

Monday, May 25, 2026

7:30-9:00	Registration (MDCL Lobby)								
9:00-9:30	Conference Opening (MDCL 1305)								
9:30-10:30	Smith Award Plenary (MDCL 1305): David Srolovitz Symmetry, Structure and Stress Effects on Grain Boundary Migration and Microstructure Evolution								
10:30-10:50	Coffee Break								
	Recrystallization I (MDCL 1102)			Grain Growth I (MDCL 1105)			Experimental Techniques I (MDCL 1110)		
10:50-11:20	Knut	Marthinsen	Invited: Recrystallization behaviour during extrusion of aluminium alloys	Greg	Rohrer	Invited: The influence of grain boundary energy anisotropy on grain boundary migration	Mikael	Malmstrom	Invited: Laser ultrasonics for microstructure monitoring ex situ and in situ in the metal industry
11:20-11:40	Thomas	Mineau	EBSD in-situ experiments to unravel feedbacks between microstructure, dynamic recrystallization, and mechanical behaviour in AZ31 Mg alloy	Andrej	Ostapovec	Shear-Coupled Migration of Grain Boundaries: Analysis of Approaches to Coupling Factor Prediction.	Grünsteidl	Clemens	Determining the stiffness tensor of FCC-iron at elevated temperatures by observing abnormal grain growth
11:40-12:00	Moritz	Theissing	Investigating Recrystallization Phenomena in Wrought Aluminum Alloys	Jing	Tang	Shear-coupled grain boundary migration induces gradients in grain growth kinetics	Roonak	Khamooshian	In-Situ Laser Ultrasonic Monitoring and Computational Modeling of Grain Growth in Case hardening steel
12:00-12:20	Mark	Taylor	The Origin of Dislocation Density During the Austenite Memory Effect Low-Alloy Steels Studied Using In-Situ EBSD and Synchrotron XRD	Oliver	Renk	Grain growth is shear-coupled grain boundary migration	Minghui	Lin	Quantification of austenite recrystallization kinetics from laser ultrasonics measurements
12:20-13:30	Lunch								
	Recrystallization II (MDCL 1102)			Industrial Applications I (MDCL 1105)			Modelling & Simulations I (MDCL 1110)		
13:30-14:00	Erik	Offerman	Invited: Nucleation during static recrystallization of austenite: an alternative nucleation criterion	Michael	Fahrmann	Invited: Abnormal grain growth in polycrystalline Ni-base superalloys – an industry perspective	Chuang	Deng	Invited: Grain boundary segregation prediction in nanocrystalline metals with solute-solute interactions
14:00-14:20	Hugo	Latuner	Recrystallization mechanisms activated during single and multi-pass forging of austenitic stainless steels	Mahesh	Somani	Static recrystallization characteristics and kinetics of austenitic stainless steels amenable for TMCP for high strength LH2 storage applications	Tianchi	Li	High-Fidelity Modeling of Polycrystalline Grain Growth
14:20-14:40	Evgueni	Poliak	Revisiting Mechanical Manifestations of Discontinuous Dynamic Recrystallization Occurring in Hot Deformation of Austenite	Cécile	Rampelberg	Impact of B and Ti on the Mechanical Properties and Recrystallization Behaviour of Low Carbon HR and CR Batch Annealed HSLA Steels	Fotios	Tsoliis	Modelling Recrystallization Textures in Particle-Containing Aluminium Alloys:
14:40-15:00	Satoshi	Motozuka	Formation Process of Recrystallization Texture on Flake Powder of Iron-based Soft Magnetic Materials using Ball Milling Treatment	Toshio	Ogawa	Evaluation of microstructural evolution and tensile properties in tempered martensite and cold-rolled and annealed martensite steels	Pungponhavoan	TEP	High-Fidelity Grain Growth Modeling: Leveraging Deep Learning for Fast Computations
15:00-15:20	Kyeongjae	Jeong	Athermal Recrystallization and Phase Transformation under Electric Current in Metals	Tihe Tom	Zhou	Study of Microstructure Evolution and Mechanical Properties of High Strength Low Alloy Steels during Batch Annealing Process.	Jun	Song	A unified non-planar dislocation mediated micro-twinning nucleation and growth mechanism in Ni-based superalloys
15:20-15:40	Coffee Break								
15:40-16:40	Plenary (MDCL 1305): Roland Logé 3D Microstructure Design in Additive Manufacturing								
	Electrical Steels I (MDCL 1102)			Industrial Applications II (MDCL 1105)			Role of Residual Elements I (MDCL 1110)		
16:40-17:00	Taner	Ozdal	Quantitative Assessment of Texture, Microstructure, and Magnetic Properties of Grain Oriented Electrical Steels	Hamza Sofiane	Meddas	Effect of prior cold deformation on grain growth and on the kinetics of austenite formation during heating	Jiaqi	Duan	Assessing the solute drag of scrap residual elements of Sn and Cu in austenite
17:00-17:20	Ning	Zhang	Study on the recrystallization and grain growth behaviors of ultrathin non-oriented silicon steel prepared by planar flow casting	Feiyu	Zhao	Influence of prior austenite grain size on crystallographic variant selection and mechanical properties of Al-containing carbide-free bainitic steel	Carl	Slater	Microstructural Forsite- Removing fitting parameters to make a fast 3D recrystallisation model with a focus on residuals in steels.
17:30-18:30	Optional Campus Tours								
19:00-21:00	Conference Reception (University Club)								

