



**POLSKIE  
TOWARZYSTWO  
WĘGLOWE**



**Scientific program  
II Polish Carbon Society Scientific Workshop  
"New trends in carbon research"  
Poznan University of Technology  
September 27<sup>th</sup> 2019**

**Place: Centrum Wykładowe i Biblioteka Techniczna, ul. Piotrowo 2, room 123 BT (1<sup>st</sup> floor)**

- 9.00-9.10 Welcome
- 9.10-9.40 **Adam MOYSEOWICZ**, Krzysztof PAJAŁK, Tomasz ZIELIŃSKI, Grażyna GRYGLEWICZ  
***Influence of the hydrothermal synthesis parameters of polypyrrole/reduced graphene oxide composites on their porous structure and electrochemical properties***  
Department of Polymer and Carbonaceous Materials, Faculty of Chemistry, Wrocław University of Science and Technology, ul. Gdańska 7/9, 50-344 Wrocław, Poland
- 9.40-10.10 **Małgorzata SKORUPSKA**, Anna ILNICKA, Piotr KAMEDULSKI, Jerzy P. ŁUKASZEWICZ  
***The research of electrochemical properties of exfoliated graphene doped with nitrogen and phosphor***  
Faculty of Chemistry, Nicolaus Copernicus University, ul. Gagarina 7, 87-100 Toruń, Poland
- 10.10-10.40 **Mirosława PAWLYTA**  
***Research techniques of carbon materials characterisation***  
Silesian University of Technology, Institute of Engineering Materials and Biomaterials, ul. Konarskiego 18A, 44-100 Gliwice, Poland
- 10.40-11.00 Coffee break
- 11.00-11.30 **Jakub STEC**<sup>1</sup>, Janusz TOMALA<sup>2</sup>, Robert FILIPEK<sup>1</sup>  
***Investigations of micropore carbon materials pore structure and permeability using X-ray computed tomography and numerical modeling***  
<sup>1</sup>Faculty of Materials Science and Ceramics, AGH University of Science and Technology, Al. Mickiewicza 30, 30-059 Kraków, Poland  
<sup>2</sup>Tokai Carbon COBEX, ul. Piastowska 29, 47-400 Racibórz, Poland
- 11.30-12.00 **Xuexue PAN**, Agnieszka CHOJNACKA, Paweł JEŻOWSKI, François BÉGUIN  
***Na<sub>2</sub>S sacrificial material mixed with various types of nanoporous carbons as positive electrode for high performance Na-ion capacitors***  
Poznan University of Technology, Institute of Chemistry and Technical Electrochemistry, ul. Berdychowo 4, 60-965 Poznań, Poland
- 12.00-13.00 Lunch



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13.30-14.00 **Andrzej S. SWINAREW<sup>1,4</sup>**, Klaudia KUBIK<sup>1</sup>, Jadwiga GABOR<sup>1</sup>, Jarosław PALUCH<sup>2</sup>, Magdalena POPCZYK<sup>1</sup>, Beata SWINAREW<sup>3</sup>, Arkadiusz STANULA<sup>4</sup>, Hubert OKŁA<sup>1</sup>, Barbara LISZKA<sup>5</sup>, Anna KWAŚNIEWSKA<sup>6</sup>, Szymon Skoczyński<sup>7</sup>, Anna BIELICKA<sup>6</sup>

***Porous carbon materials based on polyurethanes for applications in medical diagnostics***

<sup>1</sup> Department of Biomaterials, Institute of Materials Science, Faculty of Computer Science and Materials Science, University of Silesia in Katowice, Poland

<sup>2</sup> Department of Laryngology, School of Medicine in Katowice, Medical University of Silesia in Katowice, Poland

<sup>3</sup> Institute for Engineering of Polymer Materials & Dyes, Paint & Plastics Department; Gliwice, Poland

<sup>4</sup> Department of Swimming and Water Rescue, Institute of Sport Science, The Jerzy Kukuczka Academy of Physical Education, Katowice, Poland

<sup>5</sup> Inter-faculty Laboratory of Structural Research, University of Silesia in Katowice, Poland;

<sup>6</sup> Radiology Department, Andrzej Mielęcki Independent Public Clinical Hospital of Medical University of Silesia, Katowice, Poland

<sup>7</sup> Department of Pneumonology, School of Medicine in Katowice, Medical University of Silesia, Katowice, Poland

14.00-14.30 **Przemysław GALEK**, Elżbieta FRĄCKOWIAK, Krzysztof FIC

***Electrochemical capacitors – mutual interactions of rheology and electrochemistry***

Poznan University of Technology, Institute of Chemistry and Technical Electrochemistry, ul. Berdychowo 4, 60-965 Poznań, Poland

14.30-15.00 **Małgorzata GRAŚ<sup>1</sup>**, Jarosław WOJCIECHOWSKI<sup>1</sup>, Łukasz KOLANOWSKI<sup>1</sup>, Katarzyna LOTA<sup>2</sup>, Grzegorz LOTA<sup>1,2</sup>

***Carbon-supported AB<sub>5</sub>-type Hydrogen Storage Alloy for DBFC application***

<sup>1</sup>Poznan University of Technology, Institute of Chemistry and Technical Electrochemistry, ul. Berdychowo 4, 60-965 Poznań, Poland

<sup>2</sup>Lukasiewicz Research Network -Institute of Non-ferrous Metals Division in Poznan Central Laboratory of Batteries and Cells, ul. Forteczna 12, 61-362 Poznań, Poland

15.00-15.10 Concluding remarks

15.10-15.40 Power Sources Group - laboratory tour

**Local Organizing Committee**

**Chair Person:** Professor Elżbieta Frąckowiak

**PhD students:** Paulina Bujewska

Justyna Piwek