

**Session Program**

**28–31 Oct 2025**

# **Fifth Technical Meeting on Divertor Concepts**

## ***Poster Session***

IAEA Headquarters, Press Room (M-Building)

## Tuesday 28 October

16:40

### Poster Session

Poster Session | Location: IAEA Headquarters, Press Room (M-Building)

#### On the Possibility of Monitoring Liquid Metal Plasma-Facing Components via Emission by Computer Vision

Speaker

Nopparit Somboonkittichai

#### Network identification of the design structure matrix with application to STEP

Speaker

Lizan Kivits

#### Design and qualification activity of the first divertor of the DIVERTOR TOKAMAK TEST FACILITY

Speaker

Selanna Roccella

#### SOLPS-ITER Modeling of Low Recycling Divertor Solutions for the Spherical Tokamak Advanced Reactor (STAR)

Speaker

Eric Emdee

#### Assessing the tightly baffled long-legged divertor (TBLLD) concept in TCV

Speaker

Holger Reimerdes

#### DIVGAS: A Robust and Reliable Workflow for Modelling Divertor Neutral Gas Flow and Optimizing Divertors in Next-Generation Fusion Reactors – Applications to DTT and EU-DEMO Divertors

Speaker

Dr Christos Tantos

#### Buffering transient heat pulses with long-legged divertors in MAST Upgrade

Speaker

James Harrison

#### Core-edge integration studies in negative triangularity in TCV

Speaker

Olivier Février

#### Effects of active divertor cryo-pumping on particle exhaust in Wendelstein 7-X

Speaker

Victoria Haak

#### Impurity seeding for the control of the radiated power using bolometers in Wendelstein 7-X stellarator device

Speaker

Mr Anastasios Tsikouras

#### Predictions of radiation front location, volume, and radiated power dependency on operational parameters in a mid-leg pumped “chimney” divertor

**Speaker**  
Andreas Holm

### **Divertor Turbulence Control via Leg Geometry: Experimental Tests on TCV tokamak**

**Speaker**  
Marco Cavedon

### **Simulation study of the effect of impurities on the ELM dynamics using BOUT++ six-field two-fluid model**

**Speaker**  
Shifeng MAO

### **Study on the Thermal Performance of ITER Tungsten Divertor Monoblock Using Nanofluid for Cooling Enhancement**

**Speaker**  
Salah El-Din El-Morshedy

### **Development and Testing of a High-Density Tungsten Alloy Liquid Metal Divertor for Fusion Devices**

**Speaker**  
Asad Yaqoob Mian

### **Progress regarding tungsten-copper metal matrix composites based on additive manufacturing for plasma-facing components**

**Speaker**  
Robert Lürbke

### **MODELLING DIVERTOR SOLUTIONS FOR POWER EXHAUST: IN-DEPTH EXPERIMENTAL VALIDATION IN TCV**

**Speaker**  
Elena Tonello

18:00