

IIW6 2018 / Program *At a Glance as of June 13.*

	July 1 Sun	July 2 Mon	July 3 Tue	July 4 Wed	July 5 Thu	July 6 Fri
8:30		Opening Address(10)				
8:45		<p>Munawar Chaudhri University of Cambridge/GBR The Love equation for the normal loading of a rigid cone on an elastic half-space and its recent modification</p> <p>Fazilay ABBES University of Reims Champagne Ardenne/FRA Computational and experimental investigation of nanoindentation patterns and deformation mechanisms in pure zinc polycrystal</p> <p>Srinivasan Chandrasekar Purdue University/USA Modes of Deformation in Wedge Indentation of Metals</p> <p>Coffee Break(30)</p> <p>Dongil Kwon Seoul National University/KOR Mechanical Property Characterization Using Instrumented Indentation Test: Strength, Toughness, and Residual Stress</p> <p>Jun Sang Lee Seoul National University/KOR Evaluating Directionality of Residual Stress Using Instrumented Indentation Test with Anisotropic Indenter in Multi Scale</p> <p>General Discussion (10)</p> <p>Workshop Photo at the conference hall</p> <p>Lunch Break (12:15-13:30)</p> <p>Poster Session</p>	<p>8:45</p> <p>František Lofaj Institute of Materials Research of the Slov Academy of Sciences/SVK Finite Element Modeling of Nanoindentation and Scratch Testing in the Hard Coating/Softer Substrate System</p> <p>Shinya Sasaki Tokyo University of Science/JPN Utilization and issues of nanoindentation in the tribology field</p> <p>Coffee Break(30)</p> <p>Kenji Matsuda Kyushu Institute of Technology/JPN Rebound Hardness Testing by Using Hammer with Pyramidal Indenter</p> <p>Hyeonjin Eom Korea Institute of Industrial Technology/KOR The Impact of Thermal Annealing on the Mechanical and Thermal Characteristics of Electroformed Ni-52wt%Fe Alloy Film</p> <p>Ryuta Kasada Tohoku University/JPN Indentation hardness of ion-irradiated materials revisited</p> <p>General Discussion (10)</p> <p>Lunch Break (12:00-13:30)</p> <p>Poster Session</p>	<p>Warren Oliver Nanomechanics, Inc./USA High Temperature, High Strain Rate and Two Dimensional Indentation Testing.</p> <p>Michael Griepentrog Bundesanstalt für Materialforschung und -prüfung/GER Towards the standardization of Dynamic Instrumented Indentation Testing</p> <p>Coffee Break(30)</p> <p>Sponsor talk 1 Anton Paar</p> <p>Sponsor talk 2 Bruker</p> <p>Sponsor talk 3 Frontics</p> <p>Sponsor talk 4 Nanomechanics</p> <p>General Discussion (10)</p> <p>12:40</p> <p>Excursion</p>	<p>Karsten Durst Technische Universität Darmstadt/GER Indentation Size Effect- New insights based on High Resolution EBSD and etch pit analysis</p> <p>Shigenobu Ogata Osaka University/JPN Atomistic prediction of temperature and loading-rate dependent critical indentation load of the onset of homogeneous dislocation nucleation</p> <p>Coffee Break(30)</p> <p>Jorge Alcalá Universidad Politecnica de Catalunya (BarcelonaTech)/ESP Understanding nanoscale hardness across crystal structures and temperatures</p> <p>Maha Mohammed Khayyat National Nanotechnology Center, Materials science research institute/SAU Investigations of structural phase transformations of Si, Ge, GaAs single crystals, and GaN nanomembranes due to nanoindentation for advanced applications</p> <p>In-suk Choi Seoul National University / KOR High fracture strength of flaw containing alumina hollow nanostructures for high-efficiency GaN LEDs</p> <p>General Discussion (10)</p> <p>Lunch Break (12:10-13:30)</p> <p>International organaizing committee meeting</p> <p>Poster Session</p>	<p>Tatsuya Miyajima National Institute of Advanced Industrial Science and Technology/JPN Adhesive Indentation Contact of Soft Matter</p> <p>Alexey Useinov Technological Institute for Superhard and Novel Carbon Materials/RUS The Diamond Indenter Working as an Optical Objective</p> <p>Daniel Omacht Material and Metallurgical Research Ltd./CZE Temperature measurement and calibration in SP testing machines and equipment</p> <p>Coffee Break(30)</p> <p>Hitoshi Sumiya Sumitomo Electric Industries, LTD./JPN Microfracture strength evaluation for diamond related materials using nano-polycrystalline diamond spherical indenter</p> <p>Takashi Yamamoto Yamamoto Scientific Tool Lab. Co.,Ltd./JPN New Methods of Static and Dynamic Industrial Hardness Testing: Equivalent Indentation Depth and Small Ball Rebound Hardness Tests</p> <p>Yuji Enomoto Shinshu University/JPN Measurements of pressure-impressed electric currents during indentation-rock fracture with gas flow</p> <p>General Discussion (10)</p> <p>Closing remarks(10)</p> <p>Lunch (12:25-14:00)</p>
12:00						

