

Day 1, 23th Aban, 14th Nov. – Room A

8:00 – 9:00	Registration		
9:00-12:00	Opening Ceremony		
9:00 – 9:50	~5 min	Quran + Iran National Anthem	
	~5 min	Welcome Address of the Master of Ceremony	
	~10 min	Video Clip: University of Tehran	
	~10 min	Official Opening of UFGNSM2023 by the Conference Chair (Dr. Farzad Khodabakhshi)	
	~10 min	About the School of Metallurgy & Materials Engineering	
	~5 min	Prof. Veghar's Award Announcement (Dr. Mohammad Mokmeli)	
	~5 min	About Iran Nanotechnology Innovation Council (Prof. Seyed Mahdi Rezayat)	
9:50-10:20	General Speaker: Prof. Majid Nili-Ahmadabadi	UFGNSM1156: Artificial Intelligence in Materials Science: Opportunities and Challenges	Chair: Prof. Nili
10:20-10:50	Break		
10:50-11:20	General Speaker: Prof. Abbas Zarei Hanzaki	UFGNSM1147: Driving Innovation and Entrepreneurship by Universities	
11:20-12:00	Plenary Speaker: Prof. Ruslan Z. Valiev	UFGNSM1002: Nanostructured metallic materials from severe plastic deformation (SPD): Physical nature of superstrength and strengthening mechanisms	
12:00 – 13:30	Memorial Photo		
	Pray and Lunch		

Chair: Prof. Mahmudi and Prof. Ebrahimi		Severe Plastic Deformation (SPD) and Mechanical Alloying
13:30 – 14:00	Prof. Jürgen Eckert	UFGNSM1096: Overcoming the Trade-off between Strength and Ductility in High Entropy Alloys
14:00 – 14:30	Prof. Güney Güven Yapici	UFGNSM1101: Severe Plastic Deformation of Additive-Manufactured Alloys
14:30 – 14:50	Prof. Ramin Ebrahimi	UFGNSM1013: Double Twin Parallel Channel Angular Extrusion as a Development of the ECAP Process, a Step Towards Industrialization
14:50 – 15:20	Break	
Chair: Dr. Babaei and Dr. Sheibani		Nanomaterials For Energy and Environment
15:20 – 15:50	Dr. Mahdi Hamidinejad	UFGNSM1027: Manufacturing and Characterization of Multifunctional Nanocomposites and Nanoarchitectures
15:50 – 16:20	Dr. Morteza Masoudpanah	UFGNSM1006: Free-binder CoNiMn LDH/nickel foam electrodes for supercapacitor and water splitting applications
16:20 – 17:00	Poster Session	

Day 1, 23th Aban, 14th Nov. – Room B

Chair: Prof. Parsa and Dr. Mirzadeh		Severe Plastic Deformation (SPD) and Thermomechanical Processing
13:30 – 14:00	Dr. Reza Alizadeh	UFGNSM1052: Investigating the Interaction of Dislocations with Precipitates via Nano- and Micro-Mechanics
14:00 – 14:20	Mr. Muhammad Farhan Raza	UFGNSM1105: Implementation of Design of Experiments on Interlayer Friction Stir Spot Welding (IL-FSSW) for 304 Stainless Steel and 6061 Aluminum Alloy Joints
14:20 – 14:40	Mr. Serdar Mermer	UFGNSM1104: Effect of heat treatment on the high temperature tensile properties of Inconel 718 alloy manufactured via direct energy deposition
14:40 – 15:20	Break	
Chair: Prof. Hadian and Dr. Mirzadeh		High Entropy Alloys (HEAs)
15:20 – 15:40	Mr. Amin Radi	UFGNSM1103: Monotonic and Cyclic Mechanical Behavior of TRIP-assisted High Entropy Alloys
15:40 – 16:00	Ms. Canay Isil	UFGNSM1106: Damping Performance and Strain Rate Sensitivity of Multi-phase High Entropy Alloy
16:00 – 16:20	Mr. Farzad Firouzi	UFGNSM1039: Highly Selective Separation of Zn and Cd Utilizing the Superparamagnetic Nanoadsorbents Functionalized with D2EHPA and TBP Dual Extractants
16:20 – 17:00	Poster Session	

