Computational Thermodynamics and Kinetics Seminar

Welcome to the Thermo-Calc Software User Group Meeting in Lyon.

PROGRAM:

Monday October 23, 2023

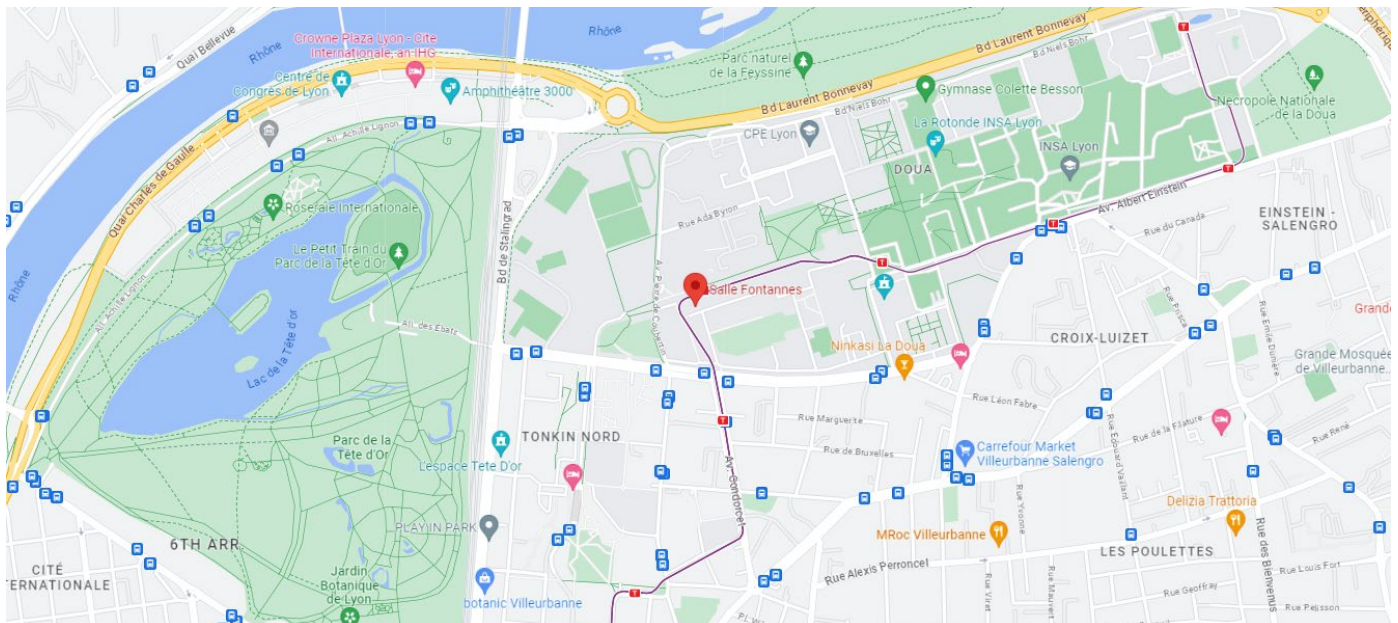|	
11:00 – 12:00	*Registration*
12:00 – 13:00	*Lunch*
13:00 – 13:25	**News from Thermo-Calc, Overview of recent developments, Outlook to the future** *Thermo-Calc Software AB*
13.25 – 13.50	**Thermo-Calc's new Additive Manufacturing Module** *Andre Schneider, Thermo-Calc Software AB*
13:50 – 14:15	**Leveraging ICME for accelerated implementation of additive manufacturing** *Savya Sachi, Questek Europe AB*
14:15 – 14:45	*Coffee break*
14:45 – 15:10	**Steel design in Additive Manufacturing against Hot Cracking** *Manuel Sanchez Poncela, Arcelor Mittal*
15:10 – 15:35	**Rapid solidification: Microstructure, kinetics and solidification path** *Charles-Andre Gandin, Ecole des Mines, Paris*
15:35 – 16:00	**Industrial use of Thermo-Calc in the design of a new low alloy steel: Prediction of the precipitates and comparison with experimental results** *Michel Piette, Vallourec*
16:00 – 16:20	*Coffee break*
16:20 – 16:45	**Segregation sensitivity difference during solidification of 18MND5 and 2.25Cr-1Mo steels used for nuclear power plants heavy forgings** *Arthur Marceaux dit Clement, Framatome SAS*
16:45 – 17:10	**Identification of the origin of defects during steel elaboration by the use of Thermo-Calc** *Simon Catteau, Ascometal*
17:10 – 17:35	**Coupling TCC and DICTRA to phase transformation models** *Michel Perez, INSA-Lyon*
18:30 – late	***Social gathering and dinner at Brasserie Georges, 30 cours Verdun, LYON***

