

# MPD2015: FIMECC Breakthrough Materials Doctoral School seminar

23.04.2015 14:43

**Date:**

10.06.2015 09:00

**Time:** Wednesday 10.6.2015 at 9.00-16.00, lunch 12.00-13.00

**Event:** Held in connection with the Manufacturing Performance Days 8-10.6.2015

**Place:** Tampere Hall, Yliopistonkatu 55, Tampere

With 30+ participants, FIMECC Breakthrough Materials Doctoral School is the largest industrially led and funded doctoral education programme in Finland. Its PhD students tackle real and critical industrial challenges with fundamental material science, including modelling and advanced experimental and characterisation techniques. The Doctoral School is a key part of FIMECC Hybrid Materials (HYBRIDS) and FIMECC Breakthrough Steels and Applications (BSA) research programmes, strengthening their scientific excellence and facilitating dialogue between industry and academia.

Come hear the latest highlights from cutting-edge materials research on hybrid materials and novel steels!

**Opening session:**

9:00-9:10 **Welcome and introduction**, Dr. Markku Heino,  
Programme Manager, FIMECC BSA & HYBRIDS

9:10-9:25 **Keynote: Material research challenges in mining equipment**, Dr. Marke Kallio, Metso

9:25-9:55 Keynote: Weldable high strength steels - challenges and applications, Prof. David Porter, University of Oulu

**Material Research Highlights:**

10:00-10:20 **Corrosion losses in Nd-Fe-B magnets**, Elisa Isotahdon,  
Tampere University of Technology

10:20-10:40 **Wear resistant composite thermal spray coatings**,  
Tatu Pinomaa, VTT & Aalto

10:40-11:00 Break

11:00-11:20 **Fatigue and failure modelling of ultra high strength steels**, Mohammad Dabiri, Lappeenranta University of  
Technology

11:20-11:40 **Abrasive and impact wear of high strength steels**,  
Matti Lindroos, Tampere University of Technology

11:40-12:00 **Modelling the bending of high strength steels**,  
Anna-Maija Arola, University of Oulu

12:00-13:00 Lunch



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Tampere, Finland  
8-10 June 2015

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