

Schedule

Thursday, 26th September 2019

Hall 3 foyer

08:30–17:30 **Registration and information:** Company for International Meetings

Hall 4

09:00–09:15 **Opening session:** Organizing Committee (V. Beschkov)

09:15–10:00 PL1. Plenary lecture: C. Balarew

10:00–10:45 PL2. Plenary lecture: M. Bojinov

10:45–11:15 **Coffee break**

Session 1 Symposium 1: Physical chemistry and electrochemistry

11:15–12:15 Oral presentations (1-O1-O4)

Session 2 Symposium 6: Chemical engineering and environmental protection

12:15–13:15 Oral presentations (6-O1-O4)

13:15–14:15 **Lunch break**

Session 3 Symposium 8: Chemistry education

14:15–14:45 8-K1. Keynote lecture: A. Penkova

14:45–15:00 Oral presentation (8-O1)

15:00–15:30 **Coffee break**

Session 4 Poster presentations

15:30–17:30 1-P1-P10, 6-P1-P14, 8-P2

Hall 2

17:30–19:30 **Welcome reception at House of Science and Technology**

Friday, 27th September 2019

Hall 3 foyer

08:30–17:30 **Registration and information:** Company for International Meetings

Hall 4

09:00–09:45 PL3. Plenary lecture: Ch. Boyadjiev

09:45–10:30 PL4. Plenary lecture: V. Stefanova

10:30–11:00 **Coffee break**

Session 5 Symposium 4: Analytical chemistry

11:00–11:30 4-K1. Keynote lecture: V. I. Slaveykova

11:30–12:00 4-K2. Keynote lecture: S. D. Kolev

12:00–12:30 Oral presentations (4-O1-O2)

Session 6 Symposium 2: Organic chemistry and pharmacy

12:30–13:00 Oral presentations (2-O1-O2)

13:00–14:00 **Lunch break**

Session 7 Symposium 7: Biobased and synthetic polymers and bioproducts

14:00–14:15 Oral presentation (7-O1)

14:15–14:30 T.E.A.M. Ltd. presentation

14:30–14:45 AQUACHIM Ltd. presentation

14:45–15:00 Oral presentation (7-O4)

15:00–15:30 **Coffee break**

Session 8 Poster presentations

15:30–17:30 2-P1-P5, 3-P1, 4-P1-P11, 5-P1-P4, 7-P1-P9

Saturday, 28th September 2019

Hall 3 foyer

09:30–12:00 **Registration and information:** Company for International Meetings

Hall 4

10:00–10:45 PL5-Plenary lecture: N. Denkov

10:45–11:30 PL6-Plenary lecture: : M. Bogdanov

11:30–11:45 **Closing session:** Organizing Committee (V. Beschkov)

Programme

(as of 25th September 2019)

Thursday, 26th September 2019

Hall 3 foyer

08:30 17:30 **Registration and information** Company for International Meetings

Hall 4

09:00 9:15 **Opening session** V. Beschkov
Organizing Committee

09:15 10:00 PL1. Plenary lecture: The periodic table of chemical elements: history, nature, meaning C. Balarew

10:00 10:45 PL2. Plenary lecture: Modelling barrier film growth and nanopore initiation on valve metals based on EIS, XPS, and photocurrent data M. Bojinov, I. Betova,
V. Karastoyanov

10:45 11:15 **Coffee break**

Session 1 Symposium 1: Physical chemistry and electrochemistry

11:15 11:30 1-O1. Hybrid ion batteries: modelling of the ions competition for solvation H. Rasheev, R. Stoyanova,
A. Tadjer

11:30 11:45 1-O2. Growth and dissolution mechanism of anodic oxides on titanium alloy (Ti-15%Mo-3%Nb-3%Al) V. Karastoyanov, I. Betova,
M. Bojinov

11:45 12:00 1-O3. Boron doping as a strategy for the design of efficient organic solar cell materials J. Romanova

12:00 12:15 1-O4. The secret of the chemical elements and the periodic table P. Tsanchev

Session 2 Symposium 6: Chemical engineering and environmental protection

12:15 12:30 6-O1. Analysis of energy consumption in wastewater treatment plants R. K. Vladova,
N. G. Vaklieva-Bancheva

12:30 12:45 6-O2. Optimization of mucilage polysaccharide extraction from oilseeds and from their defatted press cakes I. Saykova, N. Stanikna,
K. Markova

