

研究集会のご案内 Announcement of Special Lecture

接合構造化評価学分野 南 二三吉
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Dept. Structural Integrity and Failure Assessments, JWRI

特任教授として接合研に滞在中の、上海交通大学教授 Fenggui Lu 先生の講演会を企画しましたので、皆様のご参加を賜りますようお願い申し上げます。

This is to announce the special lecture by Prof. Fenggui Lu, specially appointed Prof. at JWRI as the academic collaboration with Shanghai Jiao Tong University (SJTU), China. Those who are interested in the relationship between the microstructure and fracture resistance of weld metals are very welcome to this lecture.

日時 (Date and time): 平成 30 年 8 月 17 日(金) 13:00~14:15
August 17th (Fri.), 2018, 13:00~14:15

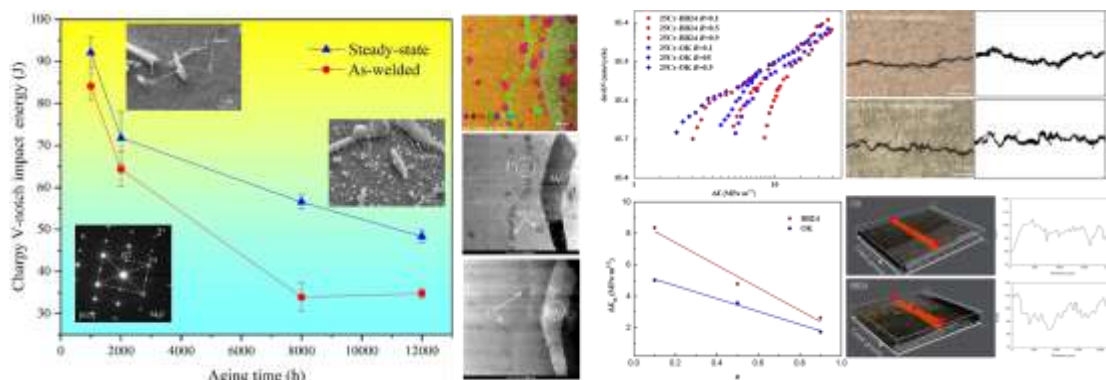
場所 (Place): 大会議室 Large meeting room

講演タイトル (Title of presentation):

Investigation of Intrinsic Correlation between Microstructure Evolution and Mechanical Properties: Impact Toughness and Crack Growth Resistance

講演概要 (Abstract):

The effects of microstructure evolution in weld metals exposed at 750°C for 1000h to 12000h on the impact toughness were revealed. The role of the related matrix and shape & size of major phases on the toughness of weld metals was discussed in detail. It was found that the weld metal with a lower toughness possessed a higher crack growth resistance, especial in the near-threshold region. Specific microstructure with a crack closure effect showed a larger resistance to crack growth.



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