Room: North Hall

09:50 AM	10:20 AM	Coffee break	Forum Hall Foyer 2
		Symposium G - Tuesday Morning / 10:20 AM-12:10 PM	Chair: Thomas Hammerschmidt
10:20 AM	10:50 AM	Keynote Lecture: Active materials exploration and characterization with Bayesian optimization	Patrick Rinke
10:50 AM	11:10 AM	Bayesian blacksmithing: Discovering thermomechanical properties and deformation mechanisms in high-entropy refractory alloys	Remi Dingreville
11:10 AM	11:30 AM	Hybrid computational approach to optimization of competing properties of multicomponent alloys	Oleg Peil
11:30 AM	11:50 AM	Bayesian optimization accelerates material discovery of bio-based foams to replace plastics	Isaac Miranda Valdez
11:50 AM	12:10 PM	CANCELLED	Silvia Bonfanti
12:10 PM	01:10 PM	Lunch	Forum Hall Foyer 2
		Symposium G - Tuesday Afternoon / 01:10 PM-03:00 PM	Chair: Patrick Rinke
01:10 PM	01:40 PM	Keynote Lecture: Digital twins for materials science	Surya Kalidindi
01:40 PM	02:00 PM	Efficient Microstructure Optimization in Ceramic Materials by Combining Microstructure Simulations and Machine Learning	Simon Pirkelmann
02:00 PM	02:20 PM	Active Learning Approach for Efficient Creation of a Surrogate Model for Crystal Growth	Lorenz Taucher
02:20 PM	02:40 PM	Novel aspects of deep learning in microstructure-property prediction for elastic homogenization	Bernhard Eidel
02:40 PM	03:00 PM	Machine learning toolkit for predicting fatigue life of structural materials trained by high- throughput micromechanical modelling	Napat Vajragupta
03:00 PM	03:30 PM	Coffee break	Forum Hall Foyer 2
		Symposium G - Tuesday Afternoon / 03:30 PM-05:20 PM	Chair: Napat Vajragupta
03:30 PM	03:50 PM	Training physics-based neural network surrogate models with the finite element method	Pranav Sunil
03:50 PM	04:10 PM	Descriptors of Surface Energy Based on the Crystal Structure	Yoyo Hinuma
04:10 PM	04:30 PM	A machine learning perspective on the inverse indentation problem	Quan Jiao
04:30 PM	04:50 PM	Persistent Homology for Microstructure Manifold Construction	Simon Mason
04:50 PM	05:10 PM	Success Stories in Computationally-Driven Materials Discovery	Corey Oses
05:10 PM	05:20 PM	Prediction of alloy plasticity fusing textual corpus and physical information: Information density enhancement and knowledge extraction based on MatSciBERT	Zhouran Zhang
05:20 PM	07:20 PM	Poster Session 1	Forum Hall Foyer 3
07:20 PM	07:40 PM	Poster Award Ceremony	Chamber Hall