13:30		In-situ straining Andrew Minor UC Berkeley and LBNL/USA Local Strain Analysis using Scanning Nanobeam Electron Diffraction during in situ TEM Nanomechanical Testing Mathias Göken Friedrich-Alexander-University Erlangen-Nürnberg / GER Deformation Mechanisms at the Nanoscale - From superplastic deformation to thin films Douglas Dean Stauffer Bruker Nano, Inc./USA In Situ TEM Fatigue of Copper Thin Films Eita Tochigi The University of Tokyo/JPN Dynamic Behavior and Interface Structure of Rhombohedral Twinning in Sapphire Coffee Break(30)	Soft matter Alfonso H.W. Ngan University of Hong Kong/HKG Indentation of ultra-soft materials: pico-indentation of non-adherent cells in the Pa-modulus range Yoshihisa Fujii Mie University/JPN Mechanical Properties of Polymer Thin Films near Interfaces and Free Surfaces Kenichi Kojima Yokohama Soei University/JPN Micro-indentation hardness of Lysozyme crystals Kiran Mangalampalli SRM Research Institute/IND Mechanical behavior of molecular crystals Coffee Break(30)	Yoichi / Otaru	Bulk metals Heung Nam Han Seoul National University/KOR A study on ductile-brittle transition of tungsten using nano-indentation Giovanni Maizza Politecnico di Torino/ITA Mechanics of Instrumented Indentation Test for Elastoplastic Alloys Jae-il Jang Hanyang University/KOR Nanoindentation study on advanced structural materials: Beyond hardness and modulus Shijo Nagao Osaka University/JPN Size dependent beam bending toughness on porous network structure in sintered Ag targeted for wide bandgap power device packaging Coffee Break(30)	<table border="1"> <tr><td>Keynote (45)</td></tr> <tr><td>Invited (35)</td></tr> <tr><td>Contributed (25)</td></tr> <tr><td>Sponsor talk (20)</td></tr> </table>	Keynote (45)	Invited (35)	Contributed (25)	Sponsor talk (20)
							Keynote (45)			
Invited (35)										
Contributed (25)										
Sponsor talk (20)										
18:00	Welcome Reception 18 : 00-20 : 00	Steels, SMA Jer-Ren Yang National Taiwan University/TWN In-situ nanoindentation (coupled with TEM) investigation of deformation behavior of spinodal nanostructured α -ferrite nanopillars in a duplex stainless steel Ling Zhang Chongqing University/CHN Nanoindentation characterization of heterogeneous multilayered interstitial-free steel Anuja Jaganathan Indian Institute of Science/IND Finite Element Simulations on the indentation response of Shape Memory Alloys General Discussion (10) (17:45END)	Glasses Morten M Smedskjaer Aalborg University/DNK Towards the Design of Indentation Crack Resistant Oxide Glasses Satoshi Yoshida The University of Shiga Prefecture/JPN In-Situ Raman Measurements of Silicate Glasses during Indentation General Discussion (10) Poster Session - Core Time - Odd Number 17:10-18:10 Even Number 18:10-19:10 <i>(with light meal)</i> (19:30 END)	BBQ Dinner 18 : 00-20 : 00	Indentation Creep Hidenari Takagi College of Engineering, Nihon University/JPN Mechanical Characterization at High Temperature through Instrumented Indentation Testing Techniques Shunnosuke Kishibe Shibaura Institute of Technology/JPN Evaluation of creep compliance in necking part of thermoplastic by multicycle indentation Mohammad Zamanzade Saarland University/GER Contributions of hydrogen on the mechanical properties of Nickel Kota Tomatsu Nippon Steel Sumitomo Metal Corporation/JPN Hydrogen Embrittlement Evaluation of Drawn Pearlitic Steel by In-situ Microbending Test during Cathodic Hydrogen Charging General Discussion (10) (18:10END)	Banquet 19:00-21:30				