Program

Nanomechanical Testing in Materials Research and Development VIII

October 2-7, 2022 Le Méridien Lav Split Split, Croatia

Conference Chair

Sandra Korte-Kerzel RWTH Aachen University, Germany





Engineering Conference International
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Nanomechanical Testing in Materials Research & Development II October 11 - 16, 2009 Barga, Italy

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Nanomechanical Testing in Materials Research & Development III October 9 – 14, 2011

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Nanomechanical Testing in Materials Research & Development IV

October 6 - 11, 2013

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Nanomechanical Testing in Materials Research & Development V

October 4-9, 2015

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Nanomechanical Testing in Materials Research & Development VI

October 1-6, 2017

Dubrovnik, Croatia

Conference Chair:

Karsten Durst, Technical University of Darmstadt, Germany

Nanomechanical Testing in Materials Research & Development VII September 29 – October 4, 2019

Torremolinos/Malaga, Spain

Conference Chair:

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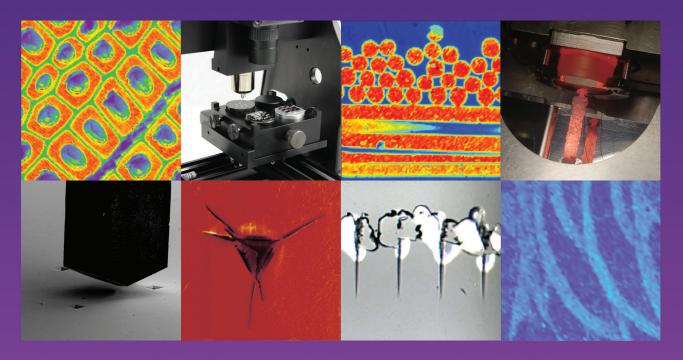
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Dr. Warren Oliver presents "Measurement of Hardness and Elastic Modulus by Depth Sensing Indentation: improvements to the Technique Based on Continuous Stiffness Measurement"

Poster Session



Dr. Yujie Meng presents "Exploring Accurate Structure, Composition and Mechanical Properties of η Carbides in High Tungsten Iron-based Alloy: High-throughput Mapping and DFT Calculations" Poster Session





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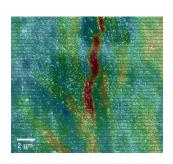


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Seeing beyond

Locations and Notes

- Technical sessions will be in Grand Dalmatia and poster sessions will be in Mestrovic.
- The ECI on site office will be in the Vis Room.
- Please wear your mask except when giving a presentation or actively eating or drinking. Please maintain physical distancing as much as possible.
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Sunday, October 2, 2022

09:30 - 10:00	Check-in for Optional Tutorial Session (Vis – conference office)
10:00 – 13:00	Tutorial Sessions (parallel)
	Analyzing dislocations in the TEM Marc Legros, CEMES-CNRS, France
	Studying rate and temperature dependence in nanomechanics Verena Maier-Kiener, Montanuniversitat Leoben, Austria
	Processing and analyzing micrographs with artificial intelligence Setareh Medghalchi, RWTH Aachen University, Germany
13:00 – 14:00	Lunch (on your own)
15:00 – 16:30	Check-in for Conference (Vis – conference office)
	Session I: Nanomechanics under extreme conditions Chair: Sandra Korte-Kerzel, RWTH Aachen University, Germany
16:30 – 16:40	Conference Welcome Sandra Korte-Kerzel, RWTH Aachen University, Germany Larry Kabacoff, ECI Technical Liaison
16:40 – 17:20	Progress in the development of high strain rate nanoindentation testing George Pharr, Texas A&M University, USA
17:20 – 17:50	In situ micromechanics during hydrogen charging: Effect of diffusible hydrogen on BBC Fe-based alloys and hydrogen protection through hydrogen barrier coatings Maria Jazmin Duarte Correa, MPIE, Germany
17:50 – 18:10	In situ deformation observation via EBSD and EDS during high temperature tensile testing Sebastian Krauss, Carl Zeiss Microscopy GmbH, Germany
18:10 – 18:30	In-situ nanomechanical testing at elevated humidities Igor Zlotnikov, B CUBE, Germany
18:30 – 21:30	Opening Reception and Dinner (Gooshter Beach Club)

