

ECerS
SUMMER
SCHOOL



Fundamentals and Advanced Technologies of **Sintering**

08-09 JULY 2022 • KRAKOW • POLAND

Programme

Day 1 – Friday 8th July 2022

9:00-9:30	Registrations
9:30-10:00	Welcome and Introduction by Dr. Francis Cambier and Prof. Zbigniew Pedzich : presentation of ECerS, JECS Trust + presentation of YCN by Dr. Nicolas Somers
10:00-11:00	Prof. Stuart Hampshire , University of Limerick - Ireland “Overview of the Fundamentals of Sintering”
11:00-11:30	Coffee Break
11:30-12:30	Prof. Anne Leriche , Polytechnic University Hauts-de-France, Valenciennes - France “Toolbox to control grain growth during densification of ceramics”
12:30-13:30	Lunch
13:30-14:30	Prof. Pavol Sajgalik , Academy of Sciences - Slovakia “Miracle versatility of advanced Si_3N_4 : from engineering to functional applications”
14:30-15:30	Prof. Gary Messing , Penn State University - USA “Contrasting Microstructure and Densification Processes during Solid State and Liquid Phase Sintering of Al_2O_3 ”
15:30-16:00	Coffee Break
16:00-17:00	Dr David Salamon , CEITEC - Czech Republic “Spark Plasma Sintering – design of experiments”
17:00-17:30	Damian Karpowicz and Maweja Kasonde , GeniCore – Poland “Examples of Industrial applications of U-FAST(SPS) and PPC technologies”
19:00	Dinner at STUDIO CLUB

Day 2 – Saturday 9th July 2022

9:00-10:00	Prof. Jon Binner , University of Birmingham - UK “Microwave sintering; what can it and can’t it do?”
10:00-11:00	Prof. Richard Todd , University of Oxford - UK “Flash Sintering – towards faster, cheaper, greener and better Ceramics”
11:00-11:30	Coffee Break
11:30-12:30	Mathias Herrmann , IKTS - Germany “Fundamentals and technology of hot pressing and hot isostatic pressing”
12:30-13:30	Lunch
13:30-14:30	Prof. Clive Randall , Penn State University - USA “Utilizing Cold Sintering in the Design and Integration of New Functional Composite Materials”
14:30-15:30	Dr Salvatore Grasso , Southwest Jiaotong University – China and Queen Mary university of London – UK “Impact of high heating rates: from pit firing to ultrafast high-temperature sintering”
15:30-16:00	Coffee Break
16:00-17:30	Round Table animated by Vojtěch Nečina , University of Chemistry and Technology, Prague - Czech Republic