



4th POLISH-SLOVAK-CHINESE SEMINAR ON CERAMICS
under patronage of
President of the Slovak Academy of Sciences Prof. Pavol Sajgalik
and
His Magnificence Rector of AGH University of Krakow Prof. Jerzy Lis

Friday 27th September

Arrival of delegates – 19:00 welcome reception

Saturday 28th September

10:00 Invitation - welcome addresses – awards ceremony
 10:15-12:45 Lectures Session A (5)
 13:00-15:00 Lunch
 15:00-17:00 Lectures Session B (4)
 19:00- Dinner

Sunday 29th September

9:30-12:00 Lectures Session C (5)
 12:30-14:00 Lunch
 15:00-17:00 Krakow sightseeing
 19:00 Dinner

Monday 29th September

9:30-12:00 Lectures Session D (5)
 12:30-14:00 Lunch
 15:00-18:00 Round table discussion; AGH laboratories visiting according to individual plans
 19:00- Dinner

Tuesday 1st October

9:30-12:00 Lectures Session E (5)
 12:30-14:00 Lunch
 14:30-16:00 Lectures Session F (3)
 16:00-19:00 Wawel Castle visiting
 19:00- Farewell Dinner

Wednesday 2nd October

Departure of delegates

Sessions order – all presentations are invited lectures:

Session A

- 10:00-10:15 **Zbigniew Pędzich** – introduction and welcome address
- 10:15-10:45 **Hua-Tay Lin** – Microstructure Design of High Performance Ceramic Cutting Tools
- 10:45-11:15 **Lucyna Jaworska** – Obtaining of polycrystalline oxide-diamond material under reduced pressure conditions
- 11:15-11:45 **Wei Pan** – Metal bonding Ceramic Substrate by Atmosphere Plasma Spray
- 11:45-12:15 **Krzysztof Wojciechowski** – Composite Thermoelectric Materials with Attuned Electronic Structure and Mismatched Phonon Structure (AES-MPS)
- 12:15-12:45 **Feng Gao** – Microstructure and properties of high-entropy MeTiO₃ perovskite thermoelectric ceramics

Session B

- 15:00-15:30 **Pavol Hvizdoš** – Structural integrity and grain boundary strength of ultra-high temperature dual-phase high-entropy ceramic composites
- 15:30-16:00 **Ján Dusza** – Development of ultra-high temperature high-entropy ceramics
- 16:00-16:30 **Jingyang Wang** – High-entropy Environmental Barrier Coating for SiCf/SiC CMC
- 16:30-17:00 **Guojun Zhang** – Then emerging high-entropy ceramics and their nuclear applications

Session C

- 9:30-10:00 **Shiwei Wang** - Meter-size Alumina ceramics by Spontaneous Coagulation Casting and Pressureless Sintering
- 10:00-10:30 **Alexandra Kovalčíková** – Effect of SiC whiskers on mechanical properties, wear and oxidation resistance of high-entropy (TiZrHfNbTa)C carbides
- 10:30-11:00 **Jie Xu** – Composition design and properties of rare-earth-zirconate high-entropy porous ceramics
- 11:00-11:30 **Kaiqi Liu** – Low temperature preparation of solid thermal storage material for renewable energy
- 11:30-12:30 **Magdalena Dudek** – Materials for hydrogen conversion

Session D

- 9:30-10:00 **Jiang Li** – Transparent ceramics for optical and photoelectric applications
- 10:00-10:30 **Xiang Ming Chen** – Electric field-controlled magnetism in R-substituted BiFeO₃ multiferroic ceramics
- 10:30-11:00 **Jianfeng Yang** – Research on Fabrication of Silicon Carbide Ceramics with Very Low Residual Silicon Content through Reaction Sintering
- 11:00-11:30 **Dawid Kozień** – Reactive sintering of UHTC composites
- 11:30-12:00 **Paulina Wiecińska** – TBU

Session E

- 9:30-10:00 **František Lofaj** – The evolution and mechanical properties of reactively sputtered compositionally complex nitride coatings
- 10:00-10:30 **Leiyang Zhang** – The study of electrostrictive strain of relaxor ferroelectric ceramics materials
- 10:30-11:00 **Gang Liu** – The phase structure modification and dielectric energy storage performance of Na_{0.5}Bi_{0.5}TiO₃ based ceramics
- 11:00-11:30 **Chengyu Zhang** – Creep properties and damage mechanisms of (Ti,Zr)(C,B) ceramics
- 11:30-12:30 **Xingang Luan** – SiBCN-based ceramic films for high temperature electrode of SAW sensors

Session F

- 14:30-15:00 TBU
- 15:00-15:30 TBU
- 15:30-16:00 TBU