

PROGRAMME

FEMS JUNIOR EUROMAT CONFERENCE 2018

The Main Event for Young Materials Scientists

July 8–12, 2018

BUDAPEST, HUNGARY

Organised under the auspices
of the Hungarian Society of Materials Science
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AKCongress

Akadémiai Kiadó / AKCongress
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MONDAY, 9 JULY		
10:00–12:00	Nagy Hall	Smain Mebrek (Algeria): Contribution of the comprehension of nanostructured (Fe ₆₅ Co ₃₅) _{100-x} Cr _x (x=0,10) some structural and magnetic properties
		Mikael P. Mille (Switzerland): Anisotropic influence of hydrides on fatigue properties of zirconium based nuclear fuel claddings
		Awais Qadir (Hungary): The effect of oxidized nanosized silicon nitride powder particles on the structural and mechanical properties of Si ₃ N ₄ /CNTs composite by hot isostatic pressing
		Stephen Edward Repper (United Kingdom): The development of titanium alloy powders produced via the metalysis process
		Abdelaziz Sabbar (Morocco): Structural and inhibitor characteristic of Bi ₂ O ₃ -P ₂ O ₅ -Nb ₂ O ₅ phosphates glasses
		Mohamed Sadek (Sweden): 3-point bending fatigue testing of automotive bar steel grades at 20 kHz
		Baran Sarac (Austria): Remarkable plasticity in iron-based metallic glass via finely-dispersed nanocrystals
		Malik Shukeir (France): Simulation of interactions between screw dislocations and radiation-induced defects in alpha-Iron using dislocation dynamics
		Andrea Školáková (Czech Republic): Formation of phases in Ti-20 wt. % Al mixture during reactive sintering
10:00–12:00	Glass Hall	Poster I.*
12:00–13:10		Lunch break
13:10–13:50	Nagy Hall	Plenary talk II. / Jan Duszka (Slovakia): Nano-mechanical testing of advanced ceramics / Session chair: George Kaptay
13:50–14:30	Nagy Hall	Plenary talk III. / Fabrice Stassin (Belgium): EMIRI activities and future perspectives / Session chair: George Kaptay
14:30–15:00	Aqua Bistro	Coffee break
15:00–16:00	Nagy Hall	Short oral II. / Modelling and characterisation / Session chair: Csaba Balázs
		Viktor Kripak (Germany): Influence of segregation, primary precipitation and process chain on grain size stability in case hardening steels
		Luís C. Martins (Portugal): Electrical conductive thermoplastic compounds for electromagnetic shielding applications
		Máté Sepsí (Hungary): Advanced non-destructive methods for residual stress and anisotropy determination by centreless X ray diffractometers
		Emmanouil Stavroulakis (United Kingdom): Functionally graded components for nuclear applications
		Dheeraj Varanasi (Hungary): Effect of chromium content of steel on grain boundary penetration of liquid copper
		Ábris Dávid Virág (Hungary): Modelling of the yarn pull-out process for the characterization of reinforcing woven fabrics
		Anna Wildeis (Germany): Consideration of the impact of residual stress on the short crack growth behavior in martensitic steels
		Mikhail I. Yagofarov (Russia): New aspects of relationship between enthalpies of fusion and solution of aromatic compounds in benzene