12:45 13:00 6-O3. Application of simplified models for biochemical methane potential optimization procedure P. G. Velichkova,
T. V. Ivanov, I. G. Lalov

13:00 13:15 6-O4. Complex transformation of acid hydrolysates of primary and secondary biomass to bioenergy P. G. Velichkova,
T. V. Ivanov, I. G. Lalov

13:15 14:15 **Lunch break**

Session 3 Symposium 8: Chemistry education

14:15 14:45 8-K1. Keynote lecture: Chemistry education in Spain A. Penkova

14:45 15:00 8-O1. 'Green experiments' in the school laboratory A. Kamusheva, A. Gendjova,
M. Tavlinova-Kirilova

15:00 15:30 **Coffee break**

Session 4 Poster presentations

15:30 17:30 1-P1-P10, 6-P1-P14, 8-P2

Hall 2

17:30 19:30 **Welcome reception at House of Science and Technology**

Friday, 27th September 2019

Hall 3 foyer

08:30 17:30 **Registration and information** Company for International Meetings

Hall 4

09:00 09:45 PL3. Plenary lecture: Industrial reactions kinetics Ch. Boyadjiev
09:45 10:30 PL4. Plenary lecture: Single particle inductively coupled plasma mass spectrometry. A new dimension of elemental analysis for characterization of nanoparticles: challenges, perspectives and limitations V. Stefanova, L. Kaynarova, D. Georgieva, V. Kmetov

10:30 11:00 **Coffee break**

Session 5 Symposium 4: Analytical chemistry

11:00 11:30 4-K1. Keynote lecture: Metabolomics to uncover the contaminant-induced responses in aquatic microorganisms V. I. Slaveykova, W. Liu, N. Regier, S. Majumdar, A Keller
11:30 12:00 4-K2. Keynote lecture: Determination of arsenite and arsenate in water samples by hydride generation paper-based microfluidics M. Bonacci, M. I. G. S. Almeida, Y. Zhang, S. D. Kolev
12:00 12:15 4-O1. Benefits of magnetic nanoparticles supported hydride generation in MSIS-MP-AES V. Kmetov, M. Kiryakova, E. Varbanova, K. Simitchiev
12:15 12:30 4-O2. Development of immunochemical tests for rapid multiplex control of toxic contaminants in milk and dairy products S. A. Eremin, E. A. Zvereva, A. V. Zherdev, B. B. Dzantiev, Y. Ivanov, T. Godjevargova

Session 6 Symposium 2: Organic chemistry and pharmacy

12:30 12:45 2-O1. The abiogenic ion gallium and its mechanism of therapeutic action: insights from theoretical research N. Kircheva, T. Dudev
12:45 13:00 2-O2. Study of a multilipid bilayer with GPI-anchored folate receptor alpha N. Ivanova, G. Gocheva, S. Iliev, J. Petrova, G. Madjarova, A. Ivanova

13:00 14:00 **Lunch break**

Session 7 Symposium 7: Biobased and synthetic polymers and bioproducts

14:00 14:15 7-O1. Investigation on the barrier and antibacterial properties of packaging papers with blend fillers of chitosan and rice starch D. Todorova, U. Vrabčič Brodnjak
14:15 14:30 T.E.A.M. Ltd. presentation G. Valchanov

14:30	14:45	ZEISS research solutions in the Big Data Era: ZEN Connect – a holistic approach for advanced materials analysis	A. Tonchev
14:45	15:00	7-O4. Influence of press factor and additional thermal treatment on technology for production of eco-friendly MDF based on lignosulphonate adhesives	<u>V. Savoy</u> , I. Valchev, N. Yavorov, K. Sabev
15:00	15:30	Coffee break	
Session 8 Poster presentations			
15:30	17:30	2-P1-P5, 3-P1, 4-P1-P11, 5-P1-P4, 7-P1-P9	

Saturday, 28th September 2019

Hall 3 foyer

09:30	12:00	Registration and information	Company for International Meetings
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Hall 4

10:00	10:45	PL5. Plenary lecture: Self-shaping and self-fragmentation of droplets in cooled emulsions: a new approach for fabrication of micro- and nanoparticles of various shapes	<u>N. Denkov</u> , D. Cholakova, S. Tcholakova, S. K. Smoukov
10:45	11:30	PL6. Plenary lecture: Towards the reaction of homophthalic anhydride with carbonyl compounds. Unprecedented synthesis of novel compounds	M. Bogdanov
11:30	11:45	Closing session	V. Beschkov Organizing Committee