Day 2, 24th Aban, 15th Nov. – Room A

8:00 – 8:30	Registration	
8:30 – 9:10	Plenary speaker: Prof. Abbas Zarei Hanzaki	UFGNSM1146: Ultrafine Grained Materials and Sustainable Development
Chair: Prof. Saremi and Prof. Nili		Severe Plastic Deformation (SPD) and Mechanical Properties
9:10 – 9:40	Prof. Megumi Kawasaki	UFGNSM1108: Formation and recovery behavior of hetero-nanostructured metals processed by high-pressure torsion
9:40 – 10:10	Dr. Mohsen Akbari	UFGNSM1149: Empowering Health Equity through Biomedical Engineering: Innovations in Microfluidics and Bioprinting
10:10 – 10:30	Dr. Amin Meftahi	UFGNSM1098: Ag-treated Cotton Fabric: Antibacterial, Physical, Hydrophobicity, Steady-State Thermal and Mechanical Properties
10:30 – 11:10	Poster Session	
Chair: Dr. Mehdi Navaz Aghdam and Dr. Kharaziha		Biomaterials
11:10 – 11:40	Prof. Davide Barreca	UFGNSM1148: Recent progresses in the development of green electrocatalysts for sustainable energy production
11:40 – 12:10	Dr. Mahshid Kharaziha	UFGNSM1121: Immunomodulatory Nanocomposite Adhesives for Tissue Engineering and Drug Delivery
12:10 – 13:40	Pray and Lunch	
Chair: Dr. Mokmeli and Dr. Pishbin		Biomaterials
13:40 – 14:10	Dr. Fatemehsadat Pishbin	UFGNSM1081: Nanostructured composite biomaterials for cancer treatment and tissue engineering
14:10 – 14:40	Dr. Mohammad Mokmeli	UFGNSM1160: Digital transformation in metallurgical engineering
14:40 – 15:00	Ms. Poursan Moradipour	UFGNSM1033: Investigation of the Zinc Oxide Corrosion Impact on the Self-propulsion of Rod-shaped Microswimmers under the Influence of H ₂ O ₂ Fuel and UV Light Radiation
15:00 – 15:30	Break	
Chair: Prof. Abdizadeh and Dr. Pishbin		Nanocomposites
15:30 – 16:00	Dr. Mohammad Abdollahad	UFGNSM1155: Functionalized MWCNT Needle-Based Biosensor, a New Medical Device for Intra-Operative Detection of Breast Cancer Margins
16:00 – 16:20	Dr. Behrooz Rahmatian	UFGNSM1153: Formation of nano-structured tribolayer on Ti 6Al 4V during sliding in a phosphate buffer saline solution
16:20 – 17:00	Poster Session	
17:00 – 18:00	Closing Ceremony	

Day 2, 24th Aban, 15th Nov. – Room B

Chair: Prof. Akhlaghi and Dr. Heidarzadeh		Nanocomposites
9:10 – 9:40	Prof. Jürgen Eckert	UFGNSM1097: Tailoring Deformation Characteristics of Bulk Metallic Glass Composites
9:40 – 10:00	Ms. Shima Kashani	UFGNSM1079: Effect of thickness on photoconversion efficiency of Al ₂ TiO ₅ /TiO ₂ /Al ₂ O ₃ nanocomposite films in water splitting
10:00 – 10:20	Mr. Mohammad Roostaei	UFGNSM1032: Wear properties of Al ₂ O ₃ /MoS ₂ nanocomposite coatings created by electro spark deposition and oxidation on the surface of Ti-6Al-4V alloy
10:20 – 11:10	Poster Session	
Chair: Dr. Akbari Musavi and Dr. Malekan		Simulation
11:10 – 11:30	Mr. Soroush Mohammadi	UFGNSM1035: Effect of sintering temperature and Al content on microstructure/hardness of SPS processed Al _x CoCuMnNi (x= 1, 0.25) high entropy alloys
11:30 – 11:50	Ms. Leila Alicheraghi	UFGNSM1138: A study of the magnetic properties of iron nanowires with varying aspect ratios by micromagnetic simulation
11:50 – 12:10	Mr. Alireza Edalatmanesh	UFGNSM1078: Effects of nanoglass process factors on its microstructure: a molecular dynamics study
12:10 – 13:30	Pray and Lunch	
Chair: Prof. Zarei Hanzaki and Prof. Ghasemi		Severe Plastic Deformation (SPD) And Thermomechanical Processing
13:30 – 14:00	Dr. Akbar Heidarzadeh	UFGNSM1057: Friction stir welding/processing of metals and alloys
14:00 – 14:30	Dr. Hamidreza Koohdar	UFGNSM1077: Stabilizing the ultrafine-grained austenite with a high strength in the microstructure of an Fe-9Ni-6Mn alloy under high-pressure torsion
14:30 – 14:50	Mr. Hassan Ghorbani	UFGNSM1113: Dislocation configurations of high-temperature long-term exposed polycrystalline GTD-111 nickel-based superalloy
14:50 – 15:20	Break	
Chair: Prof. Allahkaram and Dr. Mokmeli		Advanced Functional Materials
15:20 – 15:40	Dr. Morteza Hajizadeh-Oghaz	UFGNSM1085: Synthesis and Characterization of a Magnetic Recoverable BaFe ₁₂ O ₁₉ /g-C ₃ N ₄ Nanocomposite for Efficient Photodegradation of Rhodamine B
15:40 – 16:00	Ms. Tayebah Motahari	UFGNSM1087: The effect of molecular weight on the toughness of sintered polyethylene
16:00 – 16:20	Mr. Ehsan Motallebi Aghkonbad	UFGNSM1072: Study the effect of Fe nanoparticles doped on graphene nanosheets
16:20 – 17:00	Poster Session	
17:00 – 18:00	Closing Ceremony	