffee break	
11:30 – 12:30	T. Ellermeijer	Ten Years of MPTL-Workshops (Past and Future)
12:30 – 13:00	Discussion	Topics: 1. future workshop (2006, 2007), 2. concluding remarks (Jodl)
14:00 – ...	Sightseeing Tour	

## Participants

Up to now we have about 60 participants, mainly coming from Middle and East Europe. In total from 26 different countries, 6 non-European.

Austria	2	Slovakia	2
UK	2	Romania	1
Latvia	2	Bulgaria	2
France	3	Sweden	1
Czech	4	Netherlands	2
Italy	4	Hungary	1
Poland	6	Ukraine	2
Slovenia	2	Macedonia	1
Portugal	2	Yemen	1
Germany	8	USA	2
Norway	1	Mexico	1
Spain	1	Taiwan	1
Belgium	2	Russia	1

During August/September we will send out the last/fourth circular (how to reach the institute, where to register, ...).

With best regards

J. Kirstein, TU Berlin  
V. Nordmeier, TU Berlin

H. J. Jodl, TU Kaiserslautern  
B. Eckert, TU Kaiserslautern