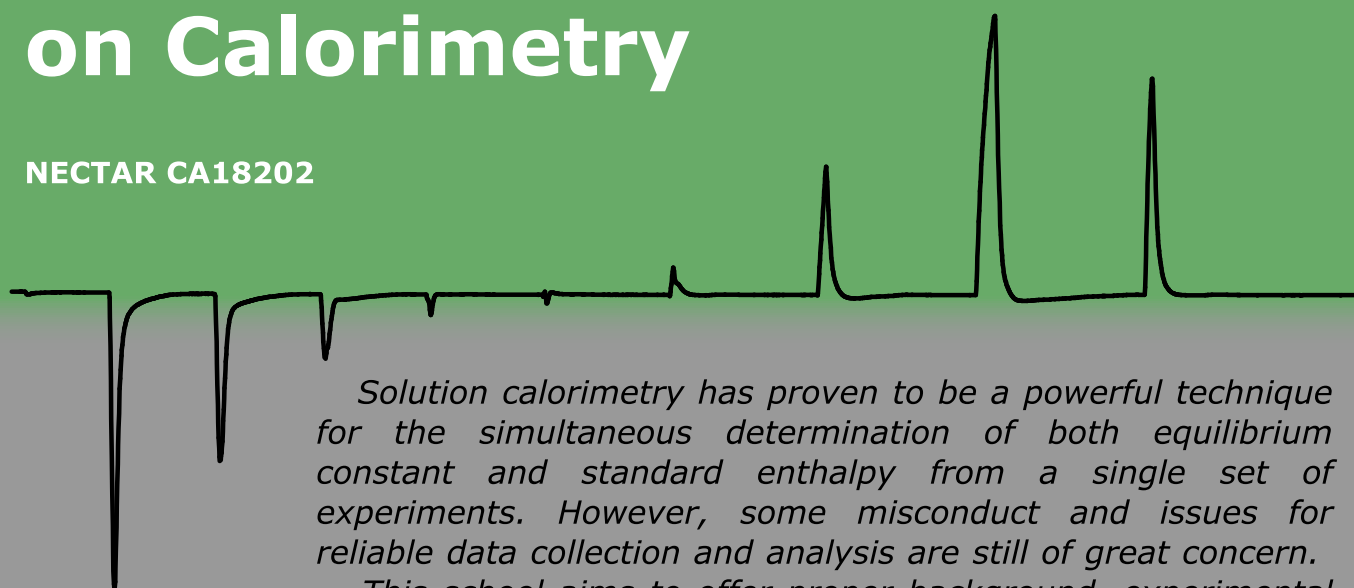


NECTAR Training School on Calorimetry

NECTAR CA18202



Solution calorimetry has proven to be a powerful technique for the simultaneous determination of both equilibrium constant and standard enthalpy from a single set of experiments. However, some misconduct and issues for reliable data collection and analysis are still of great concern.

This school aims to offer proper background, experimental tools and tips for accurate data collection and treatment as well as to train the solution thermodynamics brilliant minds of the future to promote good calorimetry laboratory practices.

August 27th, 2022

University of Ljubljana
Faculty of Chemistry and Chemical Technology
Ljubljana, Slovenia



Application Deadline: **July 22nd, 2022**

Registration: **cost.nectar@fkkt.uni-lj.si**

Max. Number of Participants (NECTAR CA18202 trainees): **15**

Programme:

08:45 **Opening**

09:00-10:00 **Peter VIKEGARD Waters Sverige AB**

Isothermal calorimetry: A discussion on measuring principles, systematic/random error, and experimental problems

10:00-11:00 **Carmelo SGARLATA University of Catania**

ITC for the study of host-guest systems: Issues related to multiple equilibria data fitting

---BREAK---

11:30-12:30 **Žiga MEDOŠ University of Ljubljana**

Detailed overview of using ITC to study micellization

12:30-13:30 **San HADŽI University of Ljubljana**

ITC with biomolecules: Successes and failures

---LUNCH---

15:00-16:00 **Andrea MELCHIOR University of Udine**

Titration calorimetry applied to the study of complex formation in solution and on surfaces

16:00-17:00 **Joel TELLINGHUISEN Vanderbilt University**

Better ITC by avoiding common pitfalls and misconceptions

---Q&A session---

17:30 **Practical demonstration in LAB**

Scientific Committee:

Marija BEŠTER-ROGAČ University of Ljubljana (Chair)

Carmelo SGARLATA University of Catania (Chair)

Demetrio MILEA University of Messina (NECTAR CA18202 Action Chair)

Sofia GAMA University of Bialystok (NECTAR CA18202 Vice Chair)

Enrique GARCÍA-ESPAÑA University of Valencia (NECTAR CA18202 TS Coordinator)