

## 9<sup>TH</sup> WORKSHOP ON MULTIMEDIA IN PHYSICS TEACHING AND LEARNING

Dear Colleague,

We would like to inform you about and to invite you to the 9th Workshop on Multimedia in Physics Teaching and Learning.

The workshop will take place at the University of Graz, Austria, September 9–11, 2004.

This workshop follows the successful meetings in Parma and Prague and is again an official EPS conference. It keeps also the general aims of the previous workshops, namely to provide for an overview and an exchange of trends, research results, new materials and experiences with regard to the use of multimedia in physics education, at the university as well as on the school level. If you are interested in MPTL9 please visit the homepage <http://physik.uni-graz.at/MPTL9>. It contains detailed information about the topics of the conference, about accommodation, travelling, registering and submitting contributions.

Please forward this circular to colleagues who are active or interested in this topic.

### Content

The workshop is open for all contributions related to the development and use of multimedia products in physics teaching and learning. In particular, three topics will be given more attention at this workshop:

*Lecturing with multimedia* – possibilities of the role of multimedia in creating courses in physics (internet, applets, problem solving, learning environments,...)

*Research and physics education* – can presentations and discussions of recent research data in some field contribute to a more attractive and modern way of teaching physics?

*Multimedia in mechanics teaching and learning* – worldwide offered software products on mechanics will be evaluated. The results of the evaluations in Europe, as well as in the US, will be presented.

### Contributions

There will be three groups of presentations: *invited talks*, talks selected from the *contributions* of the participants, and *interactive poster presentations*. The interactive poster sessions start with short, informal, plenary, oral presentations of the contributions. Enough time (about two hours) and space (computers and poster area) will be provided such that the individual products can be viewed and discussed interactively.

As in the past workshops, there will be just a few invited talks, the main part of the time will be dedicated to *presentations of the participants*. Therefore you are kindly *invited to submit a contribution* and therewith enrich the scientific content of the meeting.

### Registration

The *registration fee* of the workshop will be 60,- Euro. The registration fee covers: participation at the workshop; folder with information about the workshop, booklet of abstracts, information about Graz and Styria; beverages and snacks at the coffee breaks; lunch (Friday).

The registration fee has to be paid *in cash* when registering at the *workshop office desk*.

### Accommodation

Rooms have been reserved at a students' hostel (run as a hotel during summer vacations): *Studentinnen- und Studentenheim der Akademikerhilfe*, Untere Schönbrunnngasse 7–11, 8043 Graz. Price: Euro 37,- per person and night (breakfast included, all rooms with bath/shower and WC).

It takes a 10–15 minutes walk from the students' hostel to the conference venue, there is also a bus connection.

### Travel

*Direct flights* to Graz are offered from several airlines (including Ryanair). There are also good *train connections* to Graz (the train ride from Vienna to Graz, for example, takes about two and a half hours).

### Preliminary Schedule

#### Wednesday, September 8

In-service training for school teachers (in German) „Multimedia im Physikunterricht“

#### Thursday, September 9

Registration (10:00–14:00)

Opening (14:00)

First session (14:30–18:00)

#### Friday, September 10

Second session (9:00–10:30)

Coffee break / Interactive poster session (10:30–12:30)

Lunch

Third session (14:00–15:30)

Coffee break / Interactive poster session (15:30–17:30)

Workshop dinner

#### Saturday, September 11

Fourth session (9:00–12:30)

Excursion to „Weinstraße / Styrian Tuscany“ (12:30– all afternoon)

Because the MPTL9 meeting coincides with the annual *CoLoS* (Conceptual Learning of Science) meeting, we have organized a number of joint sessions in order to facilitate the exchange of information between these two groups. Additional information about CoLoS can be obtained from their website: <http://www.colos.org>.

It might be of interest for you and important for your planning that the University of Graz will host a conference with a related topic in the week following our workshop, namely the *9th European Conference on Media in Higher Education*, September 16–19, 2004 <http://www.gmw04.at/>

With our best regards, for the organizing committees:

*H.-J. Jodl*, Univ. Kaiserslautern

*L. Matbelitsch*, Univ. Graz

## AZ ELFT VÁKUUMFIZIKAI SZAKCSOPORTJA ÉS A IUVSTA MNB KÖZÖS SZEMINÁRIUMAI 2004 MÁSODIK FÉLÉVÉBEN

Az előadások helye: az ELFT székházának (Budapest, I. Fő utca 68.) II. emelet, 222. terme.

### 2004. szeptember 7-én 14 órakor:

*Gyulai József* (MTA MFA, Budapest): Lehetőségeink az EU6-ban és az EU7 felé

*Kövér László* (MTA ATOMKI, Debrecen): Beszámoló a velencei IVC-16 kapcsán tartott IUVSTA ECM-95, ECM-96 és GM-15 ülésekről

### 2004. október 26-án 14 órakor:

*Pödör Bálint* (MTA MFA, Budapest): Kvantumos Hall-effektus félvezető heteroátmenetekben

### 2004. november 23-án 14 órakor:

*Berkó András* (MTA Reakciókinetikai Kutatócsoport, Szeged): Az alagútmikroszkópia hozzájárulása az oxid–fém határfelületek megismeréséhez

Az előadásokra minden érdeklődőt szeretettel vár a szakcsoport és az MNB vezetősége.

Felhívjuk az érdeklődők figyelmét, hogy a szakcsoport társszervezésében a Joint Vacuum Conference-10 (JVC-10, <http://www.jvc10.si>) a szlovéniai Portorozban kerül megrendezésre 2004. szeptember 29. és október 2. között.