


 COST Action CA18202  
 COST Association

 COST Grant System  
 18 October 2019

## Action CA18202 Fact Sheet

### Title

Network for Equilibria and Chemical Thermodynamics Advanced Research

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### Details

Draft Mou:	OC-2018-2-23144	Mou:	019/19
Start of Action:	02/10/2019	Entry into force:	27/06/2019
End of Action:	01/10/2023	CSO approval date:	04/06/2019

### Objectives

The thermodynamic study of chemical equilibria represents the core of many important branches of chemistry. Coordination and supramolecular chemistry, chemical speciation, molecular modelling, drug design are just few examples. The importance of chemical equilibria, and chemical thermodynamics in general, results from the simple assertion that many properties of elements and compounds depend mainly on their interactions in a given system: the biological activity of an element or molecule, or their environmental impact can be explained by a detailed study of these interactions, whose nature and strength can be evaluated by chemical equilibrium and other thermodynamic studies. For example, speciation modelling based on chemical equilibrium data is commonly used in to improve commercial products performances, investigate the mobility of pollutants and toxicants in the environment, optimize industrial processes, explain the mechanisms of action of biologically active substances. Furthermore, advanced thermodynamic studies yield deeper insights into the mechanisms of these interactions.

NECTAR will combine the expertise of the large community of specialists working in this field, creating a network based on the stimulating collaboration between them, promoting knowledge exchange, and achieving high technological progress. All this will be accomplished through a fruitful collaboration between young researchers and experienced scientists, taking into consideration gender balance and maximal geographical distribution. Innovative and integrated theoretical and experimental approaches will be established and optimized. Overall, the outstanding quality of obtained results will serve as benchmark for next decades, allowing their application in the above-mentioned fields and substantially impacting on life quality of next generations.



Parties							
Country	Date	Country	Date	Country	Date	Country	Date
Belgium	10/09/2019	Croatia	18/07/2019	Czech Republic	10/07/2019	Denmark	04/09/2019
France	25/06/2019	Germany	02/07/2019	Hungary	02/07/2019	Iceland	27/06/2019
Italy	27/06/2019	Lithuania	24/07/2019	Malta	27/06/2019	Moldova	13/08/2019
North Macedonia	17/09/2019	Poland	25/06/2019	Portugal	03/07/2019	Romania	04/10/2019
Serbia	12/07/2019	Slovenia	01/07/2019	Spain	22/07/2019	Switzerland	25/06/2019
Turkey	26/06/2019						

Total: 21

Intentions to accept the MoU							
Country	Date	Country	Date	Country	Date	Country	Date

Total: 0

Working Groups
None

Website
None

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