

# Závěrečná zpráva o řešení projektu za rok 2013- 2014

## Programový projekt AKTION

*AKTION Česká republika - Rakousko*

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<b>Partnerská země:</b> <b>Rakousko</b>	
<b>Číslo projektu: 68p2</b>	
<i>Název projektu:</i> <b>6. bilaterální česko-rakouský odborný seminář: Nové trendy v aplikaci foto a elektro katalýzy</b> <i>Project title:</i> <b>6th bilateral Czech-Austrian scientific workshop: New trends in photo and electro catalysis</b>	
<b>Řešitel projektu v ČR:</b> <b>Prof. Dr. Ing. Josef Krýsa</b>	<b>Řešitel v partnerské zemi:</b> <b>Assoc. Prof. Dr. Guenter Fafilek</b>
<b>Dosažené výsledky – plnění cílů projektu:</b> The 6 <sup>th</sup> Czech - Austrian workshop „New trends in application of photo and electro photocatalysis“ was a successful continuation of the conference series organized jointly by Institute of Chemical Technology, Prague, University of Vienna and Vienna University of Technology. The Workshop program was finalized before the start of the workshop in cooperation with partner institution in Austria ( <b>enclosed as Annex I</b> ). Workshop was <b>held three days from 2<sup>nd</sup> to 4<sup>th</sup> December 2013. The planned number of participants from Austria was 9 and from Czech Republic it was 24. Two students from Austria could not attend the workshop, so they were replaced by two Czech students. The number of Czech participants was thus 26 (including 13 students).</b> The topic was focused to the recent advances of photoelectrocatalysis and electrochemistry in respect to their application in environment cleaning and alternative energy production. The workshop was attended by new undergraduate and PhD students enrolled at ICT Prague and ICP AS CR in 2013. It is possible to say that similarly as 4 <sup>th</sup> and 5 <sup>th</sup> workshop also the 6 <sup>th</sup> workshop represented all positive aspects of a small specialised international conference. Participants were from <b>five Czech institutions:</b> Institute of Chemical Technology, Prague, Jaroslav Heyrovsky Institute of Physical Chemistry, Academy of Sciences of the Czech Republic, Institute of Chemical Process Fundamentals, Academy of Sciences of the Czech Republic, Faculty of Chemical Technology, Technical University Brno, Institute of Physics AS CR; and from <b>three Austrian institutions:</b> University of Vienna, Vienna University of Technology, Austrian Institute of Technology. Beside this there were participants from <b>three other European countries:</b> France (CNRS Mendon-Bellevue), Slovakia (Slovak University of Technology in Bratislava) and Germany (Friedrich-Alexander University, Erlangen).	

The objective of the workshop was to further intensify the exchange of experience and new ideas in the field of semiconductor photocatalysis, EPR spectroscopy, dye sensitised solar cells, electrochemically prepared self organised structures, AOP for water treatment, fuel cells, electrochemical engineering and modelling of electrochemical processes. Workshop was especially useful for students, for most of them it was one of the first opportunities to present their results at the international forum. All contributions were well accepted and appreciated, and the discussions among the participants were found beneficial.

In the project application it was planned to publish the Proceedings of the 6<sup>th</sup> Czech-Austrian workshop. Because the workshop was held in December 2013, Proceedings was printed in 2014.

The template of Proceedings contributions (2-4 pages) were created and together with Workshop program were then send to all the participants. Participants were then asked to send their contributions between February – March. 23 contributions of presenting authors to Proceedings were received First of all submitted contributions were edited from scientific point of view. Some manuscripts were returned to authors for revisions. Then the language of all the manuscripts has been checked. Editors of Proceedings were: Prof. Dr. Ing. Josef Krýsa and Doc. Dr. Ing. Petr Klusoň. The final correction of the proceedings was done jointly by Workshop chairman (Josef Krýsa) and by Austrian partner (Gunter Fafílek).

Finally Proceedings (ISBN 978-80-7080-886-3) were published and distributed in September 2014 to all participants (Anex III).

#### **Financial requirements in the Czech republic- 2014**

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| i) Publication of the workshop proceedings 60 pcs         | 4830 Kč    |
| ii) Editorial and language corrections of the Proceedings | 6090 Kč    |
| iii) Fare of Czech participants.                          | 4059.65 Kč |

Travel expenses of the Proceedings editor to the partner institution in Austria (TU Wien). The purpose was the join scientific corrections of contributions in the Proceedings and preparation of Proceedings for press.

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| iv) book for PhD students   | 3020.35 Kč |
| Photocatalysis and Water Purification, edited by Pierre Pichat, Wiley-VCH |            |

Total sum	<b>18 000 Kč</b>
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The cost for the publication of the proceedings was lower than the planned value. The remaining amount was spent for the book: Photocatalysis and Water Purification, edited by Pierre Pichat, Wiley-VCH (3020.35 Kč.). This book will be utilized by PhD. students at ICT dealing with Photocatalysis.

<p><b>V Praze</b>  <b>dne: 27.1. 2015</b></p>	<p><b>Jméno a podpis řešitele projektu:</b>    Prof. Dr. Ing. Josef Krýsa <b>Telefon: 220444112 (4009)</b></p>	<p><b>Jméno a podpis statutárního zástupce organizace:</b>  <b>Telefon:</b></p>
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- Anex I. Program of the Workshop proceedings
- Anex II: Proceedings of the 6<sup>th</sup> Czech-Austrian workshop
- Anex III. Statement of account