



COST Action CA18202
COST Action

COST Grant System
30 May 2021

Action CA18202 Fact Sheet

Title

Network for Equilibria and Chemical Thermodynamics Advanced Research

Contacts

MC Chair	Science Officer:	Administrative Officer:
Prof Demetrio MILEA Tel. +390906765758 dmilea@unime.it	Dr Monica PEREZ-CABERO COST Association monica.perez@cost.eu +32 (0) 479 60 01 38	Ms Carmencita MALIMBAN COST Association carmencita.malimban@cost.eu +3225333842

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.

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Parties							
Country	Date	Country	Date	Country	Date	Country	Date
Albania	31/03/2021	Austria	28/04/2020	Belgium	10/09/2019	Bosnia and Herzegovina	10/07/2020
Bulgaria	28/11/2019	Croatia	18/07/2019	Czech Republic	10/07/2019	Denmark	04/09/2019
Estonia	26/04/2020	Finland	15/04/2020	France	25/06/2019	Germany	02/07/2019
Greece	07/04/2020	Hungary	02/07/2019	Iceland	27/06/2019	Ireland	18/02/2020
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	Slovakia	25/10/2019	Slovenia	01/07/2019	Spain	22/07/2019
Switzerland	25/06/2019	Turkey	26/06/2019	United Kingdom	17/05/2021		

Total: 31

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

Total: 0

Working Groups
None

Website
http://www.cost-nectar.eu

Management Committee	
Chair	Vice Chair
Prof Demetrio MILEA Universita degli Studi di Messina V.le F. Stagno d'Alcontres 31 98166 Messina Italy dmilea@unime.it	Dr Sofia GAMA University of Bialystok ul. Ciolkowskiego 1K 15-245 Bialystok Poland sofia.gama@uwb.edu.pl

Albania
Prof Patricia DALIU MC Member (not yet registered) p.daliu@albanianuniversity.edu.al PENDING

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Austria	
Prof Vladimir ARION MC Member University of Vienna Institute of Inorganic Chemistry, Währinger Strasse 42 A-1090 Vienna Austria vladimir.arion@univie.ac.at	

Belgium	
Dr Oreste TODINI MC Member Procter & Gamble Services NV Temselaan 100 1853 Strombeek Bever Belgium todini.o@pg.com	Dr Alberto MARTINEZ BECARES MC Member Procter & Gamble Belgium Procter and Gamble Innovation Center , Temselaan 100 1853 Strombeek Bever Belgium martinez.a.49@pg.com

Bosnia and Herzegovina	
Prof Dijana JELIC MC Member University of Banjaluka Bulevar vojvode Bojovica 1a 78 000 Banjaluka Bosnia and Herzegovina dijana_jelic@hotmail.com	Dr Adnan ZAHIROVIC MC Member University of Sarajevo Faculty of Science Zmaja do Bosne 35 71000 Sarajevo Bosnia and Herzegovina zahirovic_adnan@yahoo.com

Bulgaria	
Prof Liudmil ANTONOV MC Member Institute of Electronics 72, Tzarigradsko chaussee blvd. BG-1784 Sofia Bulgaria liudmil.antonov@gmail.com	Prof Nikolay TZVETKOV MC Member Institute of Molecular Biology Acad. G.Bonchev Str, bl. 21 1113 Sofia Bulgaria ntzvetkov@gmx.de

Croatia	
Dr Vilko MANDIC MC Member Faculty of Chemical Engineering and Technology Marulicev trg 19 10000 Zagreb Croatia vmandic@fkit.hr	Dr Elvira BURA-NAKIC MC Member Ruder Boskovic Institute Bijenicka 54a 10 000 Zagreb Croatia ebnakic@irb.hr
Ms Irena IVANISEVIC MC Substitute Faculty of chemical engineering and technology Marulicev trg 19 Zagreb Croatia ivanisevic@fkit.hr	Prof Tamara HOLJEVAC GRGURIC MC Substitute Tamara Holjevac Grguric Ilica 242 10000 Zagreb Croatia tamara.grguric@unicath.hr

