

Session Program

9-12 Jul 2019

CHATS on Applied Superconductivity 2019

Session VI

Faculty of Mechanical Engineering and Mechatronics of the West Pomeranian University of Technology,
Szczecin
Al. Piastów 19, 70-310 Szczecin Poland

Wednesday 10 July

15:10

Session VI: Multiphysics modeling of superconducting devices

Session |

Location: Faculty of Mechanical Engineering and Mechatronics of the West Pomeranian University of Technology, Szczecin, Al. Piastów 19, 70-310 Szczecin Poland |

Convener: Sylvie NICOLLET

15:10–15:40

User Defined Elements in ANSYS for Multiphysics Modeling of Superconducting Magnets.

Speaker

Lucas Brouwer

15:40

16:00

Session VI: Multiphysics modeling of superconducting devices

Session |

Location: Faculty of Mechanical Engineering and Mechatronics of the West Pomeranian University of Technology, Szczecin, Al. Piastów 19, 70-310 Szczecin Poland |

Convener: Sylvie NICOLLET

16:00–16:30

OLYMPE, a multi-physic platform for fusion magnet design.

Speaker

Quentin Le Coz

16:30–17:00

Empowering the 4C code for the thermal-hydraulic analysis of coils for the design of future SC tokamaks: a novel, fully-3D model of the TF coil structures.

Speaker

Roberto Bonifetto

17:00

Thursday 11 July

08:55

Session VI: Multiphysics modeling of superconducting devices

Session |

Location: Faculty of Mechanical Engineering and Mechatronics of the West Pomeranian University of Technology, Szczecin, Al. Piastów 19, 70-310 Szczecin Poland |

Convener: Sylvie NICOLLET

08:55-09:25

Fundamental description of Field Induced Josephson junctions and devices built on their base.

Speaker

Krzysztof Pomorski

09:25-10:00

FEM Modeling Of Multilayer Canted Cosine Theta (CCT) Magnets.

Speaker

Rafal Ortwein / Przemyslaw Wachal

10:00