



# EuCheMS Divisions/WPs: Report and a Look Forward

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## Divisions and Working Parties

- Division of Analytical Chemistry
- Division of Chemical Education
- Division of Chemistry and the Environment
- Division of Chemistry in Life Sciences
- Division of Computational Chemistry
- Division of Food Chemistry
- Division of Inorganic Chemistry
- Division of Nuclear and Radiochemistry
- Division of Organic Chemistry
- Division of Organometallic Chemistry
- Division of Physical Chemistry
- Division of Solid State and Materials Chemistry
- Working Party on Chemistry and Energy
- Working Party on Chemistry for Cultural Heritage
- Working Party on Green and Sustainable Chemistry
- Working party on Ethics in Chemistry
- Working Party on the History of Chemistry



## General Observations from the Reports

- Overall activity of the Divisions and Working Parties is broad
- Dedication of the responsible people is visible and outstanding
- Activities require no budget from EuCheMS



## • Division of Analytical Chemistry

Chair:	Paul Worsfold (UK)
Vice-Chair:	-
Secretary:	Wolfgang Buchberger (Austria)
Treasurer:	Jin Barnek (Czech Rep.)
Members:	36
Countries:	28

### Highlights and Future Plans:

- EUROANALYSIS XVII, Warsaw (August 25-29, 2013)
- EUROANALYSIS XVIII, Bordeaux (September 6-10, 2015)
- 42<sup>th</sup> Annual Analytical Column (published in 5 journals, January 2014)  
Chemometrics and Analytical Chemistry
- 5 active **Study Groups**:
  - Education in Analytical Chemistry
  - Quality Assurance and Accreditation
  - History
  - Bioanalytics
  - Chemometrics
- **Task Force** on Archeometry and Cultural Heritage

- **Long term activities**: EUROANALYSIS Conf., DAC governance, enhancing visibility



## ■ Division of Chemical Education

Chair:	Iwona Maciejowska (Poland) 2014-17
Vice-Chair (East.Eur.):	Dragica Tiviic (Serbia)
(West. Eur.):	Mariann Holmberg (Finland)
Secretary:	Paul Yates (UK)
Members:	25+1
Countries:	25

### Highlights and Future Plans:

- 18 national Annual Reports were published (see website)
- European Conference on Research in Chemical Education (Jyväskylä) July 7-10, 2014
- Divisional Conference Eurovariety 2015 (June 29-July 1, 2014 (Tartu/Tallin, Estonia)
- Cooperation with ECTN and EC<sub>2</sub>E<sub>2</sub>N
- Contributions to Transparency Database of Study Programs
- Contributions to ECC-6
- **Long term activities:** Cooperation with IUPAC Committee on Chemical Education  
Development of partnerships for third countries for EU applications and exchange of information.





- Division of Chemistry and the Environment

Chair:	Walter Giger (Switzerland) 2009-14
Vice-Chair:	Ake Bergman (Sweden) 2009-14
Secretary:	Willem de Lange (The Netherlands)
Treasurer:	-
Members:	28
Countries:	24

### Highlights and Future Plans:

- Environmental Science and Pollution Research (ESPR)
- 14<sup>th</sup> International Conference on Chemistry and the Environment 2013 (ICCE 2013)
- EuCheMS Chemistry Congress (ECC 2014): 2 parallel sessions, 90 talks, poster awards
- Survey on University Education in Environmental Sciences (published in *Environ. Sci. Pollut. Res.*, 2014, 21 (11, June), 7211–7218)
- 15<sup>th</sup> International Conference on Chemistry and the Environment (ICCE 2015) Leipzig (Germany), September 22-25 (2015)
- Specialist Conference on Contaminated Sediments (ContaSed 2015) Ascona (Switzerland) March 8-13, 2015





## • Division of Chemistry in Life Sciences

Chair:	Paola Turano (Italy) (2012-2014)
Vice-Chair:	Nicholas Westwood (UK)
Secretary:	-
Treasurer:	Ernest Giralt (Spain)
Members:	16
Countries:	16

