Thermo-Calc Software

Computational Thermodynamics and Kinetics Seminar

Welcome to the Thermo-Calc Software User Group Meeting Hosted by Thermo-Calc Software, Sweden and Phase Diagram and Thermodynamics Committee (PDTC) of the Materials Research Society-Taiwan (MRS-T) on November 12-13, 2024.

This programme is preliminary, and may be updated before the Meeting.

PROGRAM Day 1, Nov. 12, Thermo-Calc User Group Meeting:

09:15 - 10:00	Registration
10:00 - 10:15	Welcome and Introduction Shan Jin, Thermo-Calc Software
10:15 – 10:45	News from Thermo-Calc Software: Thermo-Calc, DICTRA, TC-PRISMA and Databases Shan Jin & Martin Xing, Thermo-Calc Software
10:45 - 11:15	Coffee/Tea Break
11:15 – 11:40	Computational Thermodynamics and Its Applications on Steel Making Shih-Kang Lin, National Cheng Kung University, Taiwan
11:40 – 12:05	Investigation of the Solidification and Heat Treatment Properties of Advanced Alloys using Experimentally Verifiable Multiscale Thermodynamic and Kinetic Computational Approaches Te-Cheng Su, National Taiwan University, Taiwan
12:05 – 12:30	Title TBD <i>Tiger Tang, Weir Minerals Australia LTD, Australia</i>
12:30 – 13:30	Lunch
13:30 – 13:55	Additive Manufacturing of High-Performance Multiphase High-Entropy Alloys Xipeng Tan, National University of Singapore, Singapore
13:55 – 14:20	Application of Thermo-Calc in Aluminum Billet Casting, Extrusion and Post Processes Sam Chiang, Taiwan Hodaka Technology Co. Ltd., Taiwan
14:20 – 14:45	Integration of High-Throughput CALPHAD and Machine Learning for Searching for EHEAs and Predicting Incone 718 Properties YingZhi Zeng, Institute of High Performance Computing, Agency for Science, Technology and Research, Singapore
14:45 – 15:10	Autonomous Simulation in the Loop: A TC-Python Application Zhonghan Zhang, Nanyang Technological University, Singapore
15:10 - 15:40	Coffee/Tea Break
15:40 – 16:05	Advanced Aluminium Alloy Development for Additive Manufacturing Assisted by Thermo-Calc Zhiheng Hu, SIMTech Singapore Institute of Manufacturing Technology, Singapore
16:05 – 16:30	Investigation of Solidification and Homogenization Behavior of δ -ferrite in 304 SS Billet through DICTRA Sheng Yuan Cheng, Walsin Lihwa Corp., Taiwan
16:30 – 16:55	Capabilities and Limitations of CALPHAD in Designing Thermal-Sprayed High-Entropy Alloy Coatings Ecio Bosi Junior, Swinburne University of Technology, Australia
16:55 – 17:20	The Machine Learning Designs a New RHEA with Thermo-Calc and TC-Python Module Wei-Chih Lin, National Tsing Hua University, Taiwan
17:20 – 18:00	Title TBD Shan Jin & Martin Xing, Thermo-Calc Software
18:30	Dinner Location TBD

For more information about Thermo-Calc, please visit:

www.thermocalc.com

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PROGRAM Day 2, Nov. 13, Thermo-Calc Demonstration and Training:

08:30 - 9:00	Registration
09:00 - 10:30	Demonstration and Training: Thermo-Calc Shan Jin & Martin Xing, Thermo-Calc Software
10:30 - 11:00	Coffee/Tea break
11:00 – 11:30	Demonstration and Training: Property Models Shan Jin & Martin Xing, Thermo-Calc Software
11:30 – 12:30	Demonstration and Training: Additive Manufacturing Module & Process Metallurgy Module Shan Jin & Martin Xing, Thermo-Calc Software
12:30 – 13:30	Lunch
13:30 – 15:00	Demonstration and Training: Diffusion Module (DICTRA) Shan Jin & Martin Xing, Thermo-Calc Software
15:00 – 15:30	Coffee/Tea break
15:30 – 16:30	Demonstration and Training: Precipitation Module (TC-PRISMA) Shan Jin & Martin Xing, Thermo-Calc Software
16:30	End

REGISTRATION:

Please send your registration form for the meeting via E-Mail before October 15, 2024 to: Thermo-Calc Software AB, info@thermocalc.com. Please indicate any special requirements for food, such as allergies, vegetarian or non-dairy etc.

LOCATION: NTUH International Convention Center

No. 2, Xuzhou Road, Zhongzheng District 100, Taipei City, Taiwan

http://www.nthcc.com.tw/traffic/traffic01?lang=en

WELCOME!

For more information about Thermo-Calc, please visit:

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