

# Závěrečná zpráva o řešení projektu za rok 2021



## Programový projekt **AKTION**

*AKTION Česká republika - Rakousko*

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| <b>Partnerská země:</b>  | <b>Rakousko</b>  |
| <b>Číslo projektu:</b>   | <b>89p3</b>  |
| <i>Název projektu:</i> <b>10. bilaterální česko-rakouský odborný seminář: Nové trendy ve foto a elektro katalýze</b>                 |  |
| <i>Project title:</i> <b>10<sup>th</sup> bilateral Czech-Austrian scientific workshop: New trends in photo and electro catalysis</b> |  |
| <b>Řešitel projektu v ČR:</b><br><b>Prof. Dr. Ing. Josef Krýsa</b>   | <b>Řešitel v partnerské zemi:</b><br><b>Assoc. Prof. Dr. Guenter Fafilek</b> |

### **Dosažené výsledky – plnění cílů projektu (the project results):**

The 10<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 University of Chemistry and Technology, Prague and Vienna University of Technology.

The Workshop program was finalized before the start of the workshop in cooperation with partner institution in Austria (**enclosed as Annex I**). **Workshop was held 3 days from 8<sup>th</sup> December – 10<sup>th</sup> December 2021 in Hnanice (Czech Republic). The planned number of participants from Austria was 11 and from Czech Republic 28. Finally, due to the Covid-19 pandemic and the measures, there were less attendees of the workshop than planned regarding the project proposal– 3 AT and 27 CZ.** The others listed in the Annex I were participating on-line or they paid the full cost as they were from other countries, their attendance was not covered by the AKTION programme.

The topic of the workshop 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 UCT Prague in 2021.

It is possible to say that similarly as previously workshop also the 10<sup>th</sup> workshop represented all positive aspects of a small specialised international conference. Participants were from **six Czech institutions**: University of Chemistry and Technology, Prague, Jaroslav Heyrovsky Institute of Physical Chemistry, ASCR, Faculty of Chemical Technology, Technical University Brno, University of Pardubice, Institute of Physics AS CR, Technical University Ostrava and from two Austrian institutions: Vienna University of Technology and Paris Lodron University of Salzburg. Beside mentioned institutions, there were 2 participants from Slovak University of Technology in Bratislava and 2 participants from Slovenia National Institute of Chemistry.

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 10<sup>th</sup> Czech-Austrian workshop. The template (1 page abstracts) of Proceedings contributions was created and together with the preliminary Workshop program was sent to all the participants in September 2021. Participants were asked to send their contributions in November 2021. Finally, 25 contributions of presenting authors to Proceedings were received. First of all, submitted abstracts of presentations were edited from scientific point of view, than the language of all the abstracts has been checked. Editor of Proceedings was. The final correction of the proceedings was done jointly by Workshop chairman (Josef Krýsa) and by Austrian partner (Guenter Fafílek).

The workshop Proceedings with ISBN 978-80-7592-106-2 was published and distributed in December 2021 to all participants at the registration desk on 8<sup>th</sup> December 2021 (Annex II). To those who attended the workshop on-line the proceedings was sent by an e-mail in pdf form the printed version was sent by a regular post after the workshop.

### **Financial requirements in the Czech Republic- 2021**

The number of participants of the 10<sup>th</sup> workshop was finally due to the COVID-19 measures only 30 which were funded by Aktion programme. The others listed in the Annex I were participating on-line or they were not from Czech republic or Austria and thus they were not calculated below.

In the framework of the project, costs were requested for students (MSc. and PhD.) and also for academic teachers and young researchers with a PhD. On the Austrian side costs for 1 student and 2 academic teachers and young researchers are requested. On the Czech side costs for 9 students, 18 academic teachers and researchers were calculated. In total it is requested the costs for 3 Austrian participants and 27 Czech participants.

### **Cost connected with the holding of the 10<sup>th</sup> workshop in 2021**

#### **i) Accommodation for 30 participants:**

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|---|-------------------|
| 2 nights academic (20 researchers) – 1.500 CZK /day | 60.000 CZK        |
| 2 nights student (10 students) - 700 CZK/day        | 14.000 CZK        |
| <b>Total accommodation cost</b>                     | <b>74.000 CZK</b> |

#### **ii) Subsistence allowance:**

|   |            |
|---|------------|
| Austrian participants – 1 student, 3 days, 400 CZK /day                         | 1.200 CZK  |
| 2 teachers and researchers, 3 days, 600 CZK /day                                | 3.600 CZK  |
| Czech participants –16 students and teachers (UCT Prague), 3 days, 209 CZK /day | 10.033 CZK |
| 11 academic participants from Czech Republic, 3 days, 400 CZK /day              | 13.200 CZK |

**Total subsistence cost: 28.033 CZK**

#### **iii) Fare of Czech participants**

Travel expenses of the chairman of the conference to the partner institution in Austria. The purpose was to discuss the attendance of the Workshop from both countries, to discuss in detail the topics covered by the Workshop, prepare the Mailing list of participants to be addressed and prepare the 1<sup>st</sup> circular of the Workshop 4.000 CZK

Transportation to the Workshop. Because of the complicated (rare connection by public transport) access to the place where the Workshop was planned, the cost of transport of participants by 4 cars was requested. Estimation of the costs for 1 car was 2500 CZK.

Cost of transport by 4 cars..... 10.000 CZK  
**Total travel cost:** 14.000 CZK

iv) rent of the conference room – 2500 CZK /day – in total  
**Total other cost** 7.500 CZK

v) Publication cost (Book of abstract including final program),  
Editorial and language corrections 9.962 CZK

**Total cost (2021) = 74.000 + 28.033 +14.000+ 7.500 +9.962 = 133.495 CZK**

### Annex III. Statement of account\_2021

#### Refund

As the total cost of the project in 2021 are 133.495 CZK , the amount approved to this project by the Aktion programme committee and given in the decision on results Nr. D\_A 02/21 was 161.660 CZK, the total refund amount is then 28.165 CZK.

Total refund 2021 .....**28.165 CZK**

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| <b>V Praze</b><br><b>dne: 15.01. 2022</b> | <b>Jméno a podpis řešitele projektu:</b><br><br>Prof. Dr. Ing. Josef Krýsa<br><b>Telefon: 220444112 (4009)</b> | <b>Jméno a podpis statutárního zástupce organizace:</b><br><br><b>Telefon:</b> |
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List of annexes:

Annex I: Workshop program and list of participants

Annex II: Proceedings of the 10<sup>th</sup> Czech-Austrian workshop

Annex III: Statement of account 2021