### Highlights and Future Plans:

- DCLS has a strong connotation in bio-inorganic chemistry, drug screening and structural biology
- Strong contributions to ECC-5: In total 9 sessions were organized with three of these being in the area of the "synthesis and use of imaging reagents".  
"Overall this was a very exciting and well attended part of the congress"
- 2<sup>nd</sup> European Biological Inorganic Chemistry Conference (EuroBIC 12), Aug. 2014 Zurich (Switzerland)
- Coordination of the formation of a metabolomic consortium that is proposing itself as an expert center in metabolomics for the Biobanking community
- 6<sup>th</sup> European Conference on Chemistry for Life Sciences (Lisbon, June 10-12, 2015)
- School on Discovery of Novel Targets in Medicine and Biology (Caparica, June 8-9 2015).
- Strengthen relationships with EU Research Infrastructures to promote networking



## • Division of Computational Chemistry

Chair:	Antonio Laganà, (Italy)
Vice-Chair:	Péter Szalay (Hungary)
Secretary:	Frank Oellien (Germany)
Treasurer:	-
Members:	27
Countries:	22

### Highlights and Future Plans:

- ECC-5 (spread over various sessions)
- Involvement in several conferences (ESOR 2013, STC2013, Grid training workshop for molecular sciences (Rome, 2013), German Conference on Chemoinformatics 2013, Fock-Meeting 2014 (Samara, Russia), preparations of EUCCO-CC10 Conference.
- Joint activities with the Erasmus Mundus Master TCCM; ECTN Learning Objects (LO), with EC2E2N for developing proposals for strengthening students' skills in entrepreneurship.

The DCC provided support to the proposal for an ITN TCCM Doctorate (Horizon 2020) – approved by EU September 2014.

- Several contributions to 2013 Euehems Newsletter
- Support of aggregation of several communities in a Virtual Research Community.
- Editorial activities (Journal of Molecular Modeling)





## • Division of Food Chemistry

Chair:	Livia Sarkadi (Hungary) 2012-2014 Marco Arlorio (Italy) 2015-2017
Secretary:	Michael Murkovic (Austria) 2012-2014
Treasurer:	Marius Piskula (Poland) 2009-2014 Irena Vovk (Slovenia) 2015-2017
Members:	64+1
Countries:	35

### Highlights and Future Plans:

- Elections for term 2015-2017 (new Chair, Secretary, Treasurer)
- Conferences: Euro Food Chem XVII, 7.5. – 10.5.2013, Istanbul, Turkey  
EuroAnalysis 2013 Conference, 25.8. – 29.8.2013, Warsaw, Poland  
Recent Advances in Food Analysis, 5.11. – 8.11.2013, Prague, Czech Rep.  
38<sup>th</sup> International Symposium on Environmental Analytical Chemistry  
17.-20.6.2014, (Lausanne Switzerland)  
13<sup>th</sup> International Symposium: Prospects for the 3<sup>rd</sup> Millennium Agriculture,  
25.9. – 27.9.2014, Cluj, Romania  
Eurofoodchem XVIII, 2015, Madrid/Spain; October 13-16, 2015  
Euro Food Chem XIX, Budapest, 2017, Euro Food Chem XX, Porto, 2019,  
Euro Food Chem XXI, Belgrade, 2021
- Intense exchange with other organizations (EFFOST, SAFE, ISEKI, ECTNA, Codex Alimentarius, EuroFedLipid)



## • Division of Inorganic Chemistry

Chair:	Anna Trzciak (Poland)
Vice-Chair:	-
Secretary:	Konrad Herbst (Denmark)
Treasurer:	-
Members:	16
Countries:	16

### Highlights and Future Plans:

- Preparation of EICC-3 (EuCheMS Inorganic Chemistry Conference) Wroclaw (2015)
- Clear roadmap for future conferences:  
EICC-4 will be organized in 2017 in Kopenhagen  
EICC-5 in 2019 in Moscow
- Discussion about the position and role of inorganic chemistry as an area of increasing importance



