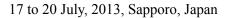


AGH-HU Joint Symposium 2013

AGH University of Science and Technology, Poland Hokkaido University, Japan





Wednesday, 17 July

18:00 **Reception Dinner**

Thursday, 18 July (venue: Academic Lounge 1, Graduate School of Engineering)

Session 1	Chaired by Prof. Kiyotaka Asakura
09:10	Welcome address
	Prof. Toyoji Kakuchi
	Dean of Graduate School of Chemical Science and Engineering, HU
09:20	AGH Current development and future trends
	Prof. Mirasław Karbowniczek
	Vice Rector of AGH University of Science and Technology
09:40	Combustion Synthesis of beta-SiAlON
	Professor Tomohiro Akiyama
	Faculty of Engineering, HU
10:00	AGH Faculty of Materials Science and Ceramics
	 Research development and teaching facilities
	Prof. Jerzy Lis
	Faculty of Materials Science and Ceramics, AGH
10:20	A Concept of Functional Microchannel Lining for Metallic Microreactors
	Assoc. Prof. Tatsuya Ohmi
	Faculty of Engineering, HU
10:40	Coffee Break
Session 2	Chaired by Assoc. Prof. Seiji Miura
11:00	Introduction of Hokkaido University
	HU students
11:30	Introduction of AGH University of Science and Technology
	AGH students
Session 3	Chaired by Prof. J. Krzysztof Fitzner
12:00	Aluminium nitride versatile but challenging material
	Prof. Dariusz Kata
	Faculty of Materials Science and Ceramics, AGH
12:20	A New Development of Organocatalytic Group Transfer Polymerization
	Prof. Toyoji Kakuchi
	Faculty of Engineering, HU

12:40 Lunch Break

Session 4	Chaired by Prof. Kazuhisa Azumi
14:10	Local surface modification by solution flow type micro-droplet cell
	Assoc. Prof. Masatoshi Sakairi
	Faculty of Engineering, HU
14:30	Research and development projects realized in the years 2008-2013
	in the Laboratory of Production Engineering
	Dr. Krzysztof Żaba
	Faculty of Non Ferrous Metals, AGH
14:50	Oxygen Reduction Reaction on Nitrogen-doped Graphene Grown
	by Low Temperature Chemical Vapor Deposition
	Lect. Satoshi Yasuda
	Faculty of Science, HU
15:10	Coffee Break
Session 5	Chaired by Prof. Tadeusz Telejko
15:30	Vibronic Switching of Fluorescence Output from Urea-Functionalized Poly
	(P-Phenylene) Receptor by Fluoride-Anion Recognition
	Assoc. Prof. Shin-ichiro Sato
	Faculty of Engineering, HU
15:50	Effect of Plastic Deformation on Stent Surface Roughness Considering Different
	Plaque Length
	Prof. Katsuhiko Sasaki
	Faculty of Engineering, HU
16:10	EELS and ab-initio study on electronic structure of faceted CSL boundary
	in silicon
	Assoc. Prof. Norihito Sakaguchi
	Faculty of Engineering, HU
16:30	Effect of ternary additives on the microstructure and mechanical properties
	of Nb-Si alloys
	Assoc. Prof. Seiji Miura
	Faculty of Engineering, HU

Friday, 19th of July (venue:

Morning sessions: Academic Lounge 1, Graduate School of Engineering Afternoon sessions: Hall, Jozankei Manseikaku Millione)

Session 6 09:00	Chaired by Prof. Maria Richert Synthesis of a Monolithic Carbon-Based Acid Catalyst for
07.00	Flow Reaction Systems
	Assoc. Prof. Isao Ogino
	Faculty of Engineering, HU
09:20	AGH Faculty of Metals Engineering and Industrial Computer Science
	- Research and development
	Prof. Tadeusz Telejko
	Faculty of Metals Engineering and Industrial Computer Science, AGH
09:40	Molecular motions in organic crystals and their application to design
	of ferroelectrics
	Assoc. Prof. Jun Harada
	Faculty of Science, HU
10:00	Coffee Break
10:20	In-situ Corrosion Measurement of Metals in Various Environments
	Prof. Kazuhisa Azumi
	Faculty of Engineering, HU
10:40	High-Temperature Corrosion of SiO2-Forming Materials
	Prof. Kazuya Kurokawa
	Faculty of Engineering, HU
11:00	Reaction Mechanisms of Hydrogen Storage Materials
	Assist. Prof. Shigehito Isobe
	Faculty of Engineering, HU
Session 7	Chaired by Prof. Masatoshi Sakairi
11:20	Influence of sintering conditions on phase evolution of SHS-derived materials
	in the Ti-Al-N system (Poster)
	Dr. Leszek Chlubny Faculty of Materials Science and Ceramics, AGH
11:30	Mechanical and Thermal Properties of High Thermal Conductive Aluminum
11.50	Based Composites Containing CF-CNT Filler (Poster)
	Mr. Ken Yamamoto
	Graduate School of Engineering, HU
11:40	Influence of sintering conditions on phase evolution of SHS-derived materials
	in the Ti-Al-N system (Poster)
	Dr. Leszek Chlubny
	Faculty of Materials Science and Ceramics, AGH
11:50	CO ₂ Gas Decomposition Using ZrO ₂ anode in Molten Salt (Poster)
	Mr. Takuya Uchiyama
	Graduate School of Engineering, HU