Room: Terrace 2A

09:50 AM	10:20 AM	Coffee break	Forum Hall Foyer 2
		Symposium I - Tuesday Morning / 10:20 AM-12:10 PM	Chair: David Srolovitz
10:20 AM	10:50 AM	Keynote Lecture: Unraveling mechanics of grain boundary migration from atomistic to continuum scales	Brandon Runnels
10:50 AM	11:10 AM	Modelling the effects of internal stress on microstructure evolution at the meso-scale	Qiu Caihao
11:10 AM	11:30 AM	(Non)linear elastic fields of interfacial (disclination) and bulk (dislocation) line defects	Amit Acharya
11:30 AM	11:50 AM	Extended phase-field crystal models	Maik Punke
11:50 AM	12:10 PM	Dynamics of height fluctuations for two-dimensional materials	Tapio Ala-Nissila
12:10 PM	01:10 PM	Lunch	Forum Hall Foyer 2
		Symposium I - Tuesday Afternoon / 01:10 PM-03:00 PM	Chair: Brandon Runnels
01:10 PM	01:40 PM	Keynote Lecture: The enumeration of grain boundary microstates	Nikhil Chandra Admal
01:40 PM	02:00 PM	Interface energy and structure anisotropy of coherent heterophase interfaces	Christian Brandl
02:00 PM	02:20 PM	Characterization of the stability of metal/metal interfaces by atomistic simulations	Reyhaneh Ghassemizadeh
02:20 PM	02:40 PM	Interface Mobility and Twin Formation in NiTi Shape Memory Alloys	Lorenzo La Rosa
02:40 PM	03:00 PM	Multiscale multiphysics model for redistribution of hydrogen within steel microstructure during martensitic transformation	Christian Posch- Peperkorn
03:00 PM	03:30 PM	Coffee break	Forum Hall Foyer 2
		Symposium I - Tuesday Afternoon / 03:30 PM-05:20 PM	Chair: Nikhil Chandra Admal
03:30 PM	03:50 PM	Coupled-growth dynamics of lamellar patterns in eutectic grains with a crystallographic mosaicity	Silvere Akamatsu
03:50 PM	04:10 PM	Multiscale characterization of nonclassical crystallization pathways for trans-stilbenes	Tesia Janicki
04:10 PM	04:30 PM	Micro-scale model for the onset of freezing in a porous medium	Michal Beneš
04:30 PM	04:50 PM	Surface-induced warping in nanowires	Jean-Marc Roussel
04:50 PM	05:10 PM	Structural transitions at emergent grain boundaries in strained thin films	Moneesh Upmanyu
05:20 PM	07:20 PM	Poster Session 1	Forum Hall Foyer 3
07:20 PM	07:40 PM	Poster Award Ceremony	Chamber Hall

Room: Terrace 2B

09:50 AM	10:20 AM	Coffee break	Forum Hall Foyer 2
		Symposium M - Tuesday Morning / 10:20 AM-12:10 PM	Chair: Maxime Vassaux
10:20 AM	10:50 AM	Keynote Lecture: Lagrangian Heterogeneous Multiscale Modelling of Complex Fluids	Marco Ellero
10:50 AM	11:10 AM	Synchronized molecular dynamics simulation using LAMMPS: an application to the pressure-driven flows of polymer melts	Kotaro Oda
11:10 AM	11:30 AM	Synchronized molecular-dynamics simulation via lubrication approximation: Method validation testing and applications	Shugo Yasuda
11:30 AM	11:50 AM	Quantum-inspired encoding enhances stochastic sampling of soft matter systems	Francesco Slongo
11:50 AM	12:10 PM	Network Formation in Dual-Cure Resins for Direct Ink Write Carbon Fiber Composites	Michael Chandross
12:10 PM	01:10 PM	Lunch	Forum Hall Foyer 2
		Symposium M - Tuesday Afternoon / 01:10 PM-03:00 PM	Chair: Felix Weber
01:10 PM	01:30 PM	Molecular dynamics simulations of the interaction of energetic atomic oxygen with carbon nanotube based composites	Chaitanya Deo
01:30 PM	01:50 PM	Ice Formation in the Presence of Hydrogels	Dilip Gersappe
01:50 PM	02:10 PM	Controlling ice formation: an ab initio guided modeling framework of cellulose in water	Aakash Kumar
02:10 PM	02:30 PM	Enhanced adhesion of epoxy resin and silane-treated aluminum by H2O-assisted proton shift	Shuji Ogata
02:30 PM	02:50 PM	Multi-Physics Simulation Analysis of the Gelation Process in Rechargeable Battery Electrolytes through Electron Beam Irradiation	Woojien Lee
02:50 PM	03:00 PM	CANCELLED	Alexander Chervanyov
03:00 PM	03:30 PM	Coffee break	Forum Hall Foyer 2
		Symposium D - Tuesday Afternoon / 03:30 PM-05:20 PM	Chair: Thomas Schrefl
03:30 PM	03:50 PM	Microstructure Mechanism for Modifying the Mechanoelectrical Behavior of Polymer-Metal Composites	Min Zhou
03:50 PM	04:10 PM	Molecular Simulation-guided and Physics-informed Constitutive Modeling of Highly Stretchable Polymers with Dynamic Ionic Bonds	Hua Yang
04:10 PM	04:30 PM	In-silico study on Electroelastic Properties of Hexagonal Boron Nitride Nanosheet: combined effect of vacancy structure and temperature	Jaewon Lee
04:30 PM	04:50 PM	Modelling the effect of the grain boundary distribution, and connectivity on the diffusion of hydrogen in nickel microstructures	Jamaa Bouhattate
04:50 PM	05:10 PM	-	-
05:20 PM	07:20 PM	Poster Session 1	Forum Hall Foyer 3
07:20 PM	07:40 PM	Poster Award Ceremony	Chamber Hall

