

Conference Programme

Tuesday, 23 June 2026

09:00–17:00 — Workshops for Young Scientists

17:00–18:00 — Registration

18:00–21:00 — Culture and Science

Wednesday, 24 June 2026

08:00–09:00 — Registration

09:00–09:20 — Opening Ceremony

Session 1

Chair: Prof. Stanisław Błazewicz

09:20–10:10 — Gerard L. Vignoles

LCTS, University of Bordeaux, France

A multiscale investigation of the thermomechanical properties of carbon/carbon composites

Invited Lecture

10:10–10:30 — Maciej Gubernat

AGH University of Krakow, Poland

Design and Processing Effects on Degradation Mechanisms of Carbon–Carbon Rocket Nozzles under Operational Conditions

10:30–10:50 — Muhammad Shabbir

University of Silesia in Katowice, Poland

The mechanism of Ca-supported graphitization of banana biomass

10:50–11:10 — Van Hieu Ngo

University of Strasbourg, France

Structural Evolution of Carbon Catalyst for Autocatalytic Methane Decomposition under Induction Heating

11:10–11:40 — Coffee Break

Session 2

Chair: prof. Anna Boczkowska

11:40–12:10 — Aleksandra Benko

AGH University of Krakow, Poland

Cytocompatible carbon nanotube nanocomposites for in vitro cell cultures

Keynote Lecture

12:10–12:30 — Ryszard Wielowski

AGH University of Krakow, Poland

Functionalised CNT-modified pyrocarbon composite electrodes: multifunctional performance under simulated conditions for deep brain stimulation application

12:30–12:50 — Agata Czuk

AGH University of Kraków, Poland

Comparison of Pyrolytic Carbon Oxidation Techniques for Their Effect on the Electrochemical and Biological Properties of CF/PyC Composites Designed for Neural Cell Stimulation

12:50–13:20 — Industry and Science

Panel discussion

13:20–14:10 — Lunch

Session 3

Chair: prof. Francois Beguin

14:10–15:00 — Emmanuel Flahaut

CIRIMAT UMR 5085, CNRS, Université de Toulouse, France

Safety issues of Carbon Nanomaterials: a focus on Graphene Oxide and a Safer-by-design strategy to mitigate its potential impact on Health and the Environment

Invited Lecture

15:00–15:20 — Sławomir Boncel

Silesian University of Technology, Poland

From 0D to 3D carbon nanomaterials: ecotoxicity across aquatic trophic levels

15:20–15:40 — Quick poster presentations

Irina Ceban — *Institute of Chemistry of Moldova State University, Republic of Moldova*
Synthesis and structural characterization of TiO₂-modified nanostructured activated carbons derived from agricultural wastes

Magdalena Małecka — *Silesian University of Technology, Poland*

Application of Nanotechnology in Building Preservation: Innovative Nanocarbon-Enhanced Coatings

Ryszard Siedlecki — *University of Silesia, Poland*

Mechanochemical modification of single-walled carbon nanotubes

Karolina Kordek-Khalil — *Wrocław University of Science and Technology, Poland*

Carbon nanostructures growth on waste mineral powder grains for preparation of functional concrete

Łukasz Czapura — *Silesian University of Technology, Poland*

Targeted isolation and modification of single-walled carbon nanotubes

15:40–17:40 — Poster session

17:40–21:00 — Spirala

Thursday, 25 June 2026

Session 4

Chair: prof. Paweł Szroeder

09:00–09:50 — Elżbieta Frąckowiak

Poznan University of Technology, Poland

Carbon materials for energy storage systems working in aqueous and organic medium

Invited Lecture

09:50–10:10 — Bastien Raschetti

Poznan University of Technology, Poland

Uncovering the Charge Storage Mechanism of Carbon Electrode in Sodium-Ion Capacitors via Operando Techniques

10:10–10:30 — Akshita Singh

Université de Strasbourg / IIT Roorkee, France / India

Waste valorization for synthesizing carbon/graphene composites for supercapacitors

10:30–10:50 — Amelia Klimek

Poznan University of Technology / IS2M, Poland / France

Effect of N-Carbon Quantum Dots on Charge Storage in Electrochemical Capacitors

10:50–11:20 — Coffee Break

Session 5

Chair: prof. Grażyna Gryglewicz

11:20–12.10 — Rosa Menéndez López

Instituto de Ciencia y Tecnología del Carbono – CSIC, Oviedo, Spain

State of the art and future perspectives of traditional carbon materials and new carbon forms

Invited Lecture

12.10–12.30 — Daria Minta

Wrocław University of Science and Technology, Poland

Three-in-one, integrated, inkjet-printed electrode for electrochemical sensing applications

12.30–12.50 — Bartosz Gurzęda

Helmholtz-Zentrum Dresden-Rossendorf / Poznan University of Technology / Ume. University

Oscillating structural transformations in the electrochemical synthesis of graphene oxide from graphite