12:00	The EBSD analysis of microstructure of deformed materials (Poster) Dr. Małgorzata Perek –Nowak
	Faculty of Non Ferrous Metals, AGH
12:10	Pure-shear test analysis using Finite Element Method and Evaluation for
	CRSS of non-basal plastic deformation mechanisms of Mg-Y alloys (Poster)
	Mr. Takahiro Mineta
	Graduate School of Engineering, HU
12:20	Lunch Break
13:00	Transportation by bus to a resort hotel Jozankei Manseikaku Millione
	http://www.milione.jp/
Session 8	Chaired by Prof. Katushiko Sasaki
14:30	Fabrication of Al-coated Mg alloy sheet and its superplastic behavior (Poster)
	Ms. Toko Tokunaga
	Graduate School of Engineering, HU
14:40	Elektrochemical methods of oxide nanotubes synthesis on
	transition metals (Ti,Zr,Nb) (Poster)
	Dr. Piotr HandzlikFaculty of Non Ferrous Metals, AGH
14:50	Experimental study on the phase diagram of the (Nb,Mo)-rich region of the
	Nb-Mo-Si-B quarternary system (Poster)
	Mr. Takuya Yamanouchi
	Graduate School of Engineering, HU
15:00	Effect of severe plastic deformation on microstructure and properties of
	polycrystalline Cu and Al (Poster)
	Dr. Beata Leszczyńska – Madej
	Faculty of Non Ferrous Metals, AGH
15:10	Kinetic analysis of oxygen reduction reaction on Cobalt-porphyrin-modified
	Electrode (Poster)
	Ms. Shino Sato
	Graduate School of Chemical Science and Engineering, HU
15:20	Rheological properties and thermal conductivity of higly loaded AlN suspension
	(Poster)
	Dr. Maciej Wozniak
	Faculty of Materials Science and Ceramics, AGH
15:30	Coffee Break
Session 9	Chaired by Prof. Shin-ichiro Sato
15:50	Effect of Ni on the oxidation behavior of austenitic Fe-Cr-Ni alloys in air
	(Poster)
	Mr. Dai Takashima
	Graduate School of Engineering, HU
16:00	Studies on properties of silicaorganic gels (Poster)
	Ms. Joanna Mastalska

	Faculty of Metals Engineering and Industrial Computer Science, AGH
16:10	Strengthening of Silica Monolith Having Microhoneycomb Structure Using
	Treatment with Silane Solution (Poster)
	Mr. Yoshitaka Satoh
	Graduate School of Chemical Science and Engineering, HU
16:20	Studies on properties of silicaorganic gels (Poster)
	Ms. Joanna Mastalska
	Faculty of Metals Engineering and Industrial Computer Science, AGH
16:30	Rheological and functional properties of clay-cement suspensions (Poster)
	Mr. Łukasz Wójcik
	Faculty of Materials Science and Ceramics, AGH
16:40	Precise Synthesis of Star-Shaped Thermoresponsive Polymethacrylate by Group
	Transfer Polymerization (Poster)
	Mr. Seiya Kikuchi
	Graduate School of Chemical Science and Engineering, HU
16:50	Improvement of Oxidation Resistance of NbSi2 by Addition of Al (Poster)
	Mr. Toshihiro Kanaya
	Graduate School of Engineering, HU
17:00	Chemical properties of sewage sludge ashes designed for producing faced bricks
	(lab-scale trials) (Poster)
	Dr. Agata Stempkowska
	Faculty of Mining and Geoengineering, AGH
17:10	Crystal Structure and Magnetic Properties of New Melilite-type Compounds
	(Poster)
	Mr. Takashi Endo
	Graduate School of Chemical Science and Engineering, HU
17:20	Preparation of AlON materials by SHS (Poster)
	Dr. Dariusz Zientara
	Faculty of Materials Science and Ceramics, AGH

Saturday, 20th of July (venue: Hall, Jozankei Manseikaku Millione)

Session 9	Chaired by Prof. Jun Harada
09:00	Cyclic deformation and recrystallization annealing in shaping of shell elements
	made of nickel superalloys (Poster)
	Mr. Maciej Nowosielski
	Faculty of Non Ferrous Metals, AGH
09:10	Reactive Sintering of Ni-Al Alloys with Controlled Porosity Distribution (Poster)
	Mr. Yuya Teshirogi
	Graduate School of Engineering, HU
09:20	Synthesis of End-functionalized Polyacrylates by Group Transfer Polymerization
	(Poster)
	Mr. Kenji Takada
	Graduate School of Chemical Science and Engineering, HU
09:30	Hydroxyapatite Coating Deposited on Ti-6Al-7Nb Alloy by Micro-arc Oxidation
	for Medical Applications (Poster)
	Ms. Joanna Karbowniczek
	Faculty of Metals Engineering and Industrial Computer Science, AGH
09:40	Development and Application of Environmental Cell in High Voltage Electron
	Microscope (Poster)
	Mr. Takenobu Wakasugi
	Graduate School of Engineering, HU
09:50	Pulsed Laser Deposition technique for high-temperature superconductor
	thin films (Poster)
	Mr. Grzegorz Szwachta
	Faculty of Metals Engineering and Industrial Computer Science, AGH
10:00	Electrocodeposition of Al-Zn alloy from AlCl ₃ -EMIC ionic liquid including Zn
	Complexes (Poster)
	Mr. Yusuke Sato
	Graduate School of Chemical Science and Engineering, HU

Poser Session (venue: Hall, Jozankei Mansaikaku Millione)

10:30-