Room: South Hall 2A

09:50 AM	10:20 AM	Coffee break	Forum Hall Foyer 2
		Symposium K - Tuesday Morning / 10:20 AM-12:10 PM	Chair: Jan Wróbel
10:20 AM	10:50 AM	Keynote Lecture: Neural network of defect kinetics for multi-principal element alloys	Penghui Cao
10:50 AM	11:10 AM	Large-scale atomistic modelling of high-entropy alloys with machine-learned potentials	Jesper Byggmästar
11:10 AM	11:30 AM	Deep Potential-Based Large Atomic Models and Evaluation Workflow in the Field of Alloys	Jiawei Huang
11:30 AM	11:50 AM	A machine learning interatomic potential for high entropy alloys	Teng Li
11:50 AM	12:10 PM	-	-
12:10 PM	01:10 PM	Lunch	Forum Hall Foyer 2
		Symposium K - Tuesday Afternoon / 01:10 PM-03:00 PM	Chair: Jörg Neugebauer
01:10 PM	01:40 PM	Keynote Lecture: Nonequilibrium chemical short-range order in metallic alloys	Rodrigo Freitas
01:40 PM	02:00 PM	Thermodynamics and kinetics of long-range ordering in FCC Ni-Cr-Fe alloys: insights from atomic scale modeling	Liangzhao Huang
02:00 PM	02:20 PM	Molecular Dynamics simulations of deformation-induced mixing of a CoFeNi powder blend	Marie Charrier
02:20 PM	02:40 PM	Phase-Field Modeling of Dislocations in High Entropy Alloys	Xin Liu
02:40 PM	03:00 PM	-	-
03:00 PM	03:30 PM	Coffee break	Forum Hall Foyer 2
		Symposium K - Tuesday Afternoon / 03:30 PM-05:20 PM	Chair: Mikko Alava
03:30 PM	04:00 PM	Keynote Lecture: Computational microstructural engineering for multi-phase HEAs	Yunzhi Wang
04:00 PM	04:20 PM	CANCELLED	Stefan Hiemer
04:20 PM	04:40 PM	-	-
04:40 PM	05:00 PM	-	-
05:00 PM	05:20 PM	-	-
05:20 PM	07:20 PM	Poster Session 1	Forum Hall Foyer 3
07:20 PM	07:40 PM	Poster Award Ceremony	Chamber Hall