Monday, October 3, 2022

07:30 - 09:00	Breakfast buffet
	Session II: Crystal plasticity Chair: Marco Sebastiani, Roma TRE University, Italy
09:00 – 09:40	Keynote On the contribution of nanomechanical testing to the study of Earth mantle deformations Patrick Cordier, University of Lille, France
09:40 – 10:00	Orientation-dependent plastic deformability in micropillar compression of oxide ceramics Hiroshi Masuda, University of Tokyo, Japan
10:00 – 10:30	Solid solution hardening effects on structural evolution and mechanical properties of nanostructured high entropy alloys Karsten Durst, Technical University of Darmstadt, Germany
10:30 – 10:50	Plastic deformation of microsamples: Intermittent dislocation avalanches and their acoustic emission David Ugi, Eötvös Lorand University, Hungary
10:50 – 11:30	Coffee Break
11:30 – 12:00	Plasticity of the C ₁₅ -CaAl ₂ Laves phase at room temperature Carl F. Kusche, RWTH Aachen, Germany
12:00 – 12:20	On the mechanistic origin of the enhanced strength and ductility in rare earth-based Mg alloys Henry Ovri, Helmholtz Zentrum Hereon, Germany
12:20 – 12:50	Orientation, temperature and strain rate effects in deformation twinning of magnesium Xavier Maeder, EMPA, Switzerland
13:00 – 14:30	Lunch
14:30 – 16:30	Networking / Time for ad hoc discussions
	Session II: Crystal plasticity (continued) Chair: Ralph Spolenak, ETH Zurich, Switzerland
16:30 – 16:50	Deformation twinning in Cr₂AlC MAX phase single crystals: A nanomechanical testing study Christophe Tromas, Université de Poitiers, France
16:50 – 17:10	Micromechanical study of a precipitation-hardened dual phase high- entropy alloy Szilvia Kalacska, University of StEtienne, France
17:10 – 17:30	Miniaturization effects on the tensile behavior of multicrystalline and polychristalline nickel-based superalloy: Influence of grain size, free surface and precipitation state Damien Texier, Institut Clément Ader, France

Monday, October 3, 2022 (continued)

17:30 – 17:50	Dislocation mechanisms of toughening in Cu-graphene nanolayered composite Subin Lee, KIT, Germany
17:50 – 18:10	Short Coffee Break
18:10 – 18:30	Plasticity of topologically close-packed phases in the Fe-Ta(-Al) system Christina Gasper, RWTH Aachen, Germany
18:30 – 18:50	Imaging modalities of mechanical microscopy Jeffrey M. Wheeler, FemtoTools AG, Switzerland
19:00 – 20:00	Poster Preview I
20:00 – 21:30	Dinner
21:30 – 23:00	Poster Session I with social period

