

Session Program

30 August 2026 to 3 September 2026

Sintering 2026

**Field assisted sintering technology/Spark
Plasma Sintering FAST/SPS**

Monday 31 August

13:40

Field assisted sintering technology/Spark Plasma Sintering FAST/SPS

Session | **Location:** Eurogress Aachen, Room K4

13:40–14:10

COUPLING 3D PRINTING WITH FAST/SPS SINTERING: AN APPROACH TOWARDS FAST PROTOTYPING OF METALLIC COMPONENTS

Speaker

Umberto Anselmi-Tamburini

14:10

14:11

Field assisted sintering technology/Spark Plasma Sintering FAST/SPS: (1)

Session | **Location:** Eurogress Aachen, Brüssel Saal

14:11–14:41

High-Intensity Electric Nano Pulsing

Speaker

Prof. Eugene Olevsky

14:41–15:01

The effect of high-pressure induced plasticity on the microstructure and properties of nano-structured transparent ceramics fabricated using high-pressure spark plasma sintering

Speaker

Sandrine COTTRINO

15:01–15:21

Hard-to-Sinter materials in Easy-to-Sinter waveforms

Speaker

Dr Lars Helldahl

15:21–15:41

Double-Cycle Spark Plasma Sintering of percolating refractory metal-ceramic composites for electrified high-temperature processing

Speaker

Mr Gregory Kallien

15:41

16:01

Field assisted sintering technology/Spark Plasma Sintering FAST/SPS: (2)

Session | **Location:** Eurogress Aachen , Brüssel Saal

16:01–16:31

Elemental grain boundary segregation and geometry during spark plasma sintering of multi-component carbides

Speaker

Olivia Graeve

16:31–16:51

Pseudoelasticity in LaNbO₄ micropillars

Speaker

Mr Cesar I. Martinez-Cruz

16:51-17:11

Application of Spark Plasma Sintering to Simulate Volatile Fission Products in High Burn-Up Spent Nuclear Fuel

Speaker

Daniil Shirokiy

17:11-17:31

Spark Plasma Sintering Technique for Cyclotron Solid Target Manufacturing for Nuclear Medicine

Speaker

Alisa Kotliarenko

17:31

Tuesday 1 September

09:01

Field assisted sintering technology/Spark Plasma Sintering FAST/SPS: (3)

Session | **Location:** Eurogress Aachen, Brüssel Saal

09:01–09:31

Reactive pathways in zirconia based ceramics processing : when chemistry meets sintering

Speaker

Catherine ELISSALDE

09:31–09:51

High Entropy Oxides based on (Zr, Hf, Nb, Ta, Mo, W)Ox: From Powders to Resistively Switching RRAM Devices

Speaker

Christian Pithan

09:51–10:11

Effects of Pulsed Current Sinter-Forging Parameters on the Performance of Ba_{0.6}Sr_{0.4}TiO₃ Ceramics

Speaker

Oleksandr Tkach

10:11–10:31

Field-assisted sintering of biocompatible lithium sodium potassium niobate piezoceramics for bone regeneration

Speaker

Dr Abdullah Riaz

10:31

10:51

Field assisted sintering technology/Spark Plasma Sintering FAST/SPS: (4)

Session | **Location:** Eurogress Aachen, Brüssel Saal

10:51–11:20

Evaluation of high heating rates in FAST/SPS of WC/Ti powders

Speaker

Dariusz Garbiec

11:20–11:40

Influence of Deformation Speed on Final Density in Single-Discharge Sintering of Metallic Powders

Speaker

Alessandro Fais

11:40–12:00

FULL SCALE INDUSTRIALIZATION OF SPS/FAST FOR MANUFACTURING ADVANCED CERAMICS

Speaker

Luke Walker

12:00–12:20

Transfer of FAST / SPS technology from lab-scale to industrial usage for fusion energy, semiconductor and friction applications**Speaker**

Mrs Ute Wilkinson

12:20–12:40

Innovative Developments in Spark Plasma Sintering (SPS) Equipment Driven by Application Demands**Speaker**

Damian Karpowicz

12:40

13:40

Field assisted sintering technology/Spark Plasma Sintering FAST/SPS: (5)**Session** | **Location:** Eurogress Aachen, Brüssel Saal

