

WEEM2015: <http://www.tu-ilmenau.de/weem2015/>

Dear Organizers,

Hereby I would like to express my intent to participate at the WEEM 2015 conference. Please find the requested information below, and the resume attached.

preferred form of the presentation: poster

authors: Dorottya Hursán*, Csaba Visy, Csaba Janáky

title of the presentation: Synthesis and characterization of novel N-containing conducting polymers for CO₂ reduction

status of the presentig author: Ms.

complete adress for the correspondence:

MTA-SZTE „Lendület” Photoelectrochemistry Research Group, Rerrich Square 1, 6720, Szeged, Hungary

e-mail: dorottya.hursan@gmail.com

preferable accomodation: double room

Best Regards,

Dorottya Hursán

Dear Colleague,

I am glad to confirm the receipt of your pre-registration form and the resume.

With my best wishes,
Mikhail Vorotyntsev

Dear Colleagues:

The Local Organizing Committee needs to make urgently the definitive room reservations at the conference center. Besides, you may need transportation information to plan your itinerary. Some participants might need a formal invitation letter for the visa application.

Therefore, I ask you to send me back your reply within the next few days.

First, if you confirm your participation in WEEM-2015 please look through the information in the attached file and return it to me after filling in the forms (preferably with changing its file name).

Otherwise, if you decided to cancel your participation please send me this information via email.

Looking forward to hearing from you at your earliest convenience.

With my best wishes,

Prof. Andreas Bund

Chairman of the Local Organizing Committee

Dear Organizers,

I would like to confirm my participation in WEEM-2015. Please find the necessary document about the accomodation attached.

Best regards:
Dorottya Hursán

Resume:

I am currently pursuing my Masters Degree in Chemistry at the University of Szeged, Hungary. The topic of my research work (and thus the basis of my presentation) is the preparation and characterization of novel N-containing conducting polymers, to be employed in the (photo)electrochemical reduction of CO₂.

First, we synthesized various N-containing monomers, all of them having a substituted aniline unit. The side group was always a pyridine unit in different chemical surrounding. Subsequently, electrochemical polymerization of these new monomer were performed. As a next step, we carried out CO₂ adsorption studies on different polymers by quartz crystal microbalance and IR spectroscopy. By these studies we gained information about the CO₂ adsorption mechanism of N-containing conducting polymers. Finally, electrochemical and photoelectrochemical measurements were performed to investigate the interaction of these electrode with CO₂.

Based on the results of our parallel electrochemical and adsorption studies performed on the conducting polymers we could establish a relation between the structure of the polymers and the (photo)electrochemical CO₂ reduction activity.