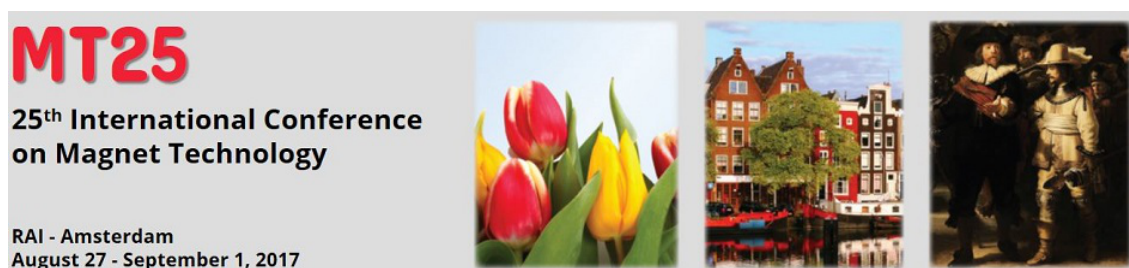


## Session Program

27 August 2017 to 1 September 2017



# MT25 Conference 2017 - Timetable, Abstracts, Orals and Posters

## *Wed-Af-Po3.07*

RAI Congress Center, Amsterdam, The Netherlands

## Wednesday 30 August

13:15

### Wed-Af-Po3.07: Levitation, Bearing and Separation

Poster Session | Location: Posters Area

#### **Design of hybrid thrust magnetic bearing for heavy rotating shaft considering self-weight compensation according to axial load**

**Speaker**

Chang-Woo Kim

#### **Experimental and numerical investigations on the separation behavior of magnetic particles under an alternating gradient magnetic field**

**Speaker**

Zhen WANG

#### **Air-gap Control for Superconducting-Hybrid Magnetic Levitation Systems via Linear Matrix Inequality Optimization**

**Speaker**

Kyoung-Jin Joo

#### **Levitation separation of precious metals utilizing magneto-Archimedes effect in high gradient magnetic fields**

**Speaker**

Osuke Miura

#### **Quality and Stability Improvement of DC Power Systems in All Electric Ship Using SMES/Battery**

**Speaker**

Mr Hamoud Alafnan

#### **Detailed analysis of conduction-cooled MgB<sub>2</sub> for use in superconducting magnetic density separation**

**Speaker**

Mr Dorus Dijkstra

#### **A Superconducting Magnetic Density Separation Laboratory Demonstrator**

**Speaker**

Mr Jaap Kosse

#### **A Design of Outer Yoke and Enclosure Considering Magnet Eddy Current Loss of Magnetic Gear**

**Speaker**

Mr Eui-Jong Park

#### **The Number of Magnet Poles Decision Method of Magnetic Gear for Torque Ripple Reduction**

**Speaker**

Mr Eui-Jong Park

#### **Direct simulation of interactive motion of magnetic particles in an oscillating magnetic field**

15:00

**Speaker**  
Dr Quanliang Cao