13:40–14:10

Double-Tough Ceramics: Leveraging Multiscale Toughening via Material Design, FAST/SPS and Bayesian Optimization**Speaker**

Diletta Giuntini

14:10–14:30

Digital twin for thermal management in spark plasma sintering**Speaker**

Prof. Alexander Laptev

14:30–14:50

Experimental and numerical investigation of thermo-electric phenomena in SPS sintering**Speaker**

Fatima Nisar

14:50–15:10

Fully coupled Discrete Element Model for integrated Thermal-Electrical-Mechanical Phenomena in Spark Plasma Sintering**Speaker**

Jerzy Rojek

15:10

15:30

Field assisted sintering technology/Spark Plasma Sintering FAST/SPS: (6)**Session** | **Location:** Eurogress Aachen, Brüssel Saal

15:30–16:00

Processing studies on the high entropy (MoNbTaVW)C**Speaker**

Lavina Backman

16:00–16:20

Tuning the sintered microstructure of liquid-phase sintered SiC for corrosion resistance in HF acid.**Speaker**

Guillaume Rannou

16:20-16:40

Effect of Boron Nitride Nanotube Addition on ZrB₂-SiC Composites Fabricated by Spark Plasma Sintering-Reaction Synthesis

Speaker

Hyeondeok Jeong

16:40-17:00

Development of Multicomponent (ZrHfTaTi)C via Sequential Addition of Oxides to ZrO₂ using Carbothermal Reduction

Speaker

Rahul Mitra

17:00

Wednesday 2 September

09:00

Field assisted sintering technology/Spark Plasma Sintering FAST/SPS

Session | **Location:** Eurogress Aachen, Brüssel Saal

09:00–09:30

Engineering of microstructures of ceramic oxides using Flash or High-Pressure Spark Plasma Sintering

Speaker

Dr Claude ESTOURNES

09:30–09:50

Co-sintering of hydroxyapatite and bioglass: comparison between conventional sintering, Spark Plasma Sintering (SPS) and Ultra-fast High Temperature Sintering (UHS)

Speaker

Dr Romain Trihan

09:50–10:10

Manufacturing of monolithic heat shields using FAST/SPS and ACS technologies

Speaker

Maria Wiśniewska

10:10–10:30

Field-assisted sintering technique as a crucial element in the thin-film Li-ion production chain

Speaker

Mateusz Marczewski

10:30

11:20

Field assisted sintering technology/Spark Plasma Sintering FAST/SPS

Session

11:20–11:40

Application of field-assisted sintering for diffusion joining of tungsten-based SMART alloys to Eurofer steel for future fusion reactors.

Speaker

Ms Aparna Binu Varghese

11:40–12:00

Synthesis of rare earth free permanent magnets by spark plasma sintering

Speaker

Oliver Diehl

12:00–12:20

Large-Scale Synthesis of the Ti_3AlC_2 MAX Phase by Pressureless FAST/SPS Supported by Thermal Modeling

Speaker

Jakub Wiśniewski

12:20

Thursday 3 September

09:30

Field assisted sintering technology/Spark Plasma Sintering FAST/SPS: (9)

Session | **Location:** Eurogress Aachen, Brüssel Saal

09:30–09:50

Contamination, Phase Composition and Microstructure of SPS Zr-50%Ti Produced from Powders Obtained by Mechanical Synthesis and Plasma-Based Ultrasonic Atomization

Speakers

Prof. Lucyna Jaworska, Dr Joanna Kowalska, Dr Dorota Tyrła

09:50–10:10

Influence of air-atmosphere ball milling and SPS parameters on the microstructure and mechanical-tribological behaviour of Al-based MMCs

Speaker

Ms Hanen Ammari

10:10–10:30

Upcycling of Incinerated Municipal Solid Waste via Spark Plasma Sintering for Sustainable Construction Materials

Speaker

Mr H. Alkisaie

10:30

10:50

Field assisted sintering technology/Spark Plasma Sintering FAST/SPS: (10)

Session | **Location:** Eurogress Aachen, Brüssel Saal

10:50–11:10

Complete densification model of TiAl powder for Spark Plasma Sintering

Speaker

Khalil Chaaban

11:10