



The 4th Korean-Polish Joint Workshop on Advanced Ceamics

Co-organized by the Korea Institute of Materials Science, Polish Ceramic Society, AGH University of Science and Technology, and Warsaw University of Technology as a special symposium of 2023 Spring Meeting of the Korean Ceramic Society: 13~15 April 2023, Lamada Plaza, Jeju, Korea

Chairman of the event:

Jae-Ho JEON and Chang-Jun BAE (KOR) *Local organizer*
Zbigniew PEDZICH (PI) *Polish partner*

Before Workshop

21:40, 12 April Arrival to Jeju Airport

~22:30 Moving to Lamada Plaza Hotel and Check-in

06:30~10:00, 13 April Breakfast at Buffet Restaurant THE BLUE

10:00~12:00 Free-time

12:00~13:00: Workshop Lunch with Korean Participants at Tammora

Workshop on 13 April, Sara Hall II (2F) in Oriental Hotel

1st Session: 13:20~15:30

chair: Jae-Ho JEON

13:20~13:30 Opening

13:30~14:00 (Invited) Marek GRABOWY: Oxide particulate composites resistant for slow crack propagation phenomenon

14:00~14:30 (Invited) Young-Jo PARK: Research activity on plasma resistant bulk ceramics at KIMS

14:30~15:00 (Invited) Zbigniew PEDZICH: Boron carbide nanoparticles as potential IV generation boron carriers in Boron-Neutron Capture Therapy (BNCT)

15:00~15:30 (Invited) Temesgen Tadeyos ZATE: Time-Dependent Reversal Dynamics of Remanent Strain in Textured PMN-Based Piezoceramics

15:30~15:50 Coffee break

2nd Session: 15:50~17:50

chair: Zbigniew PEDZICH

15:50~16:20 (Invited) Jungho RHU: Enhancing output performance of Magneto-Mechano-Electric (MME) Generators

16:20~16:50 (Invited) Mikolaj SZAFRAN: Colloidal processing – an important tool in designing and manufacturing of advanced ceramics and composites

16:50~17:20 (Invited) Suk-Joong L. Kang: Mixed control of interface migration and microstructural evolution in polycrystals

17:20~17:50 (Invited) Radoslaw ZUROWSKI: UV curing assisted drop-casting as a novel technique in fabrication of ceramic microbeads

18:30-20:00 Dinner

Workshop on 14 April, Ora Hall (8F) in Lamada Plaza

3rd Session: 09:00~11:00

chair: Mikolaj SZAFRAN

09:00~09:30 (Invited) Chang-Jun BAE: In-situ sensing system to monitor building behavior of suspension-based additive manufacturing

09:30~10:00 (Invited) Pawel FALKOWSKI: Additive manufacturing processes in shaping of ceramic materials:

capabilities and challenges

10:00~10:30 (Invited) Ha-Neul KIM: Transparent magnesium aluminate spinel ceramics for visible and infrared durable windows

10:30~11:00 (Invited) Jan HEUBNER: Mechanochemical-hydrothermal synthesis of Li based materials for electrodes production

11:00~11:20 Coffee break

4th Session: 11:20~12:50, 14 April **chair: Chang-Jun Bae**

11:20~11:50 (Invited) Kyoong CHOI: Microstructure and mechanical properties of SiC_f/SiC composites fabricated by CVI/LSI/PIP hybrid process

11:50~12:20 (Invited) David KOZIEN: Low-temperature method of obtaining UHTCs composite from the Ti-Si system

12:20~12:50 (Invited) Dang-Hyok YOON: Various joining techniques for SiC and SiC_f/SiC

13:00~15:00 Workshop Lunch with Korean Participants at Tammora

15:00~18:00, 14 April Wrap-up meeting

10:00~18:00, 15 April Round-table discussion for future collaboration

16 April

06:30~10:00 Breakfast at Buffet Restaurant THE BLUE

~11:00 Check-out

11:30~12:00 Moving to Jeju Airport

12:00~14:00 Check-in and Lunch

14:40~15:50 Moving to Gimpo Airport

16:30~17:30 Moving to Miranda Hotel, Check-in

18:00~19:00 Dinner

17 April

07:00~08:00 Breakfast

~09:00 Check-out

09:00~09:30 Moving to KICET Icheon Branch, KICET

09:30~11:00 Brief of KICET Icheon Branch (Dean of Icheon Branch, AGH UST (Z. Pedzich), and WUT (M. Szafran)

11:00~12:00 Lab tour

12:10~13:10 Lunch

13:10~13:40 Moving to Ceramic Museum

13:40~15:10 Ceramic Museum tour

15:20~17:00 Seol-Bong Park tour

17:30~19:00 Dinner

19:00~ Moving to Incheon International Airport