Room: South Hall 2B

09:50 AM	10:20 AM	Coffee break	Forum Hall Foyer 2
		Symposium A - Tuesday Morning / 10:20 AM-12:10 PM	Chair: David Holec
10:20 AM	10:50 AM	Keynote Lecture: Point defect induced omega phase fluctuations in bcc Ti and Zr	Celine Varvenne
10:50 AM	11:10 AM	The impact of spin-polarization, atomic ordering and charge transfer on the stability of medium-entropy CoCrNi alloy	Pavel Papež
11:10 AM	11:30 AM	Quantum-mechanical study of phonon contributions to stability of Pb-Sn alloys	Petr Čípek
11:30 AM	11:50 AM	Metastable defect phase diagrams as roadmap to tailor chemically driven defect formation	Ali Tehranchi
11:50 AM	12:10 PM	Materials properties of defect-stabilized off-stoichiometric T-phase Al2Ge2Mg	Martin Friak
12:10 PM	01:10 PM	Lunch	Forum Hall Foyer 2
		Symposium A - Tuesday Afternoon / 01:10 PM-03:00 PM	Chair: Ali Tehranchi
01:10 PM	01:40 PM	Keynote Lecture: Stability and magnetic properties of grain boundaries in the inverse Heusler phase Fe2CoGa and in bcc Fe	Daniel Urban
01:40 PM	02:00 PM	Segregation to grain boundaries in disordered systems: an application to a Ni-based superalloy	David Holec
02:00 PM	02:20 PM	Revisiting the nucleation mechanism of the GP zones and precipitates in AI-Zn-Mg alloy	Liu Sha
02:20 PM	02:40 PM	Insight into the decomposition of cubic Ti1-xAlxN by activation energy and vacancy formation envelopes	Ganesh K Nayak
02:40 PM	03:00 PM	Exploring the γ/γ'' interfaces in Ni-based superalloy: a systematic first-principles study	Ziyi Xiong
03:00 PM	03:30 PM	Coffee break	Forum Hall Foyer 2
		Symposium A - Tuesday Afternoon / 03:30 PM-05:20 PM	Chair: Daniel Urban
03:30 PM	03:50 PM	First-principles study of the vacancy-enhanced formation of deformation twins in Cu-In alloys	Eun-Ae Choi
03:50 PM	04:10 PM	First-Principles Calculation Aided Design of High-Strength Cu-Ni-Si Alloy with Grain Boundary Phases	Seung Zeon Han
04:10 PM	04:40 PM	Keynote Lecture: Multiscale approaches for the hydrogen redistribution in metallic microstructures	Ali Tehranchi
04:40 PM	05:00 PM	Deciphering Hydrogen Embrittlement: A Multi-Scale Approach to Thermal Desorption Spectroscopy Analysis	Osamu Waseda
05:00 PM	05:20 PM	Accurate Gibbs energy of planar defects in Ni3AI at high temperatures	Xiang Xu
05:20 PM	07:20 PM	Poster Session 1	Forum Hall Foyer 3
07:20 PM	07:40 PM	Poster Award Ceremony	Chamber Hall

Room: 221 + 222

09:50 AM	10:20 AM	Coffee break	Forum Hall Foyer 2
		Symposium L - Tuesday Morning / 10:20 AM-12:10 PM	Chair: Coleman Alleman
10:20 AM	10:50 AM	Keynote Lecture: Coupled Dislocations and Fracture dynamics at finite deformation	Amit Acharya
10:50 AM	11:10 AM	Screw Dislocations and Crack-Tip Plasticity in Tungsten	Erik Bitzek
11:10 AM	11:30 AM	Alloying Effects on Grain Boundary Kinetics and Disconnection Behavior	Jason Trelewicz
11:30 AM	11:50 AM	Grain boundary misorientation informed numerical framework for stress corrosion cracking in polycrystalline materials	Siladitya Pal
11:50 AM	12:10 PM	Analytical and Numerical Implementation of Microelement Plastic Strain Accumulation Model for Rotating Bending Fatigue Life Prediction	Vignesh Kumar Gopalakrishnan
12:10 PM	01:10 PM	Lunch	Forum Hall Foyer 2
		Symposium L - Tuesday Afternoon / 01:10 PM-03:00 PM	Chair: Coleman Alleman
01:10 PM	01:40 PM	Keynote Lecture: Atomistically informed void nucleation in ductile fracture modeling	Ryan Sills
01:40 PM	02:00 PM	The Atomistic Origin of Fracture Toughness in Amorphous Silica	Gergely Molnár
02:00 PM	02:20 PM	Stability of nanoscale intergranular vacancy clusters : Monte Carlo simulations and elastic calculations	Döme Tanguy
02:20 PM	02:40 PM	Atomistic Insights: Shattering Expectations in Crack Dynamics	Fraser Birks
02:40 PM	03:00 PM	Experiment and multiscale modelling of stress redistribution and damage in Titanium dwell fatigue, and its temperature sensitivity	Fionn Dunne
03:00 PM	03:30 PM	Coffee break	Forum Hall Foyer 2
		Symposium L - Tuesday Afternoon / 03:30 PM-05:20 PM	Chair: Ryan Sills
03:30 PM	04:00 PM	Keynote Lecture: Hybrid FE-laminographic Analysis of Damage Mechanism in Biaxial Experiments on Aluminum 2198-T8R	Dirk Mohr
04:00 PM	04:20 PM	Microstructural Induced Failure Modes in Crystalline Materials	Mohammed Zikry
04:20 PM	04:40 PM	Modelling fracture in EUROFER97 steel	Andris Freimanis
04:40 PM	05:00 PM	Phase field modeling of fracture in dual phase microstructures	Tuncay Yalcinkaya
05:00 PM	05:20 PM	CANCELLED	Afzaal Ahmed
05:20 PM	07:20 PM	Poster Session 1	Forum Hall Foyer 3
07:20 PM	07:40 PM	Poster Award Ceremony	Chamber Hall