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Czech Republic	
<p>Prof Petr HERMANN MC Member Charles University Hlavova 2030, Faculty of Science, Department of Inorganic Chemistry 12840 Prague 2 Czech Republic petrh@natur.cuni.cz</p>	<p>Prof Premysl LUBAL MC Member Masaryk University Department of Chemistry, Faculty of Science, Kotlarska 2 CZ-61137 Brno Czech Republic lubal@chemi.muni.cz</p>
<p>Dr Vojtech KUBICEK MC Substitute Charles University, Faculty of Science Hlavova 2030 CZ-12840 Prague 2 Czech Republic kubicek@natur.cuni.cz</p>	
Denmark	
<p>Dr Stefan STURUP MC Member University of Copenhagen Dept. of Pharmacy, Universitetsparken 2 DK-2100 Copenhagen Denmark stefan.sturup@sund.ku.dk</p>	
Estonia	
<p>Dr Ivo LEITO MC Member University of Tartu 14a Ravila str 50411 Tartu Estonia ivo.leito@ut.ee</p>	
Finland	
<p>Prof Carita KVARNSTROM MC Member University of Turku Vatsetankatu 2 FI-20014 Turku Finland carkva@utu.fi</p>	<p>Prof Timo REPO MC Member University of Helsinki Department of Chemistry, A. I. Virtasen aukio 1 FIN-00014 Helsinki Finland timo.repo@helsinki.fi</p>
<p>Dr Juho HELAJA MC Substitute University of Helsinki A.I.Virtasen aukio 1 00014 Helsinki Finland juho.helaja@helsinki.fi</p>	<p>Dr Pia DAMLIN MC Substitute pia.damlin@utu.fi</p>
France	

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<p>Dr Olga IRANZO MC Member Institut des Sciences Moleculaires de Marseille UMR CNRS 7313 ISM2/BiosCiences case 341, Aix-Marseille Universite, Campus Scientifique de Saint Jerome, Avenue Escadrille Normandie-Niemen F-13397 Marseille France olga.iranzo@univ-amu.fr</p>	<p>Dr Michel MEYER MC Member CNRS Universite de Bourgogne, UMR 6302 du CNRS, 9, avenue A. Savary 21078 DIJON France michel.meyer@u-bourgogne.fr</p>
<p>Dr Maria Rosa BECCIA MC Substitute Institut de Chimie de Nice 28, Avenue Valrose 06108 Nice France maria-rosa.beccia@univ-cotedazur.fr</p>	<p>Dr Veronika ZINOVYEVA MC Substitute Institute of Nuclear Physics of Orsay 15 rue Georges CLEMENCEAU, Bat. 100 91406 Orsay France zinovyeva@ipno.in2p3.fr</p>
<p>Prof Veronique HUBSCHER MC Substitute IPHC (UMR 7178) 25 Rue Becquerel 67087 Strasbourg France veronique.hubscher@unistra.fr</p>	

Germany	
<p>Prof Winfried PLASS MC Member Friedrich-Schiller-Universitat Jena Humboldtstrasse 8 07743 Jena Germany sekr.plass@uni-jena.de</p>	<p>Prof Fritz KUHN MC Member Technische Universitat Munchen Molekulare Katalyse, Lichtenbergstr. 4 85747 Garching bei Munchen Germany fritz.kuehn@ch.tum.de</p>
<p>Dr Axel BUCHHOLZ MC Substitute Friedrich-Schiller-Universitat Jena Institut fur Anorganische und Analytische Chemie, Humboldtstrasse 8 07743 Jena Germany axel.buchholz@uni-jena.de</p>	<p>Prof Angela CASINI MC Substitute Technical University of Munich Lichtenbergstr. 4 85748 Garching Germany angela.casini@tum.de</p>

