

## Time Table

Lecture time: 40 min + 20 min discussion for speakers from abroad, 30 min + 20 min discussion for domestic speakers

	Monday 3	Tuesday 4	Wednesday 5	Thursday 6
Morning 1		<b>Session I: Performance of High Strength Steels I</b> <b>Chair: K. USHIODA</b> 9:00 M. AZUMA: Ductile fracture in dual phase steel 9:50 N. ISHIKAWA: Improvement of mechanical properties of multi-phase structural steels by controlling microscopic deformation and fracture behavior	<b>Session III: Damage Evolution during deformation</b> <b>Chair: T. FURUHARA</b> 9:00 C. TASAN: Ductile damage: micro-mechanisms and macro-influences 10:00 H. TODA: Assessment of ductile fracture via 3D/4D image-based approaches	<b>Session VI: Nature of Deformation, Toughness and Fracture II</b> <b>Chair: K. HASE</b> 9:00 Y. MINE: Micromechanical characterization of hierarchical micro/nano structures in steels 9:50 K. HIGASHIDA: Toward bridging dislocation behaviors and materials fracture
		10:40 Coffee Break (30 min)	10:50 Coffee Break (30 min)	10:40 Coffee Break (30 min)
Morning 2		<b>Session II: Performance of High Strength Steels II</b> <b>Chair: M. TAKAHASHI</b> 11:10 T. KOCHI: Influence of inclusion on fatigue of bearing steel 12:00 J. SPEER: Quenching and Partitioning Steel	<b>Session IV: Creep, Fatigue and Hydrogen effects</b> <b>Chair: S. NAMBA</b> 11:20 P. SOFRONIS: Micromechanics of hydrogen-induced fracture: from experiments and modelling to prognosis 12:20 M. MITSUHARA: High temperature deformation dynamics in crystalline materials	<b>Session VII: Modelling and Simulations</b> <b>Chair: H. OHTANI</b> 11:10 T. SHIMOKAWA: Atomic simulation of the role of the interface on mechanical properties of pearlite steel 12:00 M. ITAKURA: First-principles calculation of screw dislocation core in bcc iron
		13:00 Photograpy + Lunch (90 min)	13:10 Lunch (90 min)	(No lunch served)
Afternoon	16:30 Registration desk open	<b>14:30 Poster Review</b> <b>Chair: T. OSADA</b> *3-minute presentation with 3 slides maximum	<b>Session V: Nature of Deformation, Toughness and Fracture I</b> <b>Chair: M. TANAKA</b> 14:40 D. CAILLARD: In situ straining experiments at low and high temperatures in Fe and Fe alloys 15:40 T. OHMURA: Dislocation motion and related nano-mechanical behavior of bcc iron	12:50 Closing Remarks
		16:15 Coffee Break (30 min)	16:30 Intermission (2 hours)	
Evening	<b>Opening session</b> <b>Chair: K. TSUZAKI</b> 17:30 Opening Remarks 17:40 Y. IKUHARA: Grain boundary dynamics and dislocation interaction in materials 18:30 M. OHATA: Hierarchical Ductile Damage Simulation for Structural Performance-Based Material Design 19:30 Welcome party @ Agora Hall	<b>16:45~19:45 Poster session @ Agora Hall</b>  Light meal and beverages will be served @ Lobby	<b>18:30 ~ 20:30 Banquet @ Main Hall</b>	