

Program at a glance

14th Polish-Japanese Joint Seminar on Micro and Nano Analysis Brief Program

3rd Sept.(Tuesday)	
Plenary session chair: Prof. Matsuda and Assoc. Prof. Maziarz	
14:00	Reception
14:50	Opening address Prof. Matsuda and Prof. Maziarz
15:00	(PL) M.Shiojiri: High Quality Nitride Thin Films Prepared by Atomic Layer Deposition
15:30	(PL) J.Dutkiewicz: Effect of high pressure on properties and structure of Zr-based glasses
16:00	(PL) S. Kret: Strain and defects in hetero and hybrid nanowires
16:30	Plenary session finish
17:30~ 19:30	Dinner (Chinese restaurant Big5)
4th Sept.(Wednesday)	
Session 1- Chair :Prof. J.Dutkiewicz	
09:20	(KS) T. Shibayama: A new pathway to prevent surface oxidation of Copper by He ⁺ ion implantation
09:50	(IS) J. Morgiel: TEM/EDS analysis of Ti coated c-BN powders developed for high strength sinters
10:10	(IS) M. Ishimaru: Radiation-induced short-range ordered structures in ceramics
10:30	E. Tanabe: Microstructure and PFIB-TOF-SIMS spectra of oyster nacre by production sea area
10:50	Coffee break
Session 2 -A Chair : Assoc. Prof.T. Shibayama	
11:10	(IS) K. Nishimura: Muon Spin Relaxation Measurement of Al-Sc Alloy
11:30	(IS)N. Sakaguchi: Observation of Pt monoatomic diffusion by continuous HAADF-STEM
11:50	W. Zajkowska-Pietrzak: Synthesis and characterization of piezoelectric core-magnetostrictive shell nanowires for nano- magneto- electro- mechanical systems (NMEMS)
12:10	A. Kaleta: Structural Defects in NbN/III-N Heterostructures for Metal-Base Transistors
12:30	Lunch (ANA Crowne Plaza Hotel 1st floor, buffet)
Session 3- Chair :Prof. M. Ishimaru and Assoc. Prof. S. Kret	
14:00	(KS) A. Wójcik: Microstructure and functional properties of 3D printed NiMn based magnetic shape memory alloys
14:30	(IS) T. Goryczka: Evolution of the phase composition in nickel predominant NiTi shape memory alloy during high-energy ball milling
14:50	(IS) R. Chulist: Crystallographic and physical aspects of twinning in shape memory and hexagonal metal/alloys
15:10	A. Abrar: Microstructure observation of T-phase in Al-Zn-Mg alloy with high Mg content
15:30	M. Emerla: Microstructure characterization of the electron beam welded Al-Zn-Mg-Cu alloy
15:50	V.G.Hai: Study on microstructure evolution in Al-Cu-Mg(-Si) during artificial aging
16:10	M. Linska: Microstructure characterization of Al/Al ₂ O ₃ composites obtained via friction stir processing method
16:30	Session 3 finish
Poster session (16:30~17:30)	
18:00 ~ 20:00	Dinner (Yakitori restaurant Toritetsu)