12:50–13.10 — Paulina Latko-Durątek

Warsaw University of Technology, Poland

Characterization of electrically conductive copolyester hot-melt adhesive containing carbon nanotubes and carbon black

13:10–14:00 — Lunch

14:00–14:30 — Bus transfer to Zabrze, Guido Mine

14:30–16:30 — Guido Mine visit

16:30–17:00 — Bus transfer to Gliwice city center

17:00–19:00 — Free time

19:00–22:00 — Conference gala (Hotel Royal, Gliwice, 10 Matejki Street)

Friday, 26 June 2026

Session 6

Chair: prof. Sławomir Boncel

09.00–09.30 — Narayan N. Som

Warsaw University of Technology, Poland

Atomistic Investigation of Nitrogen-Doped Carbon Nanotube Growth and Structural Evolution from Pyridine and Pyrazine Precursors

Keynote Lecture

09.30–09.50 — Zunaira Amjad

Silesian University of Technology, Poland

An overview of “Not-to-nanotube-itself” functionalization strategies

09.50–10.10 — Szymon Ruczka

Silesian University of Technology, Poland

Differences in Morphology of Carbon Nanotubes for Tribological Application

10.10-10.30 — Jakub Ćwiertnia

Silesian University of Technology, Poland

Relation between partitioning process of single-walled carbon nanotubes and hydrophobic/hydrophilic interactions in aqueous two-phase systems

10:30–11:00 — Coffee Break

Session 7

Chair: prof. Aneta Frączek-Szczypta

11:00–11:30 — Marcel Zambrzycki

AGH University of Krakow, Poland

Carbon nanofiber nonwoven as potential back electrode contact for perovskite solar cells: Effect of heat treatment temperature on structure and electrical conductivity

Keynote Lecture

11:30–11:50 — Barbara Szczeńiak

Military University of Technology, Warsaw, Poland

Adsorption of Volatile Organic Compounds on Graphene-Containing Carbons

11:50–12:10 — Beatriz Italia De La Toba Acevedo

Wroclaw University of Science and Technology, Poland

The Influence of Iron Nanoparticles Distribution on The Magnetic Properties of Carbonaceous Adsorbents Obtained from Mixtures of Different Iron Salts and Polymers

12:10–12:30 — Lidia Mosińska

Kazimierz Wielki University in Bydgoszcz, Poland

The influence of diamond doping and nanomodification on the sensory properties of electrodes

12:30–12:50 — Closing ceremony

12:50–14:00 — Lunch

Poster session

1. **Muhammad Ahsaan Bari** — UV light-controlled Graphene oxide modification using photoswitchable molecules
 2. **P. Ziółkowski** — Electrochemical deposition of poly[ethylene-dioxythiophene] (PEDOT) films on graphene nanoplatelet films
 3. **Patrycja Wąsik** — Characterisation of biochar after interaction with products of biomass thermochemical conversion
 4. **Anna Blacha** — Covalent Network Formation in Carbon Nanotubes Using S-Tetrazine Chemistry
 5. **Monika Tarnowska** — Fluorine-Modified Carbon Nanotubes for Superhydrophobic and Anti-Icing Coating Applications
 6. **Iolanta Balan** — DFT study of [AC-PAH] complex
 7. **Raisa Nastas** — TiO₂-carbon composites derived from peach stones activated carbons: synthesis, characterization and application
 8. **Rupinder Kaur** — 'Nanotubium-Nanotubate': From Van der Waals bundles to 'lo-NanoHybrids'
 9. **Paweł Szroeder** — Direct electron transfer between sp²-bonded carbons and adsorbed aromatic molecules
 10. **Paweł Binkowski** — Sponge carbon electrode - the impact of the carbonisation process
 11. **Paweł Kubica-Cypek** — Backbone Engineering and Post-Synthetic Modulation of Fluorene-Based Copolymers for Monochiral SWCNT Isolation
 12. **Cosmos Uzoma** — Tuning Fluorene-Based Polymers for Chirality-Selective Extraction of Large-Diameter SWCNTs
 13. **Beatriz Italia De La Toba Acevedo** — Iron Nanoparticle-Functionalized Magnetic Biochar for Isoproturon and Cr(VI) Adsorption Kinetics
 14. **Adam Moyseowicz** — Influence of Nitrogen Sources on N-Doped Reduced Graphene Oxide Aerogels for Efficient Neutral Aqueous Symmetric Supercapacitors
 15. **N. Mazurczak** — Balancing Sun Protection and Environmental Safety: A Carbon-Based Approach to UV Filter Removal
 16. **Adam Zabrowarny** — 3D-printing wastes derived TPU/GO membranes: toward compact real-time water quality monitoring devices
 17. **Jarosław Kałużny** — Metal-Functionalized CNTs for Enhanced Lithium Grease Lubricity
 18. **P. Adamczyk** — Synthesis and Physicochemical Properties of Biochar@Graphene Oxide Carbon Composites
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