

The Polymer Institute of the Slovak Academy of Sciences (PISAS) invites you to take part in a workshop: "Recent Advances in the Use of Chemiluminescence for Conservation Science", organized within the 7th Framework EU project "Strategy for the preservation of plastics artefacts in museums collections (Popart) - Grant agreement no.: n<sup>o</sup>212218".

Within the last 10 years the Polymer Institute of the Slovak Academy of Sciences has made significant progress concerning the applicability of chemiluminescence to the characterization of polymer stability. It is due to production of highly sensitive instrument Lumipol 3 which enabled the revisitation of many experiments from the past.

The workshop follows the series of conferences organized by the Polymer Institute and ATLAS company, such as :

**1998 in Smolenice:**

*Practical applications of chemiluminescence at the oxidation of chemical systems*

**2000 in Leipzig** organized by Atlas company.

*Symposium on chemiluminescence*

**2005 in Smolenice:**

*Practical applications of chemiluminescence at the oxidation of chemical systems*

The aim of the workshop is to bring together experienced users of chemiluminescence with those looking for an appropriate technique to throw some light on the residual stability of polymer materials. Special attention will be paid to plastics users, conservators in museums, students in polymer chemistry, conservation and materials science.

The subject of the workshop will be focused on the following topics:

1. Chemiluminescence from plastics used for production of museum's artefacts (polyurethanes, PVC, PS, rubbers, PMMA, etc.)
  - pure polymers
  - polymers with additives
2. Mechanism of the light emission from thermally oxidized polymers and potential of the method in estimation of the residual service life of the polymers.
3. The comparison of two essential chemiluminescence patterns (sigmoidal increase combined with decay or steady decay)
4. Chemiluminescence and other methods used for the study of polymer degradation, the search for the mutual relations.

5. Chemiluminescence from natural polymers like cellulose, lignin, wood, starch, etc.

6. Outlook of further development of imaging techniques.

**Accommodation** is provided at the venue of workshop: Smolenice castle (situated 40 km to the north from Bratislava) in Low Carpathian Mountains. At present it serves as Congress Centre of the Slovak Academy of Sciences.

Double and triple rooms are available. As the number of beds is limited by the capacity of the castle we recommend that potential participants reserve the accommodation as soon as possible.

The average price of one double room is 70 Euro / night. The price of one bed shared is 40 Euro/ night. The price of apartment is 95 Euro/ night.

**All meals** will be served at the site of Workshop. The full day pension is 30 Euro

## Organizing Committee

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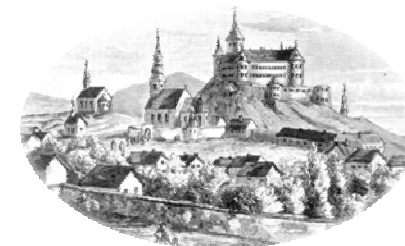
Invites you to take part at the

INTERNATIONAL WORKSHOP

## *RECENT ADVANCES ON THE USE OF CHEMILUMINESCENCE FOR CONSERVATION SCIENCE*

The Workshop will take place in the Congress  
Centre of SAS  
Castle Smolenice

**October 12 – 15, 2010**



Circular

**POPART**  
Preservation Of Plastic ARTefacts in museum collections

single r.       double r.       triple r.

preferably shared with: .....

Signature: ..... Date: .....

Deadline for the registration is July 31, 2010

**REGISTRATION FORM  
INTERNATIONAL WORKSHOP**

**RECENT ADVANCES ON THE USE OF  
CHEMILUMINESCENCE FOR CONSERVATION  
SCIENCE**

*Congress Centre of the Slovak Academy of Sciences,  
Castle Smolenice*

**October 12 -15, 2010**

(Please fill in CAPITAL LETTERS)

Full name (Mr., Mrs.).....

Affiliation or organization.....

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Full postal address.

.....

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Tel.: ..... Fax: .....

E-mail: .....

I would like to participate at the workshop with

Invited lecture       Contributed lecture

Poster       Without any presentation

Tentative title.....

.....

Please, reserve for me accommodation in: