	Key material fields for modern curricula		
	Organizer	Institution	Contact email
	H.M. Polatoglou	School of Physics, Aristotle University of Thessaloniki, e- science group	hariton@phycics.auth.gr
	Mébarek ALOUANI	Université de Strasbourg IPCMS – Département Magnétisme des Objets NanoStructurés (DMONS)	Mebarek.Alouani@ipcms.unistra.fr
G2	Michael Finnis	Imperial College London Faculty of Engineering, Department of Materials	<u>m.finnis@imperial.ac.uk</u>
	Summary		
	Materials science and technology through great breakthroughs are helping humanity to face great challenges such the climate change, sustainable development, energy efficiency, health, transportation, recreation and education. The implications of such progress have become so integrated to our daily life that are most of the time are taken for granted. It is urgent to close the gap between current science and technology education and everyday life experience by integrating materials education into curricula. This can also be extended to lifelong learning programs. The symposium will aim to bring together experts on material education to share best practices and new ideas with fellow materials educators and discuss key material fields for modern curricula. These could include e-learning, massive open on- line courses, materials portfolios, materials and sustainable development, laboratory work, introduction of nanotechnology to all levels of education, inspiration from nature, material selection, utilization of ab-initio simulations to explore key material properties, molecular dynamics simulations, common programs between industry, academia and schools, teacher's education on materials, etc.		

EUROMAT 2017/ Education and Technology Transfer/Area G