Tuesday, May 26, 2026

8:00-9:00	Registration (MDCL Lobby)								
9:00-10:00	Plenary (MDCL 1305): Leo Kestens In memory of John J Jonas: a lifetime dedicated to microstructurally based metal science								
10:00-10:20	Coffee Break								
	John Jonas Symposium I (MDCL 1102)			Grain Growth II (MDCL 1105)			Experimental Techniques II (MDCL 1110)		
10:20-10:50	YouLiang	He	Invited: Orientation Relationships: From Meteorite, Steel to Titanium	Carl E.	Krill III	Invited: Vacancy-mediated extreme abnormal grain growth in inert gas-condensed nanocrystalline Pd-Au	Fred	Gaidies	Invited: Size-dependent crystal growth in geological materials
10:50-11:10	Laszlo	Toth	Invited: Modeling of textures due to dynamic recrystallization in torsion of copper – revisiting the approach of Toth-Jonas 1992	Marcel	Chlupsa	Origins and evolution of stored strain energy during abnormal grain growth of CuAlMn	Nicholas	Lucas	Grain growth and recrystallization in geological materials
11:10-11:30				André	Schulz-Harder	Tracking the Emergence and Persistence of Abnormal Grain Growth in an Aluminum Alloy using 3D X-Ray Microscopy	Evgueni	Poliak	Application of Confocal Microscopy to Evaluate Austenite Grain Growth and Recrystallization in Advanced High Strength Steels
11:30-11:50	Brigitte	Bacroix	Invited: Mechanical and microstructural characteristics of the main texture components obtained in rolling in Grain-Oriented Electrical Steels	Kerui	Song	Texture evolution through oriented growth and abnormal grain growth in a FeMnAlNi shape memory alloy	Eric	Taleff	Differentiating between recovery and recrystallization using combined backscatter electron imaging
11:50-12:10				Caihao	Qiu	Revisiting Grain Growth: The Impact of Internal Stress on Grain Boundary Migration	Minyu	Tseng	Austenite Formation and Grain Growth in As-Cast Line Pipe Steels
12:10-13:30	Lunch								
	John Jonas Symposium II (MDCL 1102)			Electrical Steels II (MDCL 1105)			Modelling & Simulations II (MDCL 1110)		
13:30-14:00	Dengqi	Bai	Invited: Importance of Three Critical Temperatures during Plate Steel Production	Pello	Uranga	Invited: Softening Kinetics and Recrystallization Behavior in Hot-Deformed Fe-Si Electrical Steels with High Silicon Content	Vsevolod	Razumovskiy	Invited: Multiscale Modelling of Interface Segregation in Steel
14:00-14:20	Matthew	Barnett	Invited: High Strength Cold Rolled Microalloyed Steels	Shohta	Morimoto	Effect of Primary Recrystallized Grain Size and Texture on Secondary Recrystallization Orientations in Lightly Cold-rolled Fe-Si Alloys	Aiden	Ha	A phase-field model of the development of abnormally coarse-grained structures during β -annealing of Ti-64
14:20-14:40				Tuan	Nguyen-Minh	Orientation dependence of the energy stored in BCC structured materials after conventional cold rolling	Shuma	Ohga	Parameter Estimation for Multi-phase-field models of Grain Growth in a Metallic Thin Film using Non-sequential Bayesian Data Assimilation
14:40-15:00	Weiping	Sun	Invited: Recrystallization-Controlled Process for Galvanizing	Kyung-Jun	Ko	Effect of Pre-strain and High-Temperature Annealing on the Microstructure and Texture control of Grain-Oriented Si Steel	Akinori	Yamanaka	Data-driven Multi-phase-field Simulation of Static Recrystallization in Aluminum Alloy using in-situ EBSD observation and Bayesian Data Assimilation
15:00-15:20				Huiping	Ren	Exploration of grain oriented electrical steel using copper precipitation particles as the sole inhibitor to induce abnormal grain growth	Amine	Kli	Atomistic and mesoscale investigations of grain boundary migration in the presence of nanoscale precipitates
15:20-15:40	Coffee Break								
15:40-16:40	Plenary (MDCL 1305): Eugen Rabkin Plasticity, Recovery, and Recrystallization in Supported Metal Nanoparticles								
17:00-19:00	Poster Session (MDCL Lobby)								
18:00-19:00	Optional Campus Tours								