Tuesday October 24, 2023

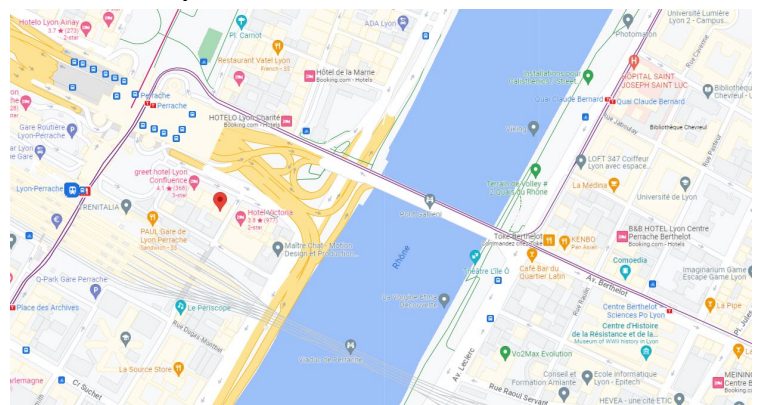|	
09:00 – 09:25	**Thermodynamic modelling of metal-hydrogen systems** *Jean-Marc Joubert, I.C.M.P.E.*
09:25 – 09:50	**Thermodynamic modelling of nuclear fuels** *Christine Gueneau, CEA Saclay*
09:50 – 10:15	**Various cases of alloy design for aerospace applications** *Mikael Perrut, ONERA, the French Aerospace Lab*

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10:15 – 10:45	*Coffee break*
10:45 – 11:10	**Appending TCNI on TCFE**
	Nathalie Dupin, Calcul Thermodynamique
11:10 – 11:35	**ICME Approach on Microstructural Evolution of a Q&P Heat Treatment**
	M. Bouzouni, E. Gavalas, S. Papaefthymiou, ELKEME
11:35 – 12:00	**Implementing Thermo-Calc as a Digital Twin of an industrial steel refining process**
	Nicholas Grundy, Thermo-Calc Software AB
12:00 – 12:25	**A Comprehensive Model for Manganese Ore Sintering Process Combining Thermal and Thermodynamic Principles**
	Haoxue Han, Jacques Montagnon, Eramet Ideas
12:25 – 12:30	**Closing remarks**
12:30 – 14:00	*Lunch*
14:00 – 15:30	**Lab Tour (optional)**

LOCATION: *University Claude Bernard Lyon 1, Salle Fontannes*

DINNER: *Brasserie Georges, 30 cours Verdun, Lyon, France*

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Thermo-Calc △ Software

REGISTRATION

Computational Thermodynamics and Kinetics Seminar

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I will take part

- ☐ Mo 23.10.2023 Thermodynamics and Kinetics Seminar Day 1 ONLY – 100 EUR
- ☐ Tu 24.10.2023 Thermodynamics and Kinetics Seminar Day 2 ONLY – 100 EUR
- ☐ Both days including Conference Dinner on Monday evening – 250 EUR
  (Invoices will be sent upon registration.)
- ☐ I am a PhD student: Registration fee sponsored by Thermo-Calc Software AB

Personal data

Name
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Telephone
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E-mail
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Affiliation
_____

Address
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REGISTRATION:

Registration deadline **October 1, 2023**. Please send the scanned registration form for this seminar via e-mail to nicholas@thermocalc.com

Please indicate any special requirements for food, such as allergies, vegetarian, non-dairy...

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