Room: South Hall 3A

09:50 AM	10:20 AM	Coffee break	Forum Hall Foyer 2
		Symposium E - Tuesday Morning / 10:20 AM-12:10 PM	Chair: Maylise Nastar
10:20 AM	10:50 AM	Keynote Lecture: Phase-field model of non-coherent thermal composition fluctuations and radiation-induced spinodal decomposition in INVAR Fe-Ni alloys	Maylise Nastar
10:50 AM	11:10 AM	Phase-field modelling of grain boundary segregation at equilibrium and under irradiation	Yanis Calbert
11:10 AM	11:30 AM	Phase-field modeling predicting three-dimensional microstructural defect evolution in ferrous alloy under irradiation condition	llhyun Cho
11:30 AM	11:50 AM	Phase-field modelling of extended defects in metals under extreme conditions	Antoine Ruffini
11:50 AM	12:10 PM	Kinetics of segregation and precipitation in Fe-Cr alloys under irradiation: strain/stress effects	Frédéric Soisson
12:10 PM	01:10 PM	Lunch	Forum Hall Foyer 2
		Symposium E - Tuesday Afternoon / 01:10 PM-03:00 PM	Chair: Osman El Atwani
01:10 PM	01:40 PM	Keynote Lecture: Multiscale Material Studies on Innovative Materials for Fusion Power	Osman El Atwani
01:40 PM	02:00 PM	Impact of Interface Roughness and Alignment on the Deformation Mechanisms in AI-Ti Bimetallic Microstructures	John Carpenter
02:00 PM	02:20 PM	Cascade damage in mechanically loaded materials	Antoine Clement
02:20 PM	02:40 PM	Point defect properties in Fe-Cr-He alloys using DFT-based machine learning potential	Jan Wróbel
02:40 PM	03:00 PM	-	-
03:00 PM	03:30 PM	Coffee break	Forum Hall Foyer 2
		Symposium E - Tuesday Afternoon / 03:30 PM-05:20 PM	Chair: Chenyang Lu
03:30 PM	04:00 PM	Keynote Lecture: Distinct defect properties and enhanced radiation resistance of NbZrTi-based refractory multi-principal element alloys	Chenyang Lu
04:00 PM	04:20 PM	Modeling SISF nucleation and shearing mechanisms in Ni-based superalloys	Inam Iqbal Lalani
04:20 PM	04:40 PM	Sensitivity analysis and optimization of multi-scale models for microstructural evolution in metal materials under neutron irradiation	Shaoting Wan
04:40 PM	05:00 PM	Multiscale modeling of the synergistic evolution of transmutation elements and irradiation defects in tungsten	Hong-Bo Zhou
05:00 PM	05:20 PM	-	-
05:20 PM	07:20 PM	Poster Session 1	Forum Hall Foyer 3
07:20 PM	07:40 PM	Poster Award Ceremony	Chamber Hall

