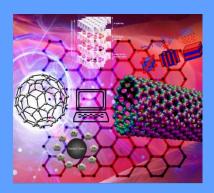
## **Institute of Chemical Engineering Bulgarian Academy of Sciences**

#### 2<sup>nd</sup> SEMINAR ON

# OPTIMIZATION OF NANOCOMPOSITES STRUCTURES



#### **PROGRAM**

2 APRIL, 2025 Conference hall, Hotel of BAS, 50 "Shipchenski prohod" blvd., 1113 Sofia

The Seminar is organized and hold with the financial support of Bulgarian National Science Fund, Contract № KП-06-H57/3/15.11.2021 under the project: "Optimal safety loads and geometry for layered nanocomposites under thermomechanical loading"



#### **PROGRAMME**

### OF 2<sup>nd</sup> SEMINAR ON INVESTIGATIONS, MODELING AND OPTIMIZATION OF NANOCOMPOSITES STRUCTURES (2<sup>nd</sup> SIMONS'25)

#### Wednesday, 2<sup>nd</sup> April, 2025, Conference hall, Hotel of BAS

08:45-09:15	Registration of participants	
09:15 - 09:30	Opening session – Prof. Dr. Tatyana Petrova	
Plenary lectures, Chairperson: Prof. Dr. Tatyana Petrova		
09:30 - 10:15	PL-01: SH wave scattering by a nanocrack in a graded piezoelectric half-plane with nanorelief	
	Prof. DSc Tsviatko Rangelov	
10:15 - 11:00	PL-02: Closed-form analysis of debonding initiation in	
	multi-layered systems	
	Prof. DrIng. Wilfried Becker	
11:00 - 11:30	COFFEE BREAK	
Key lectures, Chairperson: Assoc. Prof. Dr. Elisaveta Kirilova		
11:30 - 12:00	KL-01: Optimal safety intervals for geometry and loads in polymer nanocomposites by multi-parameter optimization	
	Prof. Dr. Tatyana Petrova	
12:00 - 12:30	KL-02: Producing and characterization of PtCoP alloy coatings on powdered carbon support	
	Assoc. Prof. Dr. Jenia Georgieva	
12:30 – 14:00	LUNCH TIME	

Key lectures, Chairperson: Assoc. Prof. Dr. Rayka Vladova	
14:00 – 14:30	KL-03: Low temperature synthesis of corundum ceramics and study of the effect of specially introduced nanoadditives  *PhD student Margarita Georgieva*
14:30 – 15:00	KL-04: Multi-parameter optimization of layered Ti <sub>3</sub> C <sub>2</sub> Mxene/PMMA nanocomposite under mechanical loading  MSc. Alexander Moravski
15:00 – 15:30	COFFEE BREAK
15:30 – 16:30	Poster session for young scientists, PhD and Postdoc students, Students and colleagues
16:30 – 17:00	Working meeting for the team members of project KΠ-06- H57/3/15.11.2021
17:00 – 18:00	Closing ceremony, refreshments & snacks