Tuesday, October 4, 2022

07:30 – 08:30	Breakfast buffet
	Session III: Fracture Chair: Gerhard Dehm, MPIE, Germany
08:30 – 09:00	Tailoring thin-film mechanical fragmentation properties of hybrid atomic/molecular-layer-deposited materials Ivo Utke, EMPA, Switzerland
09:00 - 09:20	Micro-scale damage tolerance studies in ferroelectric barium titanate thin films Nidhin George Mathews, Indian Institute of Technology, Bombay, India
09:20 - 09:40	Fracture properties of CrN hard coatings: Influence of the microstructure, alloying elements, and coating architecture Rainer Hahn, TU Wien, Austria
09:40 – 10:00	Micro-mechanical approach of the intergranular stress corrosion cracking of austenitic stainless steels in PWR environment Rachma Azihari, CEA Sarclay, France
10:00 – 10:20	Size effects in fracture mechanics: A detailed investigation on crack growth at the micro- and mesoscale Jutta Luksch, Saarland University, Germany
10:20 – 11:00	Coffee Break
11:00 – 11:30	Environmental reliability and crack propagation resistance of 3d-printed ALD-coated nano-ceramics Marco Sebastiani, Roma TRE University, Italy
11:30 – 11:50	Fracture behaviour of Ti/TiN multilayer thin film modeling and experimental validation Ashwini Kumar Mishra, Indian Institute of Technology, Bombay, India
11:50 – 12:10	Grain size tailoring of tungsten copper nanocomposites to affect local fracture characteristics Klemens Schmuck, Montanuniversität Leoben, Austria
12:10 – 12:30	Dislocation-based competition of plasticity and cracking in oxides: Understanding and application Xufei Fang, Technical University of Darmstadt, Germany
12:35 – 13:30	Lunch
13:45	Meet up at the front lobby of the hotel for the excursion.
	Buses leave promptly at 13:50
13:50 – 18:00	Excursion

Tuesday, October 4, 2022 (continued)

	<u>Session IV: Biological Materials</u> Chair: Christian Motz, Saarland University, Germany
18:45 – 19:25	Keynote Nanomechanical characterisation of polymer nanotubes for application as 'soft' mechanical interfaces for biology Sohini Kar-Narayan, University of Cambridge, United Kingdom
19:25 – 19:55	Strong, stiff & auxetic - Lessons learned from a fascinating biological material Daniel Kiener, Montanuniversität Leoben, Austria
20:15 – 22:00	Dinner

Wednesday, October 5, 2022

07:30 - 09:00	Breakfast buffet
	Session V: Novel sample geometries and methodical advances Chair: Johann Michler, EMPA Thun, Switzerland
09:00 - 09:30	Optomechanics of small-scale structures Ralph Spolenak, ETH Zürich, Switzerland
09:30 - 09:50	Two photon lithography for synthesis of fracture mechanical specimen Alexander Jelinek, Montanuniversität Leoben, Austria
09:50 – 10:20	High-temperature scanning indentation: A new technique to assess microstrutural changes along thermal ramping Gabrielle Tiphene, École centrale de Lyon, France
10:20 – 10:40	From microlattices to 3d microprinting of multiphase micro-components: Resolution limits and mechanical properties under extreme conditions Johann Michler, EMPA Thun, Switzerland
10:40 – 11:00	Additive micromanufacturing and dynamic characterization of copper microlattices Rajaprakash Ramachandramoorthy, MPIE, Germany
11:00 – 11:30	Coffee Break
	Session VI: In-situ nanomechanical testing Chair: Maria Jazmin Duarte Correa, Max-Planck-Institut für Eisenforschung GmbH, Germany
11:30 – 12:00	In situ 3D mapping of local stress and crystal defect structures during micro-mechanical testing by n3D-XRD-CT Thomas Edwards, EMPA Thun, Switzerland
12:00 – 12:20	Deformation mechanism of cerium oxide nanocubes - an in situ transmission electron microscopy study Karine Masenelli-Varlot, University of Lyon, France
12:20 – 12:40	Deformation mechanisms of hierarchically structured 2D single-crystal materials revealed by real-time high-resolution in-situ nanomechanical testing Tyler Dolmetsch, Florida International University, USA
12:40 – 14:30	Lunch
14:30 – 16:30	Networking / Time for ad hoc discussions
	Session VII: New Methods & Analyses Chair: Gaurav Mohanty, Tampere University, Finland
16:30 – 17:00	Challenges in the phase identification of steels using unsupervised clustering of nanoindentation data Gerhard Dehm, MPIE, Germany

Wednesday, October 5, 2022 (continued)

