



Association „Bulgarian Catalysis Society”

CONFERENCE PROGRAM

Tuesday, 15th November 2022

09:00–10:00 **Registration**

Hall 225, at the Institute of Catalysis, Bulgarian Academy of Sciences, block 11, 2nd floor		
10:00–10:10	Opening ceremony	A. Eliyas <i>President of Association „Bulgarian Catalysis Society”</i>
10:10–13:00	Session 1 <i>Chair: Silvia Todorova</i>	
10:10–10:40	Hundredth anniversary of birth: a tribute to Academician Dimitar Shopov	L. Petrov <i>Founder of Association „Bulgarian Catalysis Society”</i>
10:40–11:20	Invited lecture: Vacuum residue ebullated bed hydrocracking application in LUKOIL Neftohim Burgas refinery. Issues, Challenges, Solutions. Summary of seven years experience	Dicho Stratiev , Ivelina Shishkova <i>LUKOIL Neftohim Burgas</i>
11:20–11:40	Coffee break	
11:40–12:10	O1: Non-Noble HOR Catalyst for GenCell’s Alkaline Fuel Cell prototype	Dimitrinka Nikolova , Yair H. Wijsboom, Margarita Gabrovska, Omri Halfon, Nino Borchtchoukova, Gennadi Finkelshtain <i>Institute of Catalysis-BAS</i>
12:10–12:40	Company presentation: Metrohm – instruments for electrochemical research	Alexandar Kirilov <i>Metrom Bulgaria EOOD</i>
12:40–13:00	O2: Synthesis of silver co-catalytic modified TiO ₂ thin films using three different sol-gel methods for photocatalytic applications	Nina Kaneva , Bozhidar Stefanov <i>Faculty of Chemistry - University of Sofia</i>
13:00–14:00	Lunch break	
14:00–16:40	Session 2 <i>Chair: Hristo Kolev</i>	
14:00–14:30	O3: Enhanced Fenton-like catalytic activation of peroxydisulfate over macroporous LaFeO ₃ for water remediation	M. Tsvetkov , S. Koleva, E. Encheva, M. Milanova <i>Faculty of Chemistry and Pharmacy - University of Sofia</i>
14:30–14:50	Company presentation: Agilent portfolio in Atomic and Molecular spectroscopy	Konstantin Doktorov <i>T.E.A.M. Ltd</i>
14:50–15:20	O4: Sustainable and eco-friendly recycling and reuse of spent automotive catalysts	Z. Cherkezova-Zhelevaa , D. Panevaa, Iakovos Yakoumisb, Maria Luisa Grillic, Konstantinos Sakkas <i>Institute of Catalysis-BAS</i>

17-th National Conference on Catalysis
 10-th Scientific Research Session for students, PhD-students and young researchers
 15-16 November 2022, Sofia, Bulgaria

15:20–15:40	Coffee break	
	<i>Chair: Margarita Gabrovska</i>	
15:40–16:00	O5: Mixed oxides of cerium and manganese as catalysts for total oxidation of ethyl acetate: Effect of preparation procedure	Gloria Issaa , Momtchil Dimitrov, Martin Kormunda, Daniela Kovacheva, Tanya Tsoncheva <i>Institute of Organic Chemistry with Centre of Phytochemistry-BAS</i>
16:00–16:20	Company presentation: Chromatography applications of Agilent in the field of Catalysis	Georgi Valchanov <i>T.E.A.M. Ltd</i>
16:20–16:40	O6: UiO-66 active sites: modification and in-situ IR tracing	Vera V. Butova , Videlina R. Zdravkova, Olga A. Burachevskaia, Konstantin I. Hadjiivanov <i>Institute of General and Inorganic Chemistry-BAS</i>

16:45–18:15	Poster session at Institute of General and Inorganic Chemistry, Bulgarian Academy of Sciences, block 11, 3rd floor height/width poster boards = 150/100 cm
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18:30 **Cocktail at SkyCity Mall**
MyChoice restaurant - MegaXtreme Bowling Bar&Dinner

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10:00–12:20	<i>Session 3</i> <i>Chair: Zara Cherkezova-Zhelevaa</i>	
10:00–10:30	Invited lecture: Catalytic neutralization of waste gases – from laboratory tests to scale up of industrial reactors	Anton Naydenov <i>Institute of General and Inorganic Chemistry-BAS</i>
10:30–11:00	Company presentation: XRDynamic 500: Optimized high resolution XRD for catalysts studies	Vladimir Parashikov <i>Prolab Instruments EOOD</i>
11:00–11:20	Coffee break	
11:20–12:00	O7: Heterogeneous catalysts for the production of fuels and environmental protection	R. Palchevaa , L. Kaluza <i>Institute of Catalysis-BAS</i>
12:00–12:20	O8: Defect Formation and T-Atom Substitution in MSE-Type Zeolite Framework—DFT Modeling	Petko Petkov , Iskara Koleva, Hristiyan Aleksandrov, Kristina Simeonova, Georgi Vayssilov <i>Faculty of Chemistry and Pharmacy, University of Sofia</i>
12:20–13:00	Lunch break	
13:00–13:45	YOUNG SCIENTISTS session <i>Chair: Yordanka Karakirova</i>	

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13:00–13:15	O1: Synthesis, characterization and application of cobalt-manganese catalysts supported on clinoptilolite in the reaction of complete oxidation of n-hexane	<u>I. Yordanova</u> , Hr. Kolev, K. Tenchev, S. Todorova <i>Institute of Catalysis-BAS</i>
13:15–13:30	O2: Metals doped g-C ₃ N ₄ as efficient heterogeneous catalyst for degradation of organic dyes with peroxymonosulfate at ambient conditions	<u>V.V.Ivanova-Kolcheva</u> , M. K. Stoyanova <i>University of Plovdiv</i>
13:30–13:45	O3: Cobalt catalysts supported on zsm-5 and sba-15 for hydrocarbon complete oxidation	<u>B. Grahovski</u> , R. Velinova, An. Naydenov, H. Kolev, J-L Blin, B. Lebeau, S. Todorova <i>Institute of Catalysis-BAS</i>

14:00–14:20 **Awarding ceremony**

The best oral presentation of young scientist

The best poster preparation of young scientist

14:20–14.30 **Closing ceremony**

D. Nikolova, Organizing committee