Greece	
<p>Dr Konstantina YANNAKOPOULOU MC Member National Center for Scientific Research "Demokritos" Patriarchou Gregoriou & 27 Neapoleos str. 15341 Aghia Paraskevi Attikis Greece k.yannakopoulou@inn.demokritos.gr</p>	

Hungary	

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<p>Dr Eva Anna ENYEDY MC Member University of Szeged, Faculty of Science and Informatics, Institute of Chemistry Dom ter 7. 6720 Szeged Hungary enyedy@chem.u-szeged.hu</p>	<p>Prof Katalin VARNAGY MC Member University of Debrecen University of Debrecen, Department of Inorganic and Analytical Chemistry, Egyetem ter 1. H-4032 Debrecen Hungary varnagy.katalin@science.unideb.hu</p>
<p>Dr Orsolya DOMOTOR MC Substitute University of Szeged Dom ter 7 H-6720 Szeged Hungary domotor.o@chem.u-szeged.hu</p>	<p>Dr Linda FOLDI-BIRO MC Substitute University of Debrecen Egyetem ter 1. 4032 Debrecen Hungary linda.biro@science.unideb.hu</p>

Iceland	
<p>Prof Sigridur SUMAN MC Member University of Iceland Dunhagi 3 107 Reykjavik Iceland sgsuman@hi.is</p>	

Ireland	
<p>Dr Darren GRIFFITH MC Member Royal College of Surgeons in Ireland 123, St. Stephensn Green., Dublin 2, Ireland Dublin 2 Dublin Ireland dgriffith@rcsi.ie</p>	

Italy	
<p>Prof Matteo TEGONI MC Member University of Parma Parco area delle Scienze 11A 43124 Parma Italy matteo.tegoni@unipr.it</p>	<p>Prof Antonio BIANCHI MC Member University of Florence Via della Lastruccia, 3 50019 Sesto Fiorentino Italy antonio.bianchi@unifi.it</p>
<p>Dr Erika FERRARI MC Substitute University of Modena and Reggio Emilia via Campi, 103 41125 Modena Italy erika.ferrari@unimore.it</p>	<p>Prof Tarita BIVER MC Substitute University of Pisa Via Moruzzi, 13 56124 Pisa Italy tarita.biver@unipi.it</p>

Lithuania	

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<p>Dr Urte SAMUKAITE BUBNIENE MC Member Vilnius University Naugarduko str 24 03225 Vilnius Lithuania urte.samukaite-bubniene@chf.vu.lt</p>	<p>Prof Arunas RAMANAVICIUS MC Member State Scientific Research Institute Center for Physical Sciences and Technology Sauletekio av. 3., Vilnius, Lithuania LT-10222 Vilnius Lithuania arunas.ramanavicius@chf.vu.lt</p>
<p>Dr Vilma RATAUTAITE MC Substitute CENTER FOR PHYSICAL SCIENCES AND TECHNOLOGY (FTMC) Sauletekio av. 3 LT-10257 Vilnius Lithuania vilma.ratautaite@gmail.com</p>	<p>Dr Almira RAMANAVICIENE MC Substitute Vilnius University Naugarduko str.24 LT-03225 Vilnius Lithuania almira.ramanaviciene@chf.vu.lt</p>

Malta	
<p>Prof Ulrich BAISCH MC Member University of Malta Department of Chemistry, University of Malta MSD 2080 Msida Malta ulrich.baisch@um.edu.mt</p>	

Moldova	
<p>Prof Igor POVAR MC Member Institute of Chemistry 3 Academiei MD2028 Chisinau Moldova ipovar@yahoo.ca</p>	<p>Prof Aculina ARICU MC Member Institute of Chemistry 3, Academiei MD 2028 Chisinau Moldova aculina.aricu@gmail.com</p>
<p>Ms Oxana SPINU MC Substitute Institute of Chemistry 3, Academiei str. MD2028 Chisinau Moldova oxana_spinu@yahoo.com</p>	<p>Dr Raisa NASTAS MC Substitute Institute of Chemistry Academiei str., 3 MD 2028 Chisinau Moldova nastasraisa@yahoo.com</p>

