



GSAM2018 Workshop Program



September 2 (Sunday) Welcome Reception

17:00 - 19:00

at Dai-hakata Bldg. Room 1109, <http://irc-gsam.kyushu-u.ac.jp/gsam/gsam2018/site.html>

September 3 (Monday) Opening Words

9:00 - 9:10	Zenji Horita	Kyushu University, Japan	Welcome words and general instruction Introduction of IRC-GSAM Center
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September 3 (Monday) Session (1) Chairperson: Kaveh Edalati (Kyushu University, Japan)

9:10 - 9:50	Ruslan Z. Valiev	Ufa State Aviation Technical University, Saint Petersburg State University, Russia	<Keynote> Developing medical implants with improved design and enhanced functionality from nanostructured metals
9:50 - 10:30	Takao Hanawa	Tokyo Medical and Dental University (TMDU), Japan	<Keynote> Durability and biofunction of metallic implant devices
10:30 - 10:50	<Coffee Break>		

September 3 (Monday) Session (2) Chairperson: Ruslan Z. Valiev (Ufa State Aviation Technical University, Russia)

10:50 - 11:20	Hakan Yilmazer	Yildiz Technical University, Turkey	<Invited> Significance of SPD for production of biomedical and biocompatible materials
11:20 - 11:50	Jorge M. Cubero-Sesin	Instituto Tecnológico de Costa Rica, Costa Rica	<Invited> Phase transformations and aging behavior of pure Ti and Ti-6Al-7Nb processed by high-pressure torsion
11:50 - 12:20	Maki Ashida	Tokyo Medical and Dental University, Japan	<Invited> Strengthening of Ti-6Al-7Nb alloy by high-pressure sliding
12:20 - 14:00	Workshop Photo <Lunch>		

September 3 (Monday) Session (3) Chairperson: Takao Hanawa (Tokyo Medical and Dental University, Japan.)

14:00 - 14:40	Terry C. Lowe	Colorado School of Mines, USA	<Keynote> Ultrafine Grain Magnesium for Bioabsorbable Medical Device Applications
14:40 - 15:20	Yuri Estrin	Monash University, The University of Western Australia, Australia	<Keynote> Mechanical properties, biocorrosion resistance, and cellular response of magnesium alloys with ultrafine crystallinity achieved by severe plastic deformation
15:20 - 15:50	Krzysztof Bryła	Pedagogical University of Cracow, Poland	<Invited> Microstructure, mechanical and degradation properties of Mg-4Ag alloy after equal channel angular pressing
15:50 - 16:10	<Coffee Break>		

September 3 (Monday) Session (4) Chairperson: Yuri Estrin (Monash University, Australia)

16:10 - 16:40	Suveen Mathaudhu	University of California, Riverside, USA	<Invited> Mechanical properties of nanocrystalline bioresorbable Fe-Mn alloy
16:40 - 17:10	Kei Ameyama	Ritsumeikan University, Japan	<Invited> Application of harmonic structure design to biomedical Co-Cr-Mo alloy
17:10 - 17:40	Xinkun Zhu	Kunming University of Science and Technology, China	<Invited> Effect of strain rate on mechanical properties of Cu/Ni multilayered composites processed by electrodeposition
18:30 - 20:30	Banquet at Kisoji (Hakataeki-minami) http://www.kisoji.co.jp/kisoji/english/location.html#fukuoka		

September 4 (Tuesday) Session (5) Chairperson: Terry C. Lowe (Colorado School of Mines, USA)

9:00 - 9:30	Kaveh Edalati	Kyushu University, Japan	BCC-Mg in comparison with Ti and Zr biomaterials
9:30 - 10:00	Makoto Arita	Kyushu University, Japan	In-situ analysis of ω phase to α phase transformation in titanium processed by high-pressure torsion
10:00 - 10:30	Zenji Horita	Kyushu University, Japan	Producing and characterizing of ultrafine-grained Ti and Zr with allotropic phase transformation
10:30 - 10:50	<Coffee Break>		
September 4 (Tuesday) Session (6) Chairpersons: Yuri Estrin (Monash University, Australia.) and Ruslan Z. Valiev (Ufa State Aviation Technical University, Russia) Recording: Jorge M. Cubero-Sesin (Instituto Tecnológico de Costa Rica, Costa Rica) and Kaveh Edalat (Kyushu University, Japan)			
10:50 - 12:20	Comments from Speakers, General Discussion and Closing Words		
13:20 - 16:30	Lab Tour		