Thermo-Calc Software

Computational Thermodynamics and Kinetics Seminar

Welcome to the Thermo-Calc Software user group meeting in Four Points by Sheraton Josun Seoul Station, 20F SEMINAR ROOM in Seoul **on November 20th, 2025.**

PROGRAM:

09.00 – 09.45 ***Registration and coffee with cookies***

09.45 – 10.00 **Welcome and Introduction**
Dr. Johan Bratberg, Thermo-Calc Software

10.00 – 10.25 **Integration of CALPHAD thermodynamic data with deep learning for generalized prediction of high-temperature compression behavior**
Dr. Seonghwan Kim, Thermo-Calc Software Korea

10.25 – 10.50 **Application of the Additive Manufacturing module and MICRESS to mitigate solidification cracking in superalloy welds**
Prof. Eunjoon Chun, Pukyong University

10.50 – 11.10 ***Short break***

11.10 – 12.00 **News from Thermo-Calc Software: Thermo-Calc, DICTRA, TC-PRISMA, AM module and databases**
Dr. Johan Bratberg, Thermo-Calc Software

12.00 – 13.30 ***Lunch***

13.30 – 13.55 **Calculation of thermodynamic quantities using TC-Python**
Dr. Jae-Sang Lee, POSTECH GIFT

13.55 – 14.20 **Phase field modelling of thermodynamic stability of hydride on Zr matrix**
Prof. Kunok Chang, Kyung Hee University

14.20 – 14.55 **Data driven prediction of thermodynamic properties for phase field modelling of aluminium alloy solidification**
Dr. Jiwon Park, KIMS

14.55 – 15.20 **Phase field and mean field modelling of phase transformations in additively manufactured IN738LC Ni-based superalloy**
Prof. Kyoung-Doc Kim, POSTECH GIFT

15.20 – 15.50 ***Coffee break***

15.50 – 16.20 **Thermo-Calc Software's Additive Manufacturing module – Introduction and application examples**
Dr. Seonghwan Kim, Thermo-Calc Software Korea

WELCOME!

For more information about Thermo-Calc, please visit:

www.thermocalc.com