17:00 – 17:20	Nanoindentation Surface Free Energy measurement over functionalized surfaces and structured substrates Edoardo Rossi, Roma TRE University, Italy
17:20 – 17:40	A mathematical framework for high strain rate nanoindentation testing Sudharshan Phani Pardhasaradhi, ARCI, India
17:40 – 18:00	Short Coffee Break
18:00 – 18:20	Correcting for substrate elasticity contributions in depth-sensing indentation of embedded particles Alejandra Slagter, EPFL, Switzerland
18:20 – 18:40	Mechanics of elastic contact with an interface between adjacent materials Kian Tadayon, TU Dresden, Germany
18:40 – 19:00	In-situ monitoring of the contact area during indentation creep testing Ude Hangen, Bruker BNS, United States
19:00 – 20:00	Poster Preview II
20:00 – 21:30	Dinner
21:30 – 23:00	Poster Session II with social period

Thursday, October 6, 2022

07:30 - 09:00	Breakfast buffet
	<u>Session VIII: Nanomechanics under Complex Stress States</u> Chair: George Pharr, Texas A&M University, USA
09:00 – 09:20	Plasticity in nanoscale friction: Static and dynamic John Pethica, Trinity College Dublin, Ireland
09:20 – 09:40	Brittle to ductile transition in metal/oxide nanolaminates on flexible substrates under uniaxial and biaxial tension Barbara Putz, EMPA Thun, Switzerland
09:40 – 10:00	A new method to measure shear surface mechanical properties Gaylord Guillonneau, University of Lyon, France
10:00 – 10:20	Micro-shear of silicon: Elastic strain analysis using digital image correlation Carmen Maria Lauener, ETH Zürich, Switzerland
10:20 – 10:50	Coffee Break
	Session IX: Grain Boundaries and Phase Transformations Chair: Verena Maier-Kiener, Montanuniversität Leoben, Austria
10:50 – 11:20	On grain boundary migration of a high-angle-grain boundary – Effect of shear stress and energy jump-driving force in micro-bicrystals Christian Motz, Saarland University, Germany
11:20 – 11:40	Phase transformations and local deformation mechanisms - A case study on Cu 20 m.% Sn Lea Lumper, Montanuniversität Leoben, Austria
11:40 – 12:00	Role of grain boundary on the deformation of micropillars Manmath Dash, University of Birmingham, United Kingdom
12:00 – 12:20	The ductility of thin freestanding metallic films investigated by in-situ TEM / AFM nanomechanical testing Benoit Merle, University of Kassel, Germany
12:20 – 12:40	Size-dependent coherent twin boundary strength contribution in Cu micropillars Reza Hosseinabadi, MPIE, Germany
12:40 – 14:30	Lunch
14:30 – 16:30	Networking / Time for ad hoc discussions

Thursday, October 6, 2022 (continued)

	Session X: Amorphous Materials Chairs: Karsten Durst, Technical University of Darmstadt, Germany
16:30 – 17:00	Uncovering exceptional micro-scale plasticity accommodation mechanisms in amorphous aluminum oxide through experimental and simulation results Gaurav Mohanty, Tampere University, Finland
17:00 – 17:20	Electron beam induced softening of fused silica Sebastian Bruns, Technical University of Darmstadt, Germany
17:20 – 17:40	Temperature-dependent dynamic plasticity of micro-scale fused silica Remo Widmer, Alemnis AG, Switzerland
17:40 – 18:00	Fracture propagation in glassy polymers: From nanometer to centimeter Bruno Bresson, ESPCI ParisTech, France
18:00 – 18:20	Short Coffee Break
18:20 – 18:50	Evidence of electron-irradiation activated creep in amorphous olivine at room temperature Guillaume Kermouche, Ecole des Mines de Saint-Etienne, France
18:50 – 19:10	Full-field strain around propagating shear bands and von mises criteria for metallic glasses Olexsandr Glushko, Montanuniversität Leoben, Austria
19:10 – 19:30	Plastic flow and structural heterogeneities in silicate glasses - A high throughput investigation Etienne Barthel, ESPCi Paris / Sorbonne University, France
19:30 – 19:50	Densification of polymer glass film under combined high pressure and shear flow revealed via scanning X-ray microscopy Graham Cross, Trinity College Dublin, Ireland
20:30 – 22:30	Conference Banquet (7 Palms Restaurant)

