

## Dedicated to:

....students (MSc, PhD), post docs or professionals involved in the study of solution equilibria and the analysis of relevant thermodynamic parameters.

The well-known computer science motto of “garbage-in garbage-out” perfectly holds also for chemical thermodynamics.

Researchers working in this field need high-quality data to obtain high-quality results. Analogously, any subject dealing with chemical thermodynamics needs high-quality data and models to ensure their robustness for high-quality applications.

**SOLvE** in an **online** training school which will help people dealing with solution equilibria in promoting good laboratory practices. Experienced professors will provide focused theoretical background, practical aspects and tips for high-quality experimental data collection and clues for robust data analysis through different models and protocols (ranging from Excel to more specialised software). The main experimental approaches for solution equilibria will be presented and discussed. Applications of each technique to cutting-edge research will be also highlighted.

## Organized by:



## Chairs:

Tarita Biver

University of Pisa (IT)

Sofia Gama

University of Białystok (PL)

Demetrio Milea

University of Messina (IT)

Carmelo Sgarlata

University of Catania (IT)

## NECTAR CA18202 Supervision:

Enrique García-España University of Valencia (ES)  
TS Coordinator

## Important info:

**Deadline:** 24<sup>th</sup> June 2022

**Registration fee:** 30 €

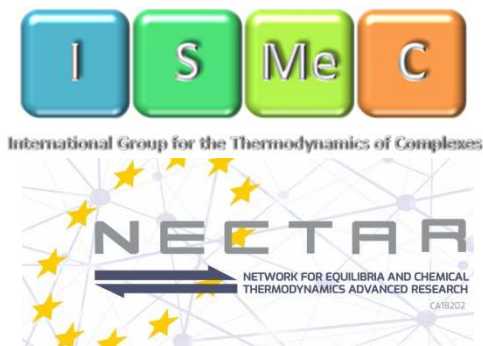
**15 NECTAR CA18202 free slots available**

### Registration fee includes:

- Topic lectures
- Training material

**Min number of participants required: 10**

Contact – Info – Registration:



## 2<sup>nd</sup> ISMEC-NECTAR Training School

on the  
Determination, Analysis and Use  
of Thermodynamic Data



Advances in  
**SOLution Equilibria**



International Group for the Thermodynamics of Complexes



## 2<sup>nd</sup> ISMEC-NECTAR Training School

on the  
Determination, Analysis and Use  
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Advances in  
**SOL**ution Equilibria

July 25<sup>th</sup>-27<sup>th</sup>, 2022



- ✓ INTRODUCTION TO EQUILIBRIA
- ✓ FOCUSED TOPICS
- ✓ THEORY & PRACTICE
- ✓ APPLICATIONS

A lecture will introduce the framework for a correct approach to chemical speciation in solution

Then, the school will focus on the theoretical background and practical information for the study of solution equilibria by using:

- electrochemical techniques
- spectroscopic/spectrometric techniques
- calorimetric techniques

Also, experienced researchers will present their applications in nowadays research

[www.cost-nectar.eu](http://www.cost-nectar.eu)

## PROGRAMME (CET time)

| July 25 <sup>th</sup>  | July 26 <sup>th</sup>   | July 27 <sup>th</sup>  |
|--|---|--|
| <b>10:00-10:10</b><br>Opening  | <b>9:30-10:50</b><br>EXAFS<br>Theory,<br>Applications &<br>Software         | <b>9:30-10:20</b><br>Calorimetry<br>Instrumentation<br>& Data Analysis |
| <b>10:20-11:20</b><br>Introduction to<br>Solution<br>Equilibria      |   | <b>10:30-11:20</b><br>Calorimetry<br>Main Issues &<br>Case Studies     |
| <i>Coffee Break</i>  |   |  |
| <b>11:40-12:40</b><br>Theoretical<br>Calculations for<br>Speciation  | <b>11:10-12:30</b><br>Fluorescence<br>Theory,<br>Applications &<br>Software | <b>11:40-12:30</b><br>Calorimetry<br>Applications                      |
| <b>12:40-13:00</b><br>Q&A  | <b>12:40-13:00</b><br>Q&A   | <b>12:30-13:00</b><br>Q&A/Closing                                      |
| <i>Lunch Break</i>   |   |  |
| <b>15:00-16:20</b><br>Voltammetry &<br>Potentiometry<br>Theory       | <b>15:00-16:20</b><br>EPR<br>Theory,<br>Applications &<br>Software          |  |
| <i>Coffee Break</i>  |   |  |
| <b>16:40-18:00</b><br>Voltammetry &<br>Potentiometry<br>Applications | <b>16:40-18:00</b><br>EPR<br>Applications &<br>Software                     |  |
| <b>18:00-18:30</b><br>Q&A  | <b>18:00-18:30</b><br>Q&A   |  |

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