

構造材料

カーボン ニュートラル

NIMS Award シンポジウム 2023

2023.11.6(月)～11.7(火) つくば国際会議場 中ホール300

参加
無料

Day 1 11.6(月) 10:00～ (9:30開場)



NIMS Award授賞式 & 受賞記念講演

Prof. Dierk Raabe

(Max-Planck-Institut für Eisenforschung GmbH, Düsseldorf, Germany)

“The Materials Science Behind Hydrogen-Based Green Steel Making”

招待講演

Prof. Sudarsanam Suresh Babu (Univ. of Tennessee, Knoxville, USA)

Prof. Simon P. Ringer (The Univ. of Sydney, Australia)

Prof. Sung-Joon Kim (POSTECH, Korea)

古原 忠 教授 (東北大学)

Day 2 11.7(火) 9:00～ (8:30開場)

招待講演

Session 1 「変形・破壊」

辻 伸泰 教授 (京都大学)

榎 学 教授 (東京大学)

田中 将己 教授 (九州大学)

小山 元道 准教授 (東北大学)

Session 2 「耐熱材料」

佐藤 英一 教授 (JAXA)

小泉 雄一郎 教授 (大阪大学)

塚田 祐貴 准教授 (名古屋大学)

How to join?

NIMS Award シンポジウム 特設サイトにて
参加登録 & ポスター発表の受付スタート!



構造材料分野を牽引する研究者がつくばに集結！

Nov. 6

(Mon)

9:30 -

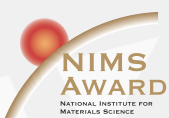
9:30 -	Registration
10:00 -	Opening Remarks, Greeting from MEXT
10:05 - 10:20	NIMS Introduction
10:20 - 10:40	NIMS Award 2023 Ceremony
10:40 - 11:40	NIMS Award 2023 Winning-lecture  Prof. Dierk Raabe (Max-Planck-Institut für Eisenforschung GmbH, Düsseldorf, Germany) “The Materials Science Behind Hydrogen-Based Green Steel Making”
11:40 - 13:00	Photo Session & Lunch Break
13:00 - 13:40	Invited Talk NA-1 Prof. Sudarsanam Suresh Babu (University of Tennessee, Knoxville, USA) “Microstructural Heterogeneity in Metal Additive Manufacturing”
13:40 - 14:20	Invited Talk NA-2 Prof. Simon P. Ringer (The University of Sydney, Australia) “Towards a New Class of Alpha-beta Ti-O-Fe Alloys via Additive Manufacturing — a case study in atomic-scale microstructural control”
14:20 - 14:40	NIMS Talk NA-3 Dr. Makoto Watanabe (RCSM, NIMS) “Materials Integration for Understanding Process-Structure-Property Linkage of Additive Manufacturing”
14:40 - 15:00	Poster / Coffee
15:00 - 15:40	Invited Talk NA-4 Prof. Sung-Joon Kim (POSTECH, Korea) “Understanding Material Factors on Liquid Metal Embrittlement Sensitivity of Zn-coated AHSS”
15:40 - 16:20	Invited Talk NA-5 Prof. Tadashi Furuhashi (Tohoku University) “Sublattice Alloy Design for Application of Solute Clustering in High-strength Steels”
16:20 - 16:40	NIMS Talk NA-6 Dr. Hideki Katayama (RCSM, NIMS) “Corrosion Risk Prediction Map for Maintenance of Infrastructure”
16:40 - 18:00	Poster / Refreshment
18:00 - 19:30	NIMS Award Reception

Nov. 7

(Tue)

8:30 -

8:30 -	Registration
	Session 1: Deformation and Fracture
9:00 - 9:30	Invited Talk S1-1 Prof. Nobuhiro Tsuji (Kyoto University) “Possibilities of Advanced Steels Managing Both Ultra-High Strength and Large Ductility”
9:30 - 10:00	Invited Talk S1-2 Prof. Manabu Enoki (The University of Tokyo) “Microstructure Based Prediction/Design of Mechanical Properties and Damage Monitoring of Structural Materials”
10:00 - 10:30	Invited Talk S1-3 Prof. Masaki Tanaka (Kyushu University) “Understanding the Brittle-to-ductile Transition Based on Shielding Theory”
10:30 - 11:00	Poster / Coffee
11:00 - 11:30	Invited Talk S1-4 Associate Prof. Motomichi Koyama (Tohoku University) “Interactions among Hydrogen-transformation-crack in Metastable Austenitic Steels”
11:30 - 12:00	NIMS Talk S1-5 Dr. Akinobu Shibata (RCSM, NIMS) “Hydrogen-related Fracture in High-strength Martensitic Steels”
12:00 - 13:30	Lunch Break
	Session 2: High-temperature Materials
13:30 - 14:00	Invited Talk S2-1 Prof. Eiichi Sato (Institute of Space and Astronautical Science, JAXA) “Multi-material Designed Satellite Thruster through Ceramics/metal Dissimilar Joining”
14:00 - 14:30	Invited Talk S2-2 Prof. Yuichiro Koizumi (Osaka University) “Digital Twin Science of Powder Bed Fusion Metal Additive Manufacturing”
14:30 - 15:00	Invited Talk S2-3 Associate Prof. Yuhki Tsukada (Nagoya University) “Grain Boundary Segregation and Creep Rupture Strength of High-temperature Materials”
15:00 - 15:30	Poster / Coffee
15:30 - 16:00	NIMS Talk S2-4 Dr. Toshio Osada (RCSM, NIMS) “Development of Ni-based Superalloys for Jet Engine Applications”
16:00 - 16:30	NIMS Talk S2-5 Dr. Taisuke Sasaki (CMSM, NIMS) “On the Role of Atom Probe Tomography in Understanding of Microstructural Origin of High Strength in Metallic Alloys”
16:30 - 16:35	Oral Closing
16:35 - 19:00	Poster Session [Core Time 17:00~19:00]



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Structural Materials X Carbon Neutral