Oral Program of The First AACG Carbon Symposium

June 26, 2025 Thursday		
9:00 - 9:15	Opening Session	
9:15 - 9:45	Keynote: Graphene Oxide: From Fabrication to Applications	
	Hui-Ming Cheng, Shenzhen Institute of Advanced Technology, China	
9:45 - 10:05	Advances in Carbon-Based Cathodes for High-Performance Li-O ₂ Batteries	
	Hirotomo Nishihara, Tohoku University, Japan	
10:05 - 10:25	From Graphite to Graphene-Production and Application	
	Feiyu Kang, Tsinghua Shenzhen International Graduate School, China	
10:25 - 10:55	Coffee Break	
10:55 - 11:25	Keynote: New Approaches to Control Porosity and Surface Property of Porous Carbons	
	Jin Miyawaki, Kyushu University, Japan	
11:25 - 11:45	Converting CO ₂ and Biomass Wastes into Carbon Materials and Applications in Electric Double-Layer	
	Capacitors (EDLC)	
	Jarrn-Horng Lin, National University of Tainan, Taiwan	
11:45 - 12:05	Design and Transport Properties of Novel Field-Effect Transistors Based On Carbon Nanomaterials	
	Dong-Ming Sun, Shenyang National Laboratory for Materials Science, China	
12:05 - 12:25	The irradiation damage of graphite	
	Ke Shen, Hunan University, China	
12:25 - 14:00	Lunch	
14:00 - 14:30	Keynote: Carbon Nanotubes as Superior Conductive Additives:	
	Enhancing Performance of Lithium Ion Batteries	
	Yoong Ahm Kim, Chonnam National University, Republic of Korea	
14:30 - 14:50	Single-Wall Carbon Nanotube Films and Their Hybrids	
	Chang Liu, Institute of Metal Research, China	
14:50 - 15:10	Carbon-Based Anodes for Na-Ion Batteries: A Comparative Study of Electrochemical Performance and	
	Enhanced Ion Storage	
	Gamzenur Ozsin, Bilecik Şeyh Edebali University, Türkiye	
15:10 - 15:30	Probing the Interfaces Between 2D Materials and Liquid Metals	
	Yu Lei, Tsinghua Shenzhen International Graduate School, China	
15:30 - 16:00	Coffee Break	
16:00 - 17:30	Poster Session	

June 27, 2025 Friday	
9:00 - 9:30	Keynote: Carbon Aerogels: Revolutionizing Material Science
	Can Erkey, Koç University, Türkiye
9:30 - 9:50	Sonicated carbon nanotube catalysts for efficient point-of-use water treatment
	Xin Yang, The University of Sydney, Australia
9:50 - 10:10	Harnessing Graphene's Potential for Polymer Electrolyte Membrane Fuel Cells:
	Challenges and Future Horizons
	Selmiye Alkan Gürsel, Sabancı University, Türkiye
10:10 - 10:30	Photocatalytic Estrogen Degradation by the Composite of Tin Oxide Fine Particle and Graphene-Like
	Carbon Nitride
	Shinji Kawasaki, Nagoya Institute of Technology, Japan
10:30 - 11:00	Coffee Break
11:00 - 11:30	Keynote: Sustainable Carbon Materials for Catalytic Applications
	Yuan Chen, The University of Sydney, Australia
11:30 - 11:50	Synthesis of Graphite Aggregates in Nonequilibrium Methane Plasma
	İbrahim Burak Şen, Middle East Technical University, Türkiye
11:50 - 12:10	Closing Remarks
12:10 - 13:10	Lunch

Poster List of the First AACG Carbon Symposium

	Chaehun Lim
	Chungnam National University, Republic of Korea
P1	High performance LIB anode from NF₃ plasma treated needle cokes
	Seongjae Myeong
	Chungnam National University, Republic of Korea
	Capacitive deionization performance of N/F doped hierarchical porous carbons prepared by spontaneous silica
P2	etching
	Xiazhe Zhai
	Kyushu University, Japan
P3	Improvement of Strength of Activated Coke by Oxidative Stabilization
	Xiazhe Zhai
	Kyushu University, Japan
	Production of High-Strength Porous Carbon Pellet without Activation Utilizing Dual Function of Marine Biomass
P4	Components
	Shiyou Zheng
	University of Shanghai for Science and Technology, China
P5	Spatial confinement for constructing high performance carbon/sulfur composite electrode materials
	Shu-Huei Hsieh
	National Formosa University, Taiwan
	Effect of Carbon Cloth Composite Insertion on Lead-Acid Batteries: Characterization and High-Rate Cycling
P6	Performance
	Jiaxiang Chen
	The University of Sydney, Australia
	Carbon Nanotube-Supported ZnPc Electrocatalysts for Selective Furfural Reduction: A Promising Strategy for
P7	Sustainable Biomass Conversion
	Justin Prabowo
	The University of Sydney, Australia
P8	Dual-functional graphitic carbon materials from methane pyrolysis for lithium-ion batteries
	Hüseyin Öztürk
	Middle East Technical University, Türkiye
	Design of a 2-D Plasma Reactor for Carbon Production through Methane Pyrolysis
P9	

	Mert Ada Kayışlı
	Istanbul Technical University, Türkiye
	Development And Characterization Of Tin Oxide-Reduced Graphene Oxide Composite As A High-Performance
P10	Anode Material For Lithium-Ion Batteries
	Hossein Mahdavi
	Koç University, Türkiye
	Graphene Oxide Reduction via Pulsed Laser and High-Energy Ball Milling with NiCoFeMoW High-Entropy Alloy for
P11	Superior Electrocatalytic Oxygen Evolution Reaction
	Züleyha Kudaş
	Sabancı University, Türkiye
P12	Electrochemical Applications of Hybrid Organic Supercapacitors Based on Perilen Monoimide Diester Homodimer
	Pınar Acar Bozkurt
	Ankara University, Türkiye
P13	Development of Carbon-Based Materials from Lignocellulosic Biomass using Thermal Conversion Method
	Zeynep Bilge Elçi
	Ankara University, Türkiye
P14	Green hydrothermal synthesis of carbon dots from nettle (Urtica dioica) leaf
	Agah Yıldız
	Eskişehir Technical University, Türkiye
P15	Hydrogen storage performance of activated and non-activated hydrochar
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P15 P16 P17 P18	Hydrogen storage performance of activated and non-activated hydrochar Agah Yıldız Eskişehir Technical University, Türkiye Preparation and hydrogen adsorption performance of metal and boron doped biochar Ala Alsuhile Koç University, Türkiye Biopolymer Based Carbon Aerogel Supported Pt Electrocatalysts Via Supercritical Deposition for Hydrogen Evolution Reaction Ayça Şevval Akalın Eskişehir Technical University, Türkiye Microwave-Assisted Production of Nano Biocarbon from Beechwood Sawdust
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	Yasemin Çelik
	Eskişehir Technical University, Türkiye
	A Comparative Analysis of Microstructural Evolution and Mechanical Properties of Al2O3 Composites Reinforced
P20	with Multilayer Graphene and Boron Nitride Nanosheets
	Büşra Çetiner
	Sabancı University, Türkiye
	Innovative Deposition Strategies for Carbon-Supported Pt Catalysts in Electrochemical Hydrodeoxygenation of
P21	Biomass-Derived Oxygenate
	Rafał J. Wróbel
P22	West Pomeranian University of Technology in Szczecin, Poland
	Ultrapure activated carbons made from furfuryl alcohol for CO ₂ and C ₂ H ₄ sorption applications