Friday, October 7, 2022

07:30 – 09:00 Breakfast and Departures

Poster Presentations

1 MecaNano – European network for mechanics of matter at the nano-scale Benoit Merle, University of Kassel, Germany

2 The effect of size, crystal orientation and temperature on the deformation of cast microwires

Luciano Borasi, EPFL, Switzerland

3 Temperature-dependance evalutation on deformation processes in the Alloy 718 using high-resolution digital image correlation

Damien Texier, Institut Clément Ader - UMR CNRS 5312, France

4 Nanoindentation strain rate jump test-based prediction of fracture and the brittle to ductile transition in tungsten

Kevin Schmalbach, University of Minnesota, USA

5 The calibration of nanoindenters revisited

Thomas Chudoba, ASMEC GmbH, Germany

6 Experimental and numerical investigations of nanoindentation properties at the subgrain level in Ni-based and Ti-based polycrystalline alloys

Damien Texier, Institut Clément Ader - UMR CNRS 5312, France

- 7 **Micromechanical characterisation of protein crystals and filamentous microorganisms**Achim Overbeck, Technische Universität Braunschweig, Institute for Particle Technology,
 Germany
- 8 Indentation unloading phase transformations in silicon: A new perspective Gerald Josef Kamillo Schaffar, Montanuniversität Leoben, Austria
- 9 Fast fabrication of micropillar arrays using a combination of laser and FIB for micromechanical compression tests

Fang Zhou, ZEISS Research Microscopy Solutions, Carl Zeiss Microscopy GmbH, Germany

10 Nanoindentation material testing using SMART and SMART CUBES

Dennis Bedorf, SURFACE, Germany

11 Nanomechanical testing of novel conducting 2D composite materials produced by additive manufacturing

Aaron D. Sinnott, Trinity College Dublin, Ireland

12 A novel indentation size effect analysis to quantify material damage for safer nuclear structural health monitoring

Rohit Sharma, Coventry University, United Kingdom

- 13 Nanoindentation-based strength measurements of spherical polymeric micro-samples Edoardo Rossi, Università degli Studi Roma Tre, Italy
- 14 A simple method for pile-up correction by high-speed nanoindentation combined with optical profilometry

Marco Sebastiani, Università degli studi Roma Tre, Italy

15 On the effects of microstructural orientation on fracture toughness in (V,AI)-nitride and -oxynitride thin films

Markus Reiner Schoof, RWTH Aachen University, Germany

16 **WITHDRAWN**

17 Thermal activation of plasticity in BCC materials investigated by cryo-micropillar compression

Carl F. Kusche, RWTH Aachen University, Germany

- 18 Exploring accurate structure, composition and mechanical properties of η carbides in high tungsten iron-based alloy: High-throughput mapping and DFT calculations Yujie Meng, KLA, USA
- 19 Microstructural and mechanical characterization of yarns made from carbon nanotubes for the instrumentation of particle beams at CERN

Ana Teresa Perez Fontenla, CERN, Switzerland

- 20 **Continuous measurement of strain rate sensitivity A novel nanoindentation method** Hendrik Holz, Friedrich-Alexander-Universität Erlangen-Nürnberg, Germany
- 21 **Micropillar compression of anisotropic Al2O3-based eutectic composite** Yuta Aoki, The University of Tokyo, Japan
- 22 **Dislocation and grain boundary interaction in oxides: Slip transmission or cracking?**Kuan Ding, TU Darmstadt, Germany
- 23 Alloy discovery via combinatorial and high-throughput synthesis and mechanical characterization

