

## ICET 2012 Program - Track 4 in C7.01

Wednesday October 10, 2012		
9:00	Registration (9:00-17:00) in C1.0	
10:00	Opening	
11:00	Plenary Talk 1: <b>New Materials and Manufacturing Processes - C7.01</b>	<b>Prof. Dr. Rainer Gadow</b> University of Stuttgart
12:00	Coffee Break in C1.0	
12:30	October 10 - T4S1: Steel and Ferrous alloys	<b>Chair: Dr. Ahmed Abdel Aziz</b>
Paper ID	Title	Authors
126	Competition Between $\alpha$ - $\alpha'$ phase Crystallization in the Ternary Fe-Cr-Nb system	S. Mansour, N. Boutarek, S.E. Amara
183	On the Luder's strain of static strain aged dual phase steel	S. Ataya, S. Ibrahim
188	Characterization of mechanical and corrosion behavior of low_nickel cobalt_free maraging steel alloys	A.M. El-Aziz, A.M. Fathy, A.M.Hassan and G.I. Youssef
230	Steel Foam: Heat treatment, mechanical and corrosion behavior	A. Fathy, M. Kamal, A. Klingner, A. Abd El Aziz and E. Saif
260	Effect of Rolling Conditions on Ferrite Refinement of Low-carbon Steel	A. Elkawas, S. Ataya and S. Ibrahim
14:00	Lunch Break in C1.0	
15:00	October 10 - SS4: Advanced Materials	<b>Chair: Dr. Yasser Fouad</b>
Paper ID	Title	Authors
182	Manufacturing of ZTA composites for biomedical applications	M. Abou elezz, F. Kern, R. Gadow
236	Intrinsic Modification and Interfacial Behavior in a Titanium- Copper Metal Matrix Composite	Y. Fouad, and B. M. Rabeeh
256	The effects of graphite and SiC formation on mechanical and wear properties of aluminum- graphite (Al/Gr) composites.	E. Gewfiel, M. A. H. EL-Meniawi, and Y. Fouad
16:30	Plenary Talk 2: <b>Fraunhofer Institute for Mechanics of Materials, Freiburg and Halle Germany - Partner for RDI in Egypt - C7.01</b>	<b>Prof. Dr. Jahann Georg Blauel</b> Fraunhofer Institute
17:30	Dinner in C1.0	

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Thursday October 11, 2012		
9:00	Registration (9:00-17:00) in C1.0	
10:00	October 11 - T4S2: Non- Ferrous alloys and non metallic materials	Chair: Prof. Dr. Bakr Rabeeh
	Paper ID	Title
	122	Numerical study of the influence of mold filling conditions on the as-cast structure of Al-4 wt.% Cu ingots
	203	On $\gamma$ - $\gamma'$ eutectic in the as-cast and after heat treatment CMSX-4 nickel-based superalloy
	214	Effect of cold rolling and heat treatment of the formability of clad AL-MG alloy
11:00	Coffee Break in C1.0	
11:30	October 11 - SS-3: Materials problems in industrial applications	Chair: Prof. Dr. Brando Okolo
	Paper ID	Title
	120	Effect of CNF Addition into Cathode MPL on the Performance of Passive DMFC
	172	Welding of TMCP steels for offshore and onshore structure
	193	Effect of strain relaxation on the drain conductance in AlGaIn/GaN HEMTs.
	227	DIMOX and Rheocasting Induce Aluminum Foam Composite Materials
	228	Borosilicate Fiber Reinforced Aluminum Matrix Composite For Wound Healing And Bone Regeneration Implants
	229	Interface/ Interphase Kinetics in Al/Mg Metal Matrix Composite
14:00	Lunch Break - C1.0	

<b>15:00</b>	October 11 - T4S3: Surface Engineering and Applications	<b>Chair: Prof. Dr. Nahed El Mahallawy</b>	
	<b>Paper ID</b>	<b>Title</b>	<b>Authors</b>
	119	Surface coating of light metals using kinetic metallization – A new technology	M. Zhang, K. Spencer, Q. Wang, and D. M. Fabijanic
	164	Friction and wear behavior of polycrystalline alumina	L. Haddour, M. Keddam , and N. Mesrati
	231	Influence of Cobalt Content on the Process of Hydrogen Evolution on the Ni-Co Porous Electrode	A. Jaron
	266	Needle eye temperature measurement at different speeds of sewing	A. Mazari, A. Havelka, and F. B. Mazari
	<b>Invited Talk: Preparation of Superhard Tetrahedral Amorphous Carbon, Nano-Crystalline Diamond and Cubic Boron Nitride Films by means of Excimer Laser Ablation and Annealing</b> Prof. Dr. Steffen Weissmantel		
<b>17:30</b>	<b>Closing Ceremony in C1.0</b>		