North Macedonia	
<p>Prof Aleksandar CVETKOVSKI MC Member Faculty of Medical Sciences, University Goce Delcev Krste Misirkov 10-A 2000 Stip 2 North Macedonia aleksandar.cvetkovski@ugd.edu.mk</p>	<p>Prof Roman GOLUBOVSKI MC Member University Ss. Cyril and Methodius Gazi Baba bb 1000 Skopje North Macedonia roman.golubovski@t.mk</p>

Poland	

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<p>Prof Elzbieta GUMIENNA-KONTECKA MC Member University of Wrocław F. Joliot-Curie 14 50-383 Wrocław Poland elzbieta.gumienna-kontecka@chem.uni.wroc.pl</p>	<p>Dr Sofia GAMA MC Member University of Białystok ul. Ciołkowskiego 1K 15-245 Białystok Poland sofia.gama@uwb.edu.pl</p>
<p>Dr Joanna MASTERNAK MC Substitute Jan Kochanowski University in Kielce Świętokrzyska 25-406 Kielce Poland joanna.masternak@ujk.edu.pl</p>	<p>Mr Mateusz JAKUBOWSKI MC Substitute mjakub@doktorant.umk.pl</p>
<p>Prof Iwona LAKOMSKA MC Substitute Nicolaus Copernicus University in Torun Gagarina 7 87 100 Torun Poland iwolak@chem.umk.pl</p>	

Portugal

<p>Prof Isabel CAVACO MC Member Universidade do Algarve DQF - FCT, edifício 2, Universidade do Algarve, Campus de Gambelas 8005-139, Gambelas Faro Portugal icavaco@ualg.pt</p>	<p>Prof M. Amelia SANTOS MC Member Instituto Superior Técnico, Universidade de Lisboa Av Rovisco Pais, 1 1049-001 Lisboa Portugal masantos@tecnico.ulisboa.pt</p>
<p>Dr Andreia LEITE MC Substitute REQUIMTE Faculdade de Ciências, Departamento de Química e Bioquímica, Rua do Campo Alegre s/n 4169-007 Porto Porto Portugal acleite@fc.up.pt</p>	<p>Dr Carlos BERNARDES MC Substitute Universidade de Lisboa Centro de Química Estrutural, Departamento de Química e Bioquímica, Faculdade de Ciências Universidade de Lisboa, Campo Grande 1749-016 Lisboa Portugal cebernardes@fc.ul.pt</p>

Romania

<p>Prof Alina Adriana MINEA MC Member Technical University "Gheorghe Asachi" from Iasi Bd. D. Mangeron no. 63 700050 Iasi Romania aminea@tuiasi.ro</p>	<p>Dr Dana BEJAN MC Member "Petru Poni" Institute of Macromolecular Chemistry Iasi , Aleea Gr. Ghica Voda 41A, RO 700487 700487 Iasi Romania bejan.dana@icmpp.ro</p>
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Serbia

<p>Dr Tatjana TRTIC-PETROVIC MC Member Vinca Institute of Nuclear Sciences Mike Petrovic Alasa 12-14 11351 Belgrade Serbia ttrtic@vinca.rs</p>	<p>Prof Slobodan GADZURIC MC Member University of Novi Sad, Faculty of Sciences Trg Dositeja Obradovica 3 21000 Novi Sad Serbia slobodan.gadzuric@dh.uns.ac.rs</p>
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<p>Dr Aleksandra DIMITRIJEVIC MC Substitute Vinca Institute of Nuclear Sciences Mike Petrovica Alasa 12-14 11000 Belgrade Serbia daleksandra@vin.bg.ac.rs</p>	<p>Dr Milan VRANES MC Substitute University of Novi Sad Trg Dositeja Obradovica 3 21000 Novi Sad Serbia milan.vranes@dh.uns.ac.rs</p>
---	--

