

EUROMAT 2017/ Education and Technology Transfer/Area G

G4	Transferable skills for Masters and PhD's in Material science		
	Organizer	Institution	Contact email
	Heinrich Hofmann	Ecole Polytechnique Federale de Lausanne	Heinrich.hofmann@epfl.ch
	Emmanuel P. Giannelis	Cornell University	epg2@cornell.edu
	Summary		
	<p>It is well acknowledged that material science engineers must have a solid formation in basic science and in engineering to be able to carry out successfully their often multidisciplinary work in academia and industry. But it is also well known that successful engineers must also have transferable skills like project management, communication, understand sustainable development and processes, entrepreneurial behavior and social competences. It is still under discussion if universities are capable to teach young students in this field, or they have to learn it by doing during the studies or later on job in academia (PhD work, Post-Doc) or in industry.</p> <p>In this session this topic will be discussed und 4 different aspects:</p> <ul style="list-style-type: none"> • The industrial needs (80 % or more of the students and PhD will work finally in the industry) • The academic needs (how can we prepare our students for an academic career?) • The possibilities and competences of universities to full fill this needs • How can students profit from this skills to find a job. <p>This session will bring together from inparticipants from industry and academia to discuss the different aspects and to show the different approaches in EU and US. The session will also be very interesting for young researchers to learn more about the expectations of industry and academia regarding the skills of a young potential collaborators</p>		