Adie Alwen, University of Southern California, USA

24 Nano mechanical and microstructural investigation of damage mechanisms in copper wire bonds

Liz Karanja, Centre d'Élaboration de Matériaux et d'Etudes Structurales, France

- 25 Spherical indentation study on incipient plasticity of medium-/high-entropy alloys A-Hyun Jeon, Hanyang University, South Korea
- About the measurement of restoration kinetics in metals using the HTSI method Gabrielle Tiphene, Ecole Centrale de Lyon, France
- 27 Effect of hydrogen on the nanomechanical behavior of dual-phase nanocrystalline high-entropy alloy

Zhe Gao, Hanyang University, South Korea

28 Nanoparticle stabilized thin film metallic glasses

Emese Huszar, Empa, Switzerland

29 Shear-coupling migration of grain boundaries in UFG AI

Marc Legros, CEMES-CNRS, France

30 Effects of radiation damage on the critical resolved shear stresses in zirconium alloys for nuclear applications

James Gibson, University of Oxford, United Kingdom

31 Intrinsic room temperature ductilisation of lean rare-earth free ternary Mg alloys Wassilios Johannes Delis, RWTH Aachen University, Germany

32 Using small-scale mechanics to probe the origins of segregation-induced strengthening

Mohammed Kamran Bhat, Max-Planck-Institut für Eisenforschung GmbH, Germany

- 33 WITHDRAWN
- 34 Mechanical properties and fracture behavior of TiB2+z thin films Anna Hirle, CDL-SEC at TU Wien, Austria
- 35 Comparison of mechanical properties of titanium processed by ECAP: Macro vs. micro Jan Maňák, Institute of Physics of the Czech Academy of Sciences, Czech Republic
- 36 High strain rates micromechanical behavior of materials: A coupled experimental and numerical approach

Benedicte ADOGOU, Ecole des mines de Saint-Etienne, LGF UMR 5307 CNRS, France

- 37 Localization of plastic strain in alloy 718 using digital image correlation
 Malo JULLIEN, Institut Clément Ader UMR CNRS 5312, CEMES-CNRS, France
- 38 **Mechanical properties and deformation mechanisms of manganese sulphide inclusions** Maximilian A. Wollenweber, RWTH Aachen University, Germany
- 39 Mechanical behaviors of agglomerated ceramic powders for cold spraying applications Sergio SAO JOAO, Mines Saint-Etienne, LGF UMR5307 CNRS, France
- Development of a custom high strain rate nanoindenter for small scale mechanical characterization over a wide range of strain rates

 Stefan Zeiler, Friedrich-Alexander-Universität Erlangen-Nürnberg, Germany
- 41 Investigating adhesion of polyimide in semiconductor devices with cross-sectional nanoindentation

Moritz Hartleb, KAI Kompetenzzentrum Automobil- und Industrieelektronik GmbH, Austria

42 Local mechanical response in the vicinity of single grain boundary in YSZ measured by nanoindentation

Ryo Nakamura, The University of Tokyo, Japan

- 43 Nanomechanical behavior of biodegradable metallic glass for transient electrodes Seung-Kyun Kang, Seoul National University, South Korea
- Three-dimensional characterization of damage in dual phase steels with deep learning Setareh Medghalchi, RWTH Aachen University, Germany
- 45 Slip and deformation behavior in intermetallic Cobalt-Samarium phases Tobias Stollenwerk, RWTH Aachen University, Germany
- 46 Nanoindentation induced reversible plasticity detected by acoustic emission Jaroslav Cech, Czech Technical University in Prague, Czech Republic
- 47 **WITHDRAWN**
- 48 Quantitative measurement of stress vs. strain in supported thin films by the layer compression test

Aaron D. Sinnott, Trinity College Dublin, Ireland

- 49 Microshear mechanical properties measurements on tribolayers Fadlallah Abouhadid. Ecole Centrale de Lvon. France
- How do H/E and H3/E2 control coating system wear? Insights gained from elevated temperature nanoindentation, scratch and impact tests