Wednesday, May 27, 2026

8:00-9:00	Registration (MDCL Lobby)								
9:00-10:00	Plenary (MDCL 1305): Elizabeth Holm Can we predict grain growth?								
10:00-10:20	Coffee Break								
	Recrystallization III (MDCL 1102)			Grain Growth III (MDCL 1105)			Experimental Techniques III (MDCL 1110)		
10:20-10:50	Dorte	Juul Jensen	Invited: Effects of Deformation Microstructure Morphology on Recrystallization	Dikai	Guan	Invited: 4D grain growth evolution and statistical tracking in a magnesium alloy using lab-based diffraction contrast tomography	Amanda	Krause	Invited: Capturing Abnormal Grain Growth with 3D X-ray Diffraction Microscopy
10:50-11:10	Yusuke	Onuki	Pseudo-Superplastic Deformation Assisted by Dynamic Recrystallization in AZX612 Magnesium Alloy	Hailey	Hall	Grain Growth in Textured and Untextured Alumina	Ruth	Birch	3D analysis of variants at a prior austenite grain (PAG) twin boundary in steel
11:10-11:30	Javier	Miranda	Hot Deformation of a Ti-Al-V-Fe Alloy in the β -Phase Field	Eisuke	Miyoshi	Triple-junction drag effects on two- and three-dimensional grain growth kinetics: A phase-field investigation	Lucia	Puertas Pelaez	Multimodal 3D X-Ray Imaging of Grain Boundary Migration at Triple Junctions
11:30-11:50	Daisuke	Adachi	Continuous and Discontinuous Recrystallization in Pearlite: Effects of Initial Microstructure and Cementite as a Second Phase	Eric	Taleff	The effect of subgrains on dynamic grain growth in BCC metals during high-temperature deformation	Mario	Heinig	Time-Resolved 4D Study of Grain Growth in Armco Iron using LabDCT: Tracking Microstructural Evolution in 3D
11:50-12:10	Ali	Amininejad	Dual role of texture evolution in grain refinement during severe plastic deformation: fragmentation vs coalescence	Varun Srinivas	Venkatesh	Learning grain growth from experimental datasets using topology-aware graph neural networks	Mehdi	Mosayebi	Benchmarking Non-Destructive 3D Grain Mapping for Recrystallized and Cast Microstructures:
12:10-13:30	Lunch								
14:00-20:00	Optional: Niagara Falls Excursion (Buses at the University Centre Entrance) Optional: Campus Tours								