5th Sept.(Thursday)	
Session 4-Chair :Assoc. Prof. K. Bryla	
09:20	(IS) A. Sypien: Effect of plastic and heat treatment on the microstructure, phase composition and thermo-mechanical properties of new functional Cu-Zn-In alloys
09:40	(IS) M. Zubko: Revealing Crystal Structure Features Using Electron Diffraction with the Precession Method
10:00	(IS) S. Lee: Effect of Cu addition on excess Si-type Al-Mg-Si alloys aged at different temperatures
10:20	T. Tsuchiya: TEM observation of Al-7Si-Mg casting alloy in T5 condition
10:40	T. Yoshida: Effect of the grain boundary microstructure on SCC resistance of high strength Al-Zn-Mg alloys extruded materials
11:00	Coffee break
Session 5 -Chair : Assoc. Prof. M. Haruta	
11:20	(KS) Y. Murakami: Electron Holography Studies on Catalyst Metal Nanoparticle
11:50	(IS) W. Maziarz: Multiscale microstructure characterisation of Metal Matrix Composites (MMC) reinforced by the ultrafine particles
12:10	(IS) K. Bryla: An Evaluation of the Microstructure and Mechanical Properties in a Zn-1Mg Alloy Processed by ECAP
12:30	Lunch ((ANA Crowne Plaza Hotel 1st floor, buffet) (*Committee meeting- 3rd floor ASUKA)
Session 6- Chair : Prof. Y. Horibe	
14:30	(IS) D. Oleszak: High Entropy Multicomponent Materials - a wide variety of structures, properties and processing routes
14:50	M. Ziabka: Biological Response of Zirconia Based Ceramic Composites
15:10	K. Gryn: Microstructural analysis of welds of thin wires NiTi/AISI301 obtained by a novel approach of laser welding with no filler and no shielding atmosphere
15:30	Coffee break
Session 7 - Chair :Assoc.Prof. R. Chulist	
15:50	(IS) M. Haruta: Extraction of Thermal vibration factor from ELNES
16:10	(IS) T. Tokarski: Unconventional applications of Electron Backscattering Diffraction (EBSD) in metallic materials
16:30	Y. Nakagawa: Nanostructure changes of tungsten oxide: Identical-location STEM analysis of light-induced effects in air and in-situ HVEM observation in ionic liquid
16:50	Session 7 finish
18:00 ~ 20:00	Banquet (ANA Crowne Plaza Hotel, 3rd floor ASUKA2)
6th Sept.(Friday)	
	Technical tour, Committee meeting
* (Pl): Planery lecture, (KS) : Keynote speaker, (IS) : Invited speaker	

Index of Posters

(P 1) **A. Fidler:** Synthesis and crystal structure of single-walled carbon nanotubes filled with ruthenium compounds

(P 2) **M. Wojcik:** Dislocation network and moiré pattern analysis in partially relaxed hybrid radial (Pb,Sn)Te/WZ-GaAs nanowire heterostructures

(P 3) **K. Koshiishi:** Microstructure observation of thermomechanical processed Al-1.5Cu-0.5Mg(mol%) alloy at different aging temperatures

(P 4) **Y. Nakagawa:** Effect of Impurity Transition Metal Additions on Age-Hardening Behavior of 6063 Alloy

(P 5) **H. Yokoyama:** Heat Treatment Temperature Dependence of Microstructure in Cu Alloy Nb₃Sn Superconductor Wire

(P 6) **T. Yagi:** Effect of Two-Step Aging on Microstructure of Al-Zn-Mg Alloys

(P 7) **H. Sugano:** Optimal material selection method by condition using autoencoder and clustering

(P 8) **T. Yoshida:** First-principles calculation of magnetism in Fe atom adsorption on graphene

(P 9) **Mohd Azri Azizi Bin Ismail:** Synthesis of TiO₂@NiO core-shell nanoparticles using solution plasma

(P 10) **H. Fukushima:** Microstructural observation of Al-7%Si alloys heat-treated with small amount of Mg addition

(P 11) **K. Fujimoto:** Microstructure observation of Al-Mg-Si-(Cu, Ni) alloy after long time natural aging treatment

(P 12) **W. Sanphiboon:** Study on the precipitation sequence in Al-Zn-Mg with low Zn/Mg aged at 423 K

(P 13) **S. Takehata:** Microstructure observation of Mg-Zn-Al alloy aged at 423K

(P 14) **F. Araki:** Transmission electron microscopy analysis of silver-doped bioactive glasses prepared by spray drying methods

(P 15) **P. T. Linh:** Carbon-nanotube-based photocatalysts enabling a visible-light-driven Z-scheme overall water splitting in cooperation with WO₃

(P 16) **K. Kondo:** Microstructure observation of 60/40Cu-Zn alloys with different amounts of Si added