

## COST Action CM1206

# WG 2 Newsletter 4 – August 2015

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Our community is still growing! At the moment, 102 researchers are member of our working group 2 with a gender balance of 31/71. Almost all of you have already registered at our website [www.usc.es/exil](http://www.usc.es/exil). Please do not forget to complete your *Researcher Profile* (link at the bottom of the homepage) – this will help other colleagues to know you and your work better. You can *also* subscribe to *other working groups* of this COST Action. Nevertheless, please also inform the leaders of that working group since the webpage does not do this automatically. If you need a letter of confirmation that you are already member of WG2, please let us know:

Margarida Costa-Gomes: [margarida.costa-gomes@univ-bpclermont.fr](mailto:margarida.costa-gomes@univ-bpclermont.fr)

Christian Schröder: [christian.schroeder@univie.ac.at](mailto:christian.schroeder@univie.ac.at)

At the discussion forum of WG2 (<http://www.usc.es/exil/forum/3>) you find:

1. Previous periodic newsletters
2. Presentations of our Workgroup sessions
3. Guidelines to propose a *Research Action* in WG2.

Furthermore, you may advertise your recent papers, start a discussion, ask or offer short term missions or place job opportunities. You may also make suggestions. We also like to draw your attention to the news feed on publications arising from COST research activities. If you have publications acknowledging COST action CM1206, please send a copy to [josefa.fernandez@usc.es](mailto:josefa.fernandez@usc.es).

## WG2 – Workshop “Ionic liquids at interfaces”

We would like to draw your attention to our next joint workshop “Ionic liquids at interfaces” in Belek, October 3<sup>rd</sup>-5<sup>th</sup> 2015. This workshop of working group 2 and 3 explores and focuses on overlaps between physio-chemical, theoretical and practice-oriented research in our COST action. Important sessions concern

- “*ionic liquid at electrodes*” covering both, physico-chemical assessment and modelling of ionic liquids as well as the design and application of ionic liquids as electrolytes and
- “*nano-materials in ionic liquids*” dealing with self-organization and structural dynamics of ionic liquids and its impact on (nano-)material preparation. Aspects of theoretical chemistry, e.g. modelling of nanoparticles-ionic liquid interfaces, physico-chemical characterization as well as applied aspects like catalysis with nanomaterials in ionic liquids will be discussed.

There are still open slots for oral presentations, so please apply or suggest other European researchers per email to [christian.schroeder@univie.ac.at](mailto:christian.schroeder@univie.ac.at) or [katharina.bica@tuwien.ac.at](mailto:katharina.bica@tuwien.ac.at).

## Last COST CM1206 Managing Committee Meeting

The last Managing Committee (MC) meeting took place in Prague (Czech Republic) in April 2015. Our COST action consists of more than 160 members from 26 participating European countries. Currently, 45 members are appointed as Managing Committee. There will be Managing Committee Meetings twice a year in combination with a workshop of one of the four working groups.

1. Short term mission of students from one working group member to another is strongly encouraged and the budget for these missions has been raised in the budget for the current year. In principle, three month stays of your students can be funded with a maximum of 2500 EUR including accommodation and travel costs. Detailed information on “Short term missions” including deadlines and application forms can be found at <http://www.usc.es/exil/stsm>. Please take special care when filling the forms and strictly obey the instructions, since incomplete applications will be rejected. Furthermore, the travelling dates of a short term mission cannot be changed, once the mission was granted. You have to re-apply. Short term mission will be reviewed by two researchers within two weeks.
2. The imbalance between members in WG1-WG4 was discussed, but reassignment of research topics and reorganization of members was deemed not to be a critical point.
3. The goals of COST action CM1206 are given in the memorandum of understanding [http://w3.cost.eu/fileadmin/domain\\_files/CMST/Action\\_CM1206/mou/CM1206-e.pdf](http://w3.cost.eu/fileadmin/domain_files/CMST/Action_CM1206/mou/CM1206-e.pdf). In order to have reasonable scientific output, we ask for your help! Please apply to organize a research action.
4. Please send publications, posters and talks acknowledging COST CM1206 to [josefa.fernandez@usc.es](mailto:josefa.fernandez@usc.es). In particular, publications will be referenced on the home page attracting interest from other COST members to your work.
5. The next MC meeting will be in Antalya in October 5<sup>th</sup>, followed by a second meeting in spring in Poland.

## Research Actions in WG2

### 1. “Electrostatics of ionic liquids and their mixtures”

Our first action concerns electrostatics of ionic liquids and their mixtures and is chaired by Prof. Varela ([luismiguel.varela@usc.es](mailto:luismiguel.varela@usc.es)) and Prof. Cabeza ([oscabe@udc.es](mailto:oscabe@udc.es)). This is a study combining theoretical and experimental tools to provide answers to this very important point of the physical chemistry of ionic liquids. Prof. Varela and Prof. Cabeza have gathered a very active group of scientists holding several meetings per year applying for various European H2020 calls. For more information please visit <http://www.usc.es/exil/node/28> or write them, if you are interesting in joining this call.

### 2. “New polarizable force field on ionic liquids”

This action aims to combine our efforts for developing a new polarizable force field on the basis of the well-known non-polarizable force field of Prof. Canongia Lopes and Prof. Padua. We are still working on a force field conversion tool between AMBER, CHARMM, DLPOLY and GROMACS on a XML basis including polarizable parameters. We are looking for experts in LAMMPS and TINKER to join.

The groups of Prof. Canongia Lopes and Ass.-Prof. Schröder are currently developing new polarizability parameters which fit to the general and transferable force field strategy of the Canongia Lopes-Padua force field.

For further information please contact Christian Schröder (christian.schroeder@univie.ac.at).

We would like to advertise more joint experimental research activities within WG2. Please feel free to send your research call(s). Detailed instructions can be found at <http://www.usc.es/exil/node/14>.

## Next Scientific Meetings

### 1. Joint EMLG/JMLG annual meeting

- Rostock, Germany, September 6<sup>th</sup>-10<sup>th</sup> 2015
- Molecular liquids meet ionic liquids
- <http://www.emlg2015.org>

### 2. COST CM1206 meeting (including scientific sessions of WG2 and WG3)

- Belek (near Antalya) , Turkey, October 3<sup>rd</sup>-5<sup>th</sup> 2015
- “Ionic liquids at interfaces”
- Workgroup sessions for working groups 2 and 3.

### 3. 3<sup>rd</sup> International Symposium on Sustainable Molten Salt and Ionic Liquid Processing

- Antalya, Turkey, October 4<sup>th</sup>-8<sup>th</sup> 2015
- <http://www.flogen.org/sips2015/Molten>

### 4. 26<sup>th</sup> EUCHEM on Molten Salts and Ionic Liquids

- Vienna, Austria, July 3<sup>rd</sup>-8<sup>th</sup> 2016
- COST CM1206 sessions

*“Turn the ions around!”*

