

IIW6 2018 / Tentative program *At a Glance* as of May 7, 2018.

	July 1 Sun	July 2 Mon	July 3 Tue	July 4 Wed	July 5 Thu	July 6 Fri
		Opening Address(10)				
<b>8:45</b>		<p><b>Munawar Chaudhri</b> 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><b>Fazilay ABBES</b> University of Reims Champagne Ardenne/FRA Computational and experimental investigation of nanoindentation patterns and deformation mechanisms in pure zinc polycrystal</p> <p><b>Srinivasan Chandrasekar</b> Purdue University/USA Modes of Deformation in Wedge Indentation of Metals</p> <p>Coffee Break(30)</p> <p><b>Dongil Kwon</b> Seoul National University/KOR Mechanical Property Characterization Using Instrumented Indentation Test: Strength, Toughness, and Residual Stress</p> <p><b>Jun Sang Lee</b> 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>8:45</p> <p><b>František Lofaj</b> Institute of Materials Research of the Slovak Academy of Sciences/SVK Finite Element Modeling of Nanoindentation and Scratch Testing in the Hard Coating/Softer Substrate System</p> <p><b>Shinya Sasaki</b> Tokyo University of Science/JPN Utilization and issues of nanoindentation in the tribology field</p> <p>Coffee Break(30)</p> <p><b>Kenji Matsuda</b> Kyushu Institute of Technology/JPN Rebound Hardness Testing by Using Hammer with Pyramidal Indenter</p> <p><b>Hyeonjin Eom</b> 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><b>Ryuta Kasada</b> Tohoku University/JPN Indentation hardness of ion-irradiated materials revisited</p> <p>General Discussion (10)</p>	<p><b>Warren Oliver</b> Nanomechanics, Inc./USA High Temperature, High Strain Rate and Two Dimensional Indentation Testing.</p> <p><b>Michael Griepentrog</b> Bundesanstalt für Materialforschung und -prüfung/GER Towards the standardization of Dynamic Instrumented Indentation Testing</p> <p>Coffee Break(30)</p> <p>Sponsor talk 1 <b>Anton Paar</b></p> <p>Sponsor talk 2 <b>Bruker</b></p> <p>Sponsor talk 3 <b>Frontics</b></p> <p>Sponsor talk 4 <b>Nanomechanics</b></p> <p>General Discussion (10)</p>	<p><b>Karsten Durst</b> Technische Universität Darmstadt/GER Indentation Size Effect- New insights based on High Resolution EBSD and etch pit analysis</p> <p><b>Shigenobu Ogata</b> 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><b>Jorge Alcalá</b> Universidad Politecnica de Catalunya (BarcelonaTech)/ESP Understanding nanoscale hardness across crystal structures and temperatures</p> <p><b>Maha Mohammed Khayyat</b> 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><b>In-suk Choi</b> 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><b>Tatsuya Miyajima</b> National Institute of Advanced Industrial Science and Technology/JPN Adhesive Indentation Contact of Soft Matter</p> <p><b>Alexey Useinov</b> Technological Institute for Superhard and Novel Carbon Materials/RUS The Diamond Indenter Working as an Optical Objective</p> <p><b>Daniel Omacht</b> Material and Metallurgical Research Ltd./CZE Temperature measurement and calibration in SP testing machines and equipment</p> <p>Coffee Break(30)</p> <p><b>Hitoshi Sumiya</b> Sumitomo Electric Industries, LTD./JPN Microfracture strength evaluation for diamond related materials using nano-polycrystalline diamond spherical indenter</p> <p><b>Takashi Yamamoto</b> 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><b>Yuji Enomoto</b> 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>
<b>12:00</b>		<p>Workshop Photo at the conference hall</p> <p>Lunch Break (12:15-13:30)</p> <p><b>Poster Session</b></p>	<p>Lunch Break (12:00-13:30)</p> <p><b>Poster Session</b></p>	<p>General Discussion (10)</p> <p><b>Excursion</b></p>	<p>General Discussion (10)</p> <p>Lunch Break (12:10-13:30)</p> <p>International organaizing committee meeting</p>	

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

Keynote (45)
Invited (35)
Contributed (25)
Sponsor talk (20)