Slovakia	
<p>Dr Zuzana VARGOVA MC Member zuzana.vargova@upjs.sk</p>	<p>Prof Peter RAPTA MC Member Slovak University of Technology in Bratislava Radlinskeho 9 81237 Bratislava Slovakia peter.rapta@stuba.sk</p>

Slovenia	
<p>Prof Iztok TUREL MC Member University of Ljubljana Vecna pot 113 1000 Ljubljana Slovenia iztok.turel@fkkt.uni-lj.si</p>	<p>Prof Marija BESTER-ROGAC MC Member University of Ljubljana Vecna pot 113 1000 Ljubljana Slovenia marija.bester@fkkt.uni-lj.si</p>

Spain	
<p>Dr Natalia BUSTO MC Member Universidad de Burgos Pza. Misael Banuelos s/n 09001 Burgos Spain nbusto@ubu.es</p>	<p>Prof Enrique GARCIA-ESPANA MC Member Universidad de Valencia Instituto de Ciencia Molecular, Calle Catedratico Jose Beltran no. 2. 46890 Paterna (Valencia) Spain enrique.garcia-es@uv.es</p>
<p>Prof Miquel BARCELO OLIVER MC Substitute Universitat de les Illes Balears Campus UIB, carretera Valldemossa km 7.5, Building: Mateu Orfila 07639 Palma de Mallorca Spain miquel.barcelo@uib.es</p>	<p>Dr Montserrat LOPEZ-MESAS MC Substitute Universitat Autònoma de Barcelona FACULTAT CIENCIES CN 08193 BELLATERRA Spain montserrat.lopez.mesas@uab.cat</p>
<p>Dr Daniel SALAVERA MC Substitute (not yet registered) daniel.salavera@urv.cat PENDING</p>	

Switzerland

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<p>Dr Montserrat FILELLA MC Member University of Geneva Institute F.-A. Forel, Route de Suisse 10 1290 Versoix Switzerland montserrat.filella@unige.ch</p>	<p>Prof Eva FREISINGER MC Member University of Zurich Department of Chemistry B, Winterthurerstrasse 190 8057 Zurich Switzerland freisinger@chem.uzh.ch</p>
---	---

Turkey	
<p>Dr Sabriye AYDINOGLU MC Member Cukurova University Department of Analytical Chemistry, Faculty of Pharmacy, Cukurova University 01330 Adana Turkey sabriyeaydinoglu@gmail.com</p>	<p>Prof Emel YILDIZ MC Member Cukurova University Cukurova Univ Arts&Sci Faculty , Dept of Chem 01330 Adana Turkey eeeyildiz05@gmail.com</p>
<p>Dr Burak AY MC Substitute Cukurova University Science and Arts Faculty 01330 Adana Turkey bay@cu.edu.tr</p>	

United Kingdom	
<p>Prof Ramon VILAR MC Member Imperial College London South Kensington SW7 2AZ London United Kingdom r.vilar@imperial.ac.uk</p>	

COST Near Neighbour Countries	
<p>Dr Alina Gorlova Ukraine Enamine Limited Liability Company (Enamine LLC) a.gorlova@mail.enamine.net</p>	<p>Dr Anna Pavlishchuk Ukraine Taras Shevchenko National University of Kyiv annpavlis@chem.knu.ua</p>

Grant Holder: Università degli Studi di Messina- Italy	
<p>GH Scientific Representative Prof Demetrio Milea GH Scientific Representative GH-CA18202-1 dmilea@unime.it</p>	<p>GH Financial Representative Dr Maria Tama GH Financial Representative GH-CA18202-1 mtama@unime.it</p>
<p>GH Legal Representative Prof Salvatore Cuzzocrea GH Legal Representative GH-CA18202-1 salvator@unime.it</p>	<p>GH Manager/Administrator Dr Giuseppa Scarfi GH Manager/Administrator GH-CA18202-1 gscarfi@unime.it</p>

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