



## Protective coatings for aviation industry - innovative barrier against high-temperature corrosion

### Date and place:

- DAY I – 28th May 2025. - AGH University of Krakow, address: al Mickiewicza 30, Krakow
- DAY II – 29th May 2025r. - Rzeszow University of Technology, ul. Wincentego Pola 2, Rzeszów

*Language of the event: English*

## AGENDA

### DAY I - 28th May 2025

**Place:** AGH University of Krakow, Faculty of Materials Science and Ceramics (WIMiC), al. Mickiewicza 30, 30-059 Krakow, Building B8 Hall 0.10A

**8:30 - 8:40**

### **OPENING OF THE WORKSHOP**

**Dr. Aneta Frączek-Szczypta, DSc, Eng., Prof. AGH** - Vice-Dean of the Faculty of Materials Science and Ceramics of AGH for General Affairs and Research

**8:40 - 9:00**

***Presentation “Silesian Aviation Cluster as a National Key Cluster supporting R&D projects”.***

**Jarosław Bulanda** - Vice President of the Silesian Aviation Cluster



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**9:00 - 11:00**

**GENERAL PROJECT MEETING**

**I. 9:00 – 10:30**

*Presentation – “PDC-TBC project - partners, user committee, objectives, first results”*

- a) **AGH - Dr. Maciej Bik, Eng.** - Assistant Professor, Faculty of Materials Science and Ceramics, AGH University of Krakow
- b) **RUT – Dr. Andrzej Nowotnik, DSc, Eng., Prof. PRz** - Rzeszow University of Technology, Department of Materials Science
- c) **DFI – Dr Emma White; Dr. Clara Schlereth, Eng.** - DECHEMA Research Institute

**II. 10:30 – 11:00**

**Open discussion**

**11:00-11:30**

**Coffee break and networking**

**11:30-12:30**

*Presentation “Spectroscopy in high-temperature corrosion ”*

- **Dr. Maciej Bik, Eng.** - assistant professor, Faculty of Materials Science and Ceramics, AGH University of Krakow
- **Dr. Piotr Jeleń, Eng.** - assistant professor, Faculty of Materials Science and Ceramics, AGH University of Krakow.

*A live demonstration of high-speed measurement and data processing on WITec's Raman microscope (300M+) is planned as part of the talk*

**12:30-13:30**

**Laboratory tour:**

- a. laboratories related to the PDC-TBC project
- b. laboratory associated with the NCBR LIDER project in the subject of C/C composite rocket engine nozzles under the leadership of Dr. Maciej Gubernat, Eng.
- c. laboratory associated with the NCN OPUS project in the subject of SOFC and SOEC electrodes from HEOx high-entropy ceramics under the leadership of Dr. Juliusz Dabrowa, Eng.

**13.30-14.30**

**Lunch and networking**

**14:30-16:30**

***Discussion Panel “Ceramics in high-temperature corrosion - aviation and energy industry”.***

- **Prof. Dr. rer. nat. Günter Motz** - University of Bayreuth, Faculty of Engineering Science, Chair of Ceramic Materials Engineering
- **Prof. Dr.-Ing. Mathias Galetz** - DECHEMA Research Institute
- **Dr. Anusha Sekar, Eng.** - Alexander Dubček University of Trenčín, FunGlass - Center for Functional and Surface Functionalized Glass
- **Dr. Sebastian Molin, DSc, Eng., Prof. PG** - Gdansk University of Technology, Department of Functional Materials Engineering WETI
- **Prof. Tomasz Wejrzanowski, DSc, Eng.** - Warsaw University of Technology, Department of Materials Design WIM
- **Dr. Grzegorz Moskal, DSc, Eng., Prof. PŚ** - Silesian University of Technology, Department of Advanced Materials and Technologies WIM

**Chairman:**

**Dr. Maciej Bik, Eng.** - assistant professor, Faculty of Materials Science and Ceramics, AGH University of Krakow

**16:30**

**OFFICIAL CLOSING OF THE DAY I**

**16.30 – 17.30**

*Technical project meeting (for project members only)*

**DAY II - 29TH May 2025**

Place: Rzeszow University of Technology, Department of Materials Science, Address: 2 Wincentego Pola St., Rzeszów bud. C - room 308

**12:00 - 15:00**

**Laboratory tour:**

Tour of the The Research and Development Laboratory for Aerospace Materials, building C and CL (research and technology part) - division into English-speaking and Polish-speaking groups

**15:00 - 16:00**

**Lunch and networking**

**16:00-17.30**

**Discussion panel “Challenges from the area of implementation of R&D work on modern TBC thermal barrier coatings”.**

- **Prof. Dr.-Ing. Mathias Galetz** - DECHEMA Research Institute
- **Dr. Anusha Sekar, Eng.** - Alexander Dubček University of Trenčín, FunGlass - Center for Functional and Surface Functionalized Glass
- **Dr. Marcin Drajewicz, DSc, Eng., Prof. PRz** - Head of Department, Rzeszow University of Technology, Department of Materials Science
- **Dr. Grzegorz Moskal, DSc, Eng., Prof. PŚ** - Silesian University of Technology, Department of Advanced Materials and Technologies WIM
- **Grzegorz Maciaszek, M.Sc.** - Rzeszów University of Technology, Department of Materials Science
- **Krzysztof Cioch, M.Sc.** - Rzeszow University of Technology, Department of Materials Science
- **Damian Nabel, M.Sc.** - Rzeszow University of Technology, Department of Materials Science

**Chairman:**

**Dr. Andrzej Nowotnik, DSc, Eng., Prof. PRz** - Rzeszow University of Technology, Department of Materials Science

**17:30**

**CLOSING OF THE DAY II**

**Apply for participation in the event by sending an email to: [gabriela.ryczek@aerosilesia.eu](mailto:gabriela.ryczek@aerosilesia.eu) with the name of the city Krakow and/or Rzeszow.**

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