## 5th WMRIF General Assembly and Symposium "Materials meet Life" 2013

Program		
May 13, 2013	Materials for Health and Environment	
	1: Materials Challenges for Protection - Environment & Health	
	n: René Rossi, Empa	
08.45	Welcome Address	
	Thomas Böllinghaus – President of WMRIF WMRIF Past and Future	
	Gian-Luca Bona – Host Institute	
	Harald Krug - Organizing Team	
09.15	Keynote: Emmanuel Delamarche, IBM Research Biology at the microscale using open microfluidics	
09.55	Sheila Macneil, The University of Sheffield  Biomaterials for Wound Healing and Tissue Engineering	
10.20	Harald Fuchs, KIT, Uni Münster  Biomimetic surfaces by DPN-Lithography	
11.15	Wanida Janvikul, MTEC	
11.13	Biodegradable Polyesters for Cartilage Tissue Engineering	•
11.40	Anna Gorbushina, BAM Reference Organisms in Materials Science: Why and How?	
12.05	Günter Tovar, IGB Fraunhofer-Institut Polymer-based Biomaterials for Tissue Engineering by Chemical Design and Digital Processing	
12.30	Moderated Discussion	
12.40	Sponsor's Talk: Reto Luginbühl, RMS Foundation  Do's and Dont's in characterizing scaffolds for tissue engineering	

## Session 2: Sensors and Body Surveillance

cancer tissues and cell lines

Chairman:	Harald Fuchs, KIT, Uni Münster
14.15	Keynote: René Rossi, Empa  Textile Sensors for Body Monitoring
14.55	Intesham ur Rehman, The Kroto Research Institute
14.33	Spectroscopy of cancer: Raman spectroscopic analysis of different subtypes of breast

15.50	Patric Stayton, University of Washington Opening the Intracellular Universe of Disease Targets to Biologic Drugs	
16.15	Andreas Lendlein, Helmholtz Zentrum Geesthacht From Molecular Architectures to Polymer Systems to Biomaterial-based Applications - CANCELED	
16.40	Moderated Discussion	
16.50	Teruo Kishi, chairman of Tsukuba Innovation Arena Materials Research on structural materials and the Tsukuba Technology Initiative	
May 14, 2013	Medical Applications and Biological Safety	
Session 3:	Implants and Drug Delivery	
Chairman	: Bernd Nowack, Empa	
09.15	Huisuk Yun, KIMS Biomaterials for Hard Tissue Regeneration	
09.40	Roberto Milani, VTT Novel Biomimetic Approaches towards Biomedical Hybrid and 3D-Printed Materials	(PDE)
10.05	Takao Aoyagi, NIMS Smart Nanofibers for Biomedical Applications	
11.00	Sheng Lin-Gibson, NIST Material directed cell response: effect of chemical, physical, and mechanical properties	
11.25	Bernhard Weisse, Empa Ceramic hip joint implants – risk assessment and design optimization	
11.50	Moderated Discussion	

## Session 4: Materials Safety and Risk Assessment

12.05

Chairman	: Harald Krug, Empa
14.15	Keynote: Laurie E. Locascio, NIST  Understanding the simple material in the context of a complex integrated system when
	considering materials safety

Comparing nanoparticle with classic microparticle interactions in vivo

14.55 Peter Wick, Empa
What are cells telling us about nanomaterial safety?

Keynote: David Grainger, University of Utha





15.50 Nam Woong Song, KRISS
Standardization of PhysicoChemical Property Measurement on anomaterials for Nanosafety Evaluation



16.15 Bernd Nowack, Empa
Assessing environmental release and risks of nanomaterials



16.40 Moderated Discussion

End

May 15, Generaly Assembly 2013