 Ben D. Beake, Micro Materials Ltd, United Kingdom
- Fatigue behavior of gold thin films at elevated temperatures studied by bulge testing Anna Krapf, Friedrich-Alexander-Universität Erlangen-Nürnberg, Germany
- 52 Development of protocols to quantify the twinning stress of a CoCrFeMnNi high entropy alloy

Camila Aguiar Teixeira, Karlsruhe Institute of Technology, Germany

- 53 Measurement of hardness and elastic modulus by depth sensing indentation: Improvements to the technique based on continuous stiffness measurement Warren C. Oliver, KLA, USA
- Plasticity of the CaAl2 phase and its change with Mg addition at room temperature Martina Freund, RWTH Aachen University, Institut für Metallkunde und Materialphysik, Germany
- In-situ micromechanical testing of Su-8 polymer at high strain rates using indentation and micropillar compression

Rahul Cherukuri, Tampere University, Finland

56 High strain rate testing of ultra fine grained aluminium at micro and macro length scales

Aloshious Lambai, Tampere University, Finland

- 57 A geometry for quantitative analysis of interface fracture at the micron scale Eloho Okotete, Karlsruhe Institute of Technology, Germany
- 58 **Mechanical behavior of optimized optical nanomultilayers**Danielle White, University of Southern California, USA
- 59 Development of novel indentation-based stress relaxation tests to study transient plasticity in metals

Suprit Purushottam Bhusare, University of Tampere, Finland

60 Unveiling the mechanisms of motion of synchro-Shockley dislocations in Laves phases

Zhuocheng Xie, RWTH Aachen University, Germany

61 The restructuring of grain boundaries at the surfaces of meals John J. Boland, Trinity College Dublin, Ireland

Engineering Conferences International

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The program has been developed and is overseen by volunteers both on the international Board of Directors and international Conferences Committee. More than 1,900 conferences have taken place to date. The conferences program is administered by a professional staff and the conferences are designed to be self-supporting.

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To serve the engineering/scientific community with international, interdisciplinary, leading edge engineering research conferences

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The advancement of engineering arts and sciences by providing a forum for the discussion of advances in the field of science and engineering for the good of mankind by identification and administration of international interdisciplinary conferences

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To initiate conferences that will have a significant impact on engineering education, research practice and/or development.

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The ECI Conferences Committee invites you to suggest topics and leaders for additional conferences and encourages you to submit a proposal for an ECI conference.

Ideally, proposals should be submitted from 18 to 24 months in advance of the conference although the staff can work on a shorter timeline.

The traditional format for an ECI conference is registration Sunday afternoon with technical sessions held each morning and evening through Thursday or Friday noon. Afternoons are used for informal gatherings, poster sessions, field trips, subgroup meetings and relaxation. This format has served well to build important professional networks in many areas.

ECI welcomes proposals for shorter conferences and for conferences which span weekends in order to reduce the number of working days participants are away from their offices.

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ECI works with conference chairs in two complementary ways. First, an experienced member of the Conferences Committee acts as your technical liaison from the proposal stage through the conference itself. He or she is always available to consult with you on any conference issue.

Second, after your proposal has been approved by the Conferences Committee, the ECI staff will assume responsibility for the administration of the conference.

Your primary responsibilities will be recruiting the organizing committee, developing the technical program and securing third-party funding necessary to support the travel of key speakers.

The responsibilities of ECI's "full service" staff include -- but are not limited to -- the following:

- Recommend, negotiate, contract and make substantial deposits for housing, meals, meeting space, A/V equipment and tours.
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- Administer all finances including grants, contributions and purchase orders. (ECI makes
 grant funds available as soon as a grant is approved.) There is no need for chairs to set up a
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- Contract for the publication of print or electronic proceedings, if any.
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For more information, please contact the ECI Director at Barbara@engconfintl.org