Room: South Hall 3B

09:50 AM	10:20 AM	Coffee break	Forum Hall Foyer 2
		Symposium B - Tuesday Morning / 10:20 AM-12:10 PM	Chair: Ryan Sills
10:20 AM	10:50 AM	Keynote Lecture: Strain gradient crystal plasticity modelling of kinematic hardening inspired from discrete dislocation dynamics	Marc FIVEL
10:50 AM	11:10 AM	Simulation of plastic strain localisation in polycrystals by Discrete Dislocation Dynamics and crystal plasticity	Riccardo Gatti
11:10 AM	11:30 AM	On the role of collinear annihilation and cross-slip in dynamic recovery	Ronan Madec
11:30 AM	11:50 AM	Unraveling dislocation microstructures via surrogate modelling of continuum dislocation dynamics simulations	Katrin Schulz
11:50 AM	12:10 PM	On qualitative aspects of parametric dislocation dynamics model by means of evolving curves	Miroslav Kolar
12:10 PM	01:10 PM	Lunch	Forum Hall Foyer 2
		Symposium B - Tuesday Afternoon / 01:10 PM-03:00 PM	Chair: Pierre-Antoine Geslin
01:10 PM	01:40 PM	Keynote Lecture: Integration of Atomistically-Derived Dislocation Behavior into Discrete Dislocation Dynamics Simulations	Douglas Spearot
01:40 PM	02:00 PM	High-speed mobility law of dislocations in anisotropic crystals : theory vs. atomistic simulations	Yves-Patrick Pellegrini
02:00 PM	02:20 PM	Development of an irradiation hardening model based on multi-scale numerical simulations. Application to zirconium	Pascal Noirot
02:20 PM	02:40 PM	Physical insights into dislocation avalanche statistics in Cu through Dislocation Dynamics simulations	Sylvain Queyreau
02:40 PM	03:00 PM	Dislocation Dynamics investigation of dislocation avalanches and confrontation with experiments	Aissaoui Missipsa
03:00 PM	03:30 PM	Coffee break	Forum Hall Foyer 2
		Symposium B - Tuesday Afternoon / 03:30 PM-05:20 PM	Chair: Douglas Spearot
03:30 PM	04:00 PM	Keynote Lecture: From Pure Metals to Multi-Principal Element Alloys – A Dislocation-Based Data-Driven Approach for Predicting the Stress-Strain Curves FCC Metals	Jaafar El-Awady
04:00 PM	04:20 PM	Multiscale modelling of stochastic dislocation mechanisms – cross-slip and dislocation nucleation	Dan Mordehai
04:20 PM	04:40 PM	The role of surface nucleation in bcc micropillar plasticity	Yang Li
04:40 PM	05:00 PM	Mechanical properties of small nanoparticles: ultra high strength, shape dependence and uncommon plasticity mechanisms	Laurent pizzagalli
05:00 PM	05:20 PM	On the relation between dislocation microstructures and the densification of nanoporous Au nanoparticles	Santhosh Mathesan
05:20 PM	07:20 PM	Poster Session 1	Forum Hall Foyer 3
07:20 PM	07:40 PM	Poster Award Ceremony	Chamber Hall

Room: South Hall 3C

09:50 AM	10:20 AM	Coffee break	Forum Hall Foyer 2
		Symposium C - Tuesday Morning / 10:20 AM-12:10 PM	Chair: Abigail Hunter
10:20 AM	10:50 AM	Keynote Lecture: A creep model controlled by the interdependent dynamics of point defect, dislocation, grain boundary, and void	Yinan Cui
10:50 AM	11:10 AM	Multi-scale Anisotropic Study of Primary Creep Deformation of Heterogeneous SAC Solder Crystals	Abhijit Dasgupta
11:10 AM	11:30 AM	Anomalous entropy-driven kinetics of dislocation nucleation	Danny Perez
11:30 AM	11:50 AM	Activation entropy of dislocation glide from atomistic simulations	Arnaud Allera
11:50 AM	12:10 PM	Mobility of dislocations in body-centered cubic transition metals	Emmanuel Clouet
12:10 PM	01:10 PM	Lunch	Forum Hall Foyer 2
		Symposium C - Tuesday Afternoon / 01:10 PM-03:00 PM	Chair: Yinan Cui
01:10 PM	01:40 PM	Keynote Lecture: Mesoscale Investigations of deformation mechanisms in metals and alloys using Phase Field Dislocation Dynamics (PFDD)	Abigail Hunter
01:40 PM	02:00 PM	Coarse-Grained Phase-Field Crystal Model of Dislocations in Quasicrystals	Marcello De Donno
02:00 PM	02:20 PM	Energetic and structusral analyses of affecting factors for dislocation nucleation and transmission at grain boundary in metals and alloys	Masato Wakeda
02:20 PM	02:40 PM	Bridging Atomistic and Continuum Mechanics for describing Crystal Defects and Grain Boundary Excess Energy	Houssam Kharouji
02:40 PM	03:00 PM	Energy-based Stopping Criteria for FFT-based Computational Homogenization	Martin Ladecký
03:00 PM	03:30 PM	Coffee break	Forum Hall Foyer 2
		Symposium C - Tuesday Afternoon / 03:30 PM-05:20 PM	Chair: Emmanuel Clouet
03:30 PM	03:50 PM	Frank Dislocations at a Twin Boundary as Efficient Dislocation Sources	Daren Liu
03:50 PM	04:10 PM	Analysis of twinning propagation and thickening in 3D	Filip Siska
04:10 PM	04:30 PM	Exploring Plastic Deformation Behavior in Nanotwinned Metals under High Quasi- hydrostatic Pressure: A Molecular Dynamics Insight	Ruoqi Dang
04:30 PM	04:50 PM	Micro-twinning induced plasticity in solid-solid reconstructive phase transformation	Kanka Ghosh
04:50 PM	05:10 PM	TRIP effect in Zirconia: atomistic simulations based on a Neural Network potential compared to in-situ experiments	Gaël Huynh
05:20 PM	07:20 PM	Poster Session 1	Forum Hall Foyer 3
07:20 PM	07:40 PM	Poster Award Ceremony	Chamber Hall