Thursday, May 28, 2026

8:00-9:00	Registration (MDCL Lobby)								
9:00-10:00	Plenary (MDCL 1305): Hardy Mohrbacher								
10:00-10:20	Application of Microalloying for Controlling Recrystallization and Grain Growth During Downstream Steel Processing								
	Coffee Break								
	Recrystallization IV (MDCL 1102)			Grain Growth IV (MDCL 1105)			Experimental Techniques IV (MDCL 1110)		
10:20-10:50	Heung Nam	Han	Invited: An integrated numerical modeling framework for predicting anisotropy and formability of recrystallized metals	Wanquan	Zhu	Invited: Comparative five-parameter grain boundary character analysis of as-deposited and annealed nanocrystalline nickel	Anthony	Rollett	Invited: Novel Quantification of Non-convex Grain Morphology in Printed Ti-6Al-4V
10:50-11:10	Katariina	Lehtola	The Effect of Niobium in Low-Carbon, Low-Alloyed Steel Recrystallization Kinetics	Dmitri	Molodov	Gradual changing grain boundary character and forming lattice curvature near the boundary during deformation of magnesium	Can	YILDIRIM	From Deformation to Grain Growth: Time-Resolved Multiscale Diffraction Imaging with Pink-Beam DFXM
11:10-11:30	Gaeun	Song	Effects of Solute Atoms on Recrystallization Behavior of Platinum Alloys	Giuseppe	Abbruzzese	The Influence of Grain Boundary Energies and Mobility on Texture Selection in GOES	Vuk	Manojlović	High-Throughput Mapping of Dislocation Recovery in Low-Carbon Graded Alloys via In Situ HEXRD
11:30-11:50	Jack	Mogus	Cold Spray Deposition of Titanium and Thermal Stability of TiC-Reinforced Aluminum Powders: A Microstructural Study	Bevis	Hutchinson	Grain boundary curvature and Zener pinning	Erik	Lauridsen	3D Grain Mapping of Annealing Microstructures Using Laboratory Diffraction Contrast Tomograph
11:50-12:10	Andras	Borbely	In situ recrystallization study of two Zr-2.5wt.%Nb alloys with different initial strains	Anqi	Qiu	Mechanisms of shape evolution and rotation during crystal growth in cylindrical grains	Johannes	Neumüller	In-Situ Investigation of Precipitation and Grain Growth in Alloy 718 by High-Temperature Synchrotron Experiments
12:10-13:30	Lunch								
	Recrystallization V (MDCL 1102)			Industrial Applications III (MDCL 1105)			Modelling & Simulations III (MDCL 1110)		
13:30-14:00	Victoria	Miller	Invited: Controlling grain size extrema in a Ni base superalloy using heteroepitaxial recrystallization	Marie	Chapagne	Invited: Three pathways to grain boundary engineering in Additive Manufactured alloys	Daniel	Scheiber	Invited: Multi-scale solute drag modelling & experimental validation of recrystallization & grain growth in steels
14:00-14:20	Nobuo	Nakada	Static Austenite Recrystallization and Annealing Twin Formation Triggered by Martensitic Reversion in Super Invar Cast Alloy	Tianbo	Yu	Recovery and recrystallization of stainless steel 316L produced by laser powder bed fusion	Ronan	Jacolot	Modelling of microstructural evolution during hot rolling and applications
14:20-14:40	Hanqing	Che	Competition between precipitation and recrystallization during heat treatment of gradient-structured Inconel 718 superalloy	Alec	Davis	Recrystallisation Phenomena in High-Deposition-Rate Additively Manufactured Titanium Alloys	Shabnam	Fadaei Chatroudi	A Novel Mean-Field Model of Microstructure Evolution of Microalloyed Steels During Thermomechanical Processing
14:40-15:00	Natalia	Rojas-Londono	Characterization of dynamic recrystallization occurring at high strain rates in Inconel 718	Sabyasachi	Roy	Recrystallization and Austenite Grain Evolution during Hot Rolling Simulation by Torsion Testing	Pauline	Hahn	Characterization and Modelling of Zr-Nb Alloys Post-Dynamic Recrystallization:
15:00-15:20	Haruka	Katayama	Temperature-dependent phase separation behavior in equiatomic TiZrNbTaMo high-entropy alloy	Charles	Entoe	Development of Cold-Rolled, Hot-Dip Galvanized HSLA Steel with 550 MPa Minimum Yield Strength	Hao	Zhang	String-Like Cooperative Atomic Motion Governing the Martensitic α - β Transition in Titanium
15:20-15:40	Coffee Break								
15:40-16:40	Plenary (MDCL 1305): Stefan Zaeferrer								
	Crystal defect observation in bulk samples via EBSD and ECCI, coupled with machine-learning data analysis								
	Electrical Steels III (MDCL 1102)			Industrial Applications IV (MDCL 1105)			Role of Residual Elements II (MDCL 1110)		
16:40-17:00	Naoki	Wada	Selective Growth Mechanism of {100}001 Grains in Secondary Recrystallization of Fe-3%Si steel	Joao	Quinta da Fonseca	Abnormal Grain Growth during Beta Annealing of Hot Worked Ti64	Paul	Gawes	Effect of tramp elements on the austenite recrystallization in a Nb-micro-alloyed steel
17:00-17:20	Yoshiyuki	Ushigami	Coincidence Site Lattice (CSL) Grain Boundaries and Selective Growth of Secondary Recrystallized Grains in Fe-Si alloys	Lucas	Cook	Comparing recrystallized microstructures and mechanical properties of titanium wire produced from various recycled feedstocks via continuous extrusion	Jieon	Park	Effect of Si and Cu addition on the texture of ferritic stainless steels
17:20-17:40	Weimin	Mao	Formation mechanism of strong Goss texture in grain oriented electrical steels	Caio de Paula	Camargo Pisano	Recrystallization and Texture Evolution of a Hot Rolled Nb Bearing Ferritic Stainless Steel	Pedram	Dastur	Austenite recrystallisation in steels - the effects of residual elements Cu / Sn and prior partial recrystallisation
18:00-19:00	Optional Campus Tours								
19:00-21:00	Conference Banquet (CIBC Hall, 3rd Floor of the University Centre)								

