

PROGRAMME

Materials Processing Institute

2nd Postgraduate Research Symposium on Ferrous Metallurgy

Tuesday 26th February 2019

10.00 10.20	Desistration Coffee and Networking	15.20 15.40	Second Perambulation
10:00 - 10:20	Registration, Coffee and Networking	15:20 - 15:40	Poster Exposition
10:20 - 10:30	Welcome and Introduction Chris McDonald, Chief Executive Officer, Materials Processing Institute	15.40 - 16:00	Awarding of Prizes by the
10:30 - 11:50	Session 1: Materials Performance Chair Session 1: Dr. Steve Ooi (Ovako Steel) 1. Role of fracture toughness and wear mechanism in impact-abrasion. Presenter: Appa rao Chintha (University of Cambridge) 2. Using deep neural network with small dataset to predict solidification cracking susceptibility of stainless steels. Presenter: Shuo Feng (University of Leicester)		Armourers and Brasiers' Materials Science Committee 1. Best Paper and Runner-up 2. Best Poster 3. Best Pitch
		16:00 - 16:40	Keynote Speaker
	3. Aesthetic and performance enhancement of ZMA coated steels. Presenter: Amar Dhoj Malla (Swansea University)		Ron Deelen, Chief Marketing Officer, British Steel
	4. Comparison of Squats and Studs from different traffic environments. Presenter: Shaun Earl (University of Sheffield)	16:40 - 16:50	Vote of Thanks Chris Vaughan, Technical
11:50 - 12:10	First Perambulation Poster Exposition		Director, British Steel Drinks Reception
12:10 - 13:10	Session 2: New Materials Design Chair Session 2: Dr. Richard Thackray (University of Sheffield) 1. Hot stage quasi in-situ analysis of the effect of titanium and manganese on static recrystallization of cold-rolled low carbon V and Ti-V bearing micro-alloyed steels. Presenter: Ishwar Kapoor (WMG, University of Warwick)		
	2. Understanding the nano-oxide particle nature of irradiated oxide dispersion strengthened steels. Presenter: Thomas Davis (University of Oxford)		
	3. Surface texture and visual appearance of packaging steel. Presenter: Stephen Jones (Swansea University)		
13:10 - 14:00	Lunch and Networking St. George's Den (Library 13:35-13:50) Poster Exposition	VENUE: Armourers' Hall, Armourers & Brasiers' Company, 81 Coleman Street, London EC2R 5BJ Contact the organisers:	
14:00 - 15:20	Session 3: Materials Processing Chair Session 3: Professor Hongbiao Dong (University of Leicester) 1. Direct observation of coal particle swelling. Presenter: Ian Moore (Materials Processing Institute)		
	3. A microstructural evaluation of the cleavage fracture of as-cast slabs, known as 'Clinking'. Presenter: Guy Khosla (Imperial College, London)	Please join us: Eventbrite registration: http://bit.ly/2oTAuiT	
	4. TRansformation/TWinning Induced Plasticity (TRIP/TWIP) steels produced by additive layer manufacturing Presenter: Hossein Eskandari Sabzi (Lancaster University)		

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POSTER EXPOSITION

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The simulation of hydrogen in magnetic iron. Edmund Simpson (Kings College, London)

Hydrogen embrittlement of automotive ultra-high-strength steels - Generation & diffusion of atomic hydrogen. James Lelliott (Swansea University)

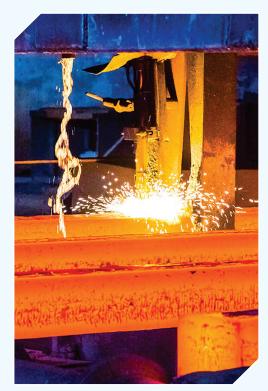
Atomistic simulations of BCC-Fe and ferrite. Angel Alberto Izquierdo Sanchez (Newcastle University)

Galling in 316 stainless steel. Samuel Rogers (Imperial College, London)

Nanoindentation as a method for phase mapping auto-tempered martensite and lower bainite mixed microstructure steels. Cameron Bee (WMG, University of Warwick)

Galvanised UHSS for automotive BIW applications. James Ayres (Swansea University)





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