

iMATERIA-HIPPO Symposium

“Recent topics of microstructural analysis by using quantum beam”

Place: Nikko Tokanso

Address: 2335 Yamauchi, Nikko, Tochigi

Web site: <https://www.nikkotokanso.com/en-gb>

Date: 23rd –24th September 2018

Sponsor: The Iron and Steel Institute of Japan

“Characterization and simulation of anisotropy of polycrystal materials” forum

“Stress and strain evaluation in multi-scale of microstructure of metals” forum

Program

23rd September

14:00 ~ 14:10 Opening remark

Dr. Yusuke Onuki

Frontier Research Center for Applied Atomic Science, Ibaraki University

14:10 ~ 15:40 Ambient and high-temperature bulk characterization of additively manufactured Ti-6Al-4V using neutron diffraction

Sven Vogel

Material Science and Technology Division, Los Alamos National Laboratory

15:40 ~ 16:00 Coffee Break

16:00 ~ 16:30 Texture analysis of magnesium alloys by using neutron diffraction

Yusuke Onuki

Frontier Research Center for Applied Atomic Science, Ibaraki University

16:30 ~ 18:00 Advanced texture analysis methods using neutron diffraction and viscoplastic self-consistent polycrystal modeling

Shigehiro Takajo

Material Science and Technology Division, Los Alamos National Laboratory,
JFE Steel Corporation

18:00 ~ 20:00 Break

20:00 ~ 21:00 Dislocation characteristics of fatigue materials
Masayoshi Kumagai
Faculty of Engineering, Tokyo City University

24th September

9:00 ~ 10:00 Discussion: Round-robin test of neutron texture analysis
Chair: Toshiro Tomida
Ibaraki Prefecture

10:00 ~ 11:00 Discussion: Round-robin test of line-profile analysis
Chair: Shigeo Sato
Graduate School of Science and Engineering, Ibaraki University

11:00 ~ 11:10 Closing remark
Masayoshi Kumagai
Faculty of Engineering, Tokyo City University