Friday, May 29, 2026

Plenary (MDCL 1305): Xiuyan Li									
Strengthening NiMo alloy with high density of interfaces of negative-excess-energy									
Coffee Break									
Recrystallization VI (MDCL 1102)			Grain Growth V (MDCL 1105)			Experimental Techniques V (MDCL 1110)			
10:30-11:00	ShiHoon	Choi	Invited: Self-Annealing and Recrystallization in Cryogenically Deformed Copper Alloys.			Hossein	Beladi	Invited: $\Sigma 9$ Boundary Plane Orientation	
11:00-11:20	Hisashi	Sato	Recrystallization behavior by heat treatment for shot-peened pure Fe sheet and its magnetic property			Ryota	Nagashima	Variant selection of grain boundary precipitation and its effect on grain boundary coverage in Ni-Cr alloy	
11:20-11:40	Zackery	Thune	Recrystallization and Grain Growth in Texturally Banded High Purity Niobium Sheet After Axisymmetric Deep-Drawing into a Superconducting Cavity Half-Cell			Madhumanti	Bhattacharyya	Understanding Grain Growth Phenomenon in a High Manganese Steel	
11:40-12:00	Zhang-Zhi	Shi	Zn-0.8Mn alloy for degradable structural applications:			Mehmet Can	Dursun	Multi-scale characterization of $\Sigma 3$ grain boundaries to elucidate abnormal grain growth in Ni	
12:00-12:20	Donghwi	Kim	Effect of Solute Concentration Gradient and Cold Rolling Reduction Rate on Recrystallization and Texture Evolution in Ultra-Low Carbon Steel			Louis	Lesage	Dislocation dynamics during grain growth in Aluminium	
12:30-12:50	Closing Remarks (MDCL 1305)								
13:30-15:30	Optional Campus Tours								

Takehito Seki
Invited: Entropy-Stabilized Dynamic Grain-Boundary Structure Revealed by Magnetic-Field-Free STEM

Aditya Shukla
Investigation the onset of recrystallization in cold-rolled α -iron using Scanning three-dimensional X-ray diffraction and texture

Michael Mayer
Linking Processing, Microstructure, and Flow Behavior in C43 Steel through Uncertainty-Aware Recrystallization Modeling

Takaaki Tanaka
Evaluation of Orientation Dependent Dislocation Density in Cold Rolled Pure Iron

Estefania Sepulveda Hernandez
Orientation-resolved stored energy mapping by Misorientation Gradient in IF steel manufactured through different thermomechanical routes

Poster Session, May 26, 2026

Anish	Karmakar	Role of Cerium in Controlling Deformation and Softening Behavior of Low-Carbon Steels
Sunggu	Choi	Texture Evolution and Recrystallization Behavior of Mg–Ag Alloys during Plane Strain Compression
Daniel	Dickes	Abnormal surface grain growth in tungsten during fusion-relevant heat flux exposure
Jinseok	Yeom	Effect of Zener-Hollomon parameter on Microstructure and Texture Development Behavior in Mg-Pb magnesium alloys
Seongmo	Jang	Influence of Pb addition on the microstructure and texture development of magnesium alloys
Jeongbin	Park	Effect of Ag Addition on Microstructure and Texture Evolution during High-Temperature Plane-Strain Compression
Kensuke	Morimiya	Improvement of Bending Formability of AZX612 Mg Alloy by Shot Peening and Heat Treatment
Timo	Brederode	The Effect of Impurities on Static Recrystallization of Austenite in Steel
Andreas	Rechberger	Monitoring the recrystallization of a 3rd Gen Advanced High-Strength Steels (AHSS) with Laser-Ultrasonics
Jimin	Yun	Solute Ag Effects on Microstructure and Texture Development in Mg Alloys
Benedek	Sziklai	Thermal stability of ultrafine grained FALEP processed Al1050 alloy
Clemens	Grünsteidl	Laser-Ultrasound for In-Situ Monitoring of Microstructural Changes in Metals
Varun Srinivas	Venkatesh	A graph-based approach for tracking grains in time-resolved 2D/3D microstructural datasets
Oliver	Petry	Grain boundary hardening vs softening in Nanocrystalline CuZn30
Yiming	Li	Texture simulation of cold rolled industrial pure zirconium by RS model
Zi-Lin	Li	Novel Mg-Ga-Li alloys