特別講演会のお知らせ

2019.5.21

北海道支部　支部長　　花島　直彦

この度下記の通り特別講演会が開催されます。
皆様におかれましては是非ご参加くださいますようご案内とお願いを申し上げます。
参加希望者は 5 月 22 日(水) 午前中までに下記　中村先生までご連絡下さいますようお願いいたします。

記

日　時　：　2019 年　5 月　23 日(木)　　11:30～13.:00
場　所　：　北海道大学　工学部　A5-66 室
講　演　：　ULTRASONIC FATIGUE TESTING: PRINCIPLE AND APPLICATIONS
講　師　：　Dr. Bernd M. Schönbauer

勤務先：　University of Natural Resources and Life Sciences (BOKU), Vienna, Austria

After a short introduction on the principles of the ultrasonic fatigue testing technique – which is a main research topic of the Institute of Physics and Materials Science at BOKU, Vienna –, various studies will be presented where this testing method has been applied.
Investigations of the very high cycle fatigue properties of several materials under different loading conditions and in different environments reveal the importance of fatigue tests in this regime of lifetimes. Replication of in-service loading conditions is indispensable to study the relevant failure mechanisms and to enable a safe fatigue design. Examples are superimposed static torque in addition to cyclic shear loads that are relevant for coil springs, varying loads according to in-service load-time histories, and environmental effects that may significantly affect the fatigue strength. Beside cyclic lifetime tests, studies based on fatigue crack growth rate measurement and fracture mechanics investigations will be presented

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