Room: Chamber Hall

09:50 AM	10:20 AM	Coffee break	Forum Hall Foyer 2
		Symposium H - Tuesday Morning / 10:20 AM-12:10 PM	Chair: Takeshi Egami
10:20 AM	10:50 AM	Keynote Lecture: A model of thermodynamic stabilization of nanocrystalline grain boundaries in alloy systems	Yuri Mishin
10:50 AM	11:10 AM	Multiscale model predicting brittle fracture of nanocomponents	Miroslav Černý
11:10 AM	11:30 AM	The Energetics of Disconnection Nucleation and Glide in Symmetric Tilt Grain Boundaries	Himanshu Joshi
11:30 AM	11:50 AM	Capabilities and improvement ability of classical many-body potentials: application to hcp-Zr	Alessandra Del Masto
11:50 AM	12:10 PM	Insights into Shear-Coupled Twin Boundary Migration: A Comprehensive Analysis	Ritu Verma
12:10 PM	01:10 PM	Lunch	Forum Hall Foyer 2
		Symposium H - Tuesday Afternoon / 01:10 PM-03:00 PM	Chair: Yuri Mishin
01:10 PM	01:40 PM	Keynote Lecture: Atomistic simulations in multi-principal-component FCC materials	Diana Farkas
01:40 PM	02:00 PM	Phase Pattern Formation in Grain Boundaries	lan Winter
02:00 PM	02:20 PM	Revealing and Controlling of Dislocation Plasticity, Twinning and Fracture in BCC Transition Metals and Alloys	Zhaoxuan Wu
02:20 PM	02:40 PM	Investigation of Impacts of Spin Inhomogeneity on Screw Dislocation Mobility in BCC Iron	Hideki Mori
02:40 PM	03:00 PM	Revisiting Franks Theory for the creation of open-core screw dislocations in 4H-SiC by molecular dynamics simulation	Georg Holub
03:00 PM	03:30 PM	Coffee break	Forum Hall Foyer 2
		Symposium H - Tuesday Afternoon / 03:30 PM-05:20 PM	Chair: Diana Farkas
03:30 PM	03:50 PM	Atomistic Mechanisms of Ring Formation During Catalyzed Carbon Nanotube Growth	Wang Rui
03:50 PM	04:10 PM	Relating Shear Transformations in a Model Glass to Features of the Two-Dimensional Local Yield Surface	Spencer Fajardo
04:10 PM	04:30 PM	Integrating Newton's Equations of Motion in the Reciprocal Space as a Novel Materials Modeling Technique	Miljan Dašić
04:30 PM	04:50 PM	Pseudo-twin boundary improves flow stress and fatigue resistance of TiAl single crystal: atomistic simulations	Prof. Dr. Min Yi
04:50 PM	05:10 PM	-	-
05:20 PM	07:20 PM	Poster Session 1	Forum Hall Fover 3

05:20 PM 07:20 PM Poster Session 1 07:20 PM 07:40 PM Poster Award Ceremony

Chamber Hall