## ■ Division of Nuclear and Radiochemistry

Chair:	Nick Evans (UK)
Vice-Chair:	
Secretary:	Jan John (Czech Republic)
Treasurer:	
Members:	23
Countries:	23

### Highlights and Future Plans:

- Long-term plans for conferences are found on the web-site (until 2021)
- No report received

#### **Divisional events**

##### **17<sup>th</sup> Radiochemical Conference (RadChem 2014)**

11 - 16 May 2014

Marianske Lazne, Czech Republic

Website: <http://www.radchem.cz/>

##### **9<sup>th</sup> International Conference on Nuclear and Radiochemistry (NRC-9)**

end of August 2016 (dates to be confirmed)

Helsinki, Finland



## • Division of Organic Chemistry

Chair:	Ilan Marek (Israel)
Vice-Chair:	
Secretary:	Veronique Gouverneur (UK)
Treasurer:	Nick Gathergood (Ireland)
Members:	27
Member Societies:	27

### Highlights and Future Plans:

- International Summer School on Organic Synthesis "A. Corbella", June 15-19, 2014, Brescia (Italy)

6<sup>th</sup> EuCheMS Organic Division Young Investigators Workshop (Larnaca Cyprus, August 26-30, 2014): 24 participants from 3 continents and 21 nations (22 academic institutions and 2 companies).

Topics: total synthesis of natural products, organocatalysis, transition metal catalysis, materials, new reactive intermediates, new chemical space, computations and bioorganic & medicinal chemistry



Ischia Advanced School of Organic Chemistry, September 21-25, 2014, Naples (Italy)

- No report received.



## • Division of Organometallic Chemistry

Chair:	Jan Cermak (Czech Rep.)
Past-Chair:	Helena Grennberg (Sweden)
Secretary:	
Treasurer:	Kees Elsevier (since 2014)
Members:	22
Member Societies:	24

### Highlights and Future Plans:

- Elections (September 03, 2014): New Division Chair and Treasurer
- XXI EuCOMC (July 5-9, 2015): Bratislava (Slovakia).
- XX EuCOMC (June 30-July 4, 2013): St. Andrews (450 participants)
- Contributions to ECC-5 (Istanbul): preparation of themes „Synthesis and Catalysis“ and „Materials“, proposal of conveners and invited speakers, poster awards
- since 2013: Informal Zero Budget Workshops on Organometallic Chemistry (Helsinki (2013), Oslo (2014), Lund (2015)).
- September 5-9, 2015: 10<sup>th</sup> Int. School of Organometallic Chemistry Camerino (Italy).
- Science Award for achievements in Organometallic Chemistry (from 2015)
- Future contributions to ECC, policy making



## • Division of Physical Chemistry

Chair:	Eckart Rühl (Germany) 2012-17
Vice-Chair:	Dusan Velic (Slovakia) 2012-14 Salvatore Coluccia (Italy) 2015-17
Steering Committee:	7 members
Members:	21
Member Societies:	18

### Highlights and Future Plans:

- Elections (August 2014): Division Chair and Vice-Chair  
Division Meeting: September 02, 2014 (Istanbul)
- Increase of members (2014)
- Inclusion of activities in Electrochemistry
- ECC-5: suggestions for program, 5 poster awards
- 1<sup>st</sup> European Conference on Physical, Theoretical and Computational Chemistry (Catania (Italy), September 06-11, 2015) – to be continued in odd years
- Development of a support scheme for national conferences
- Future contributions to ECC, development of educational standards in physical chemistry



- **Division of Solid State and Materials Chemistry**

Chair:	Martin Jansen (Germany)
Vice-Chair:	Paul Attfield (UK)
Secretary:	Antoine Maignan (France)
Members of Ex. Board:	5
Members:	21
Member Societies:	19

### **Highlights and Future Plans:**

- Division since 2012 (First Meeting: July 09, 2013)
- 15<sup>th</sup> European Conference on Solid State Chemistry (ECSSC XV)  
Vienna (Austria, August 23-26, 2015).



## • Working Party on Chemistry and Energy

Chair:	Nicola Armaroli (Italy)
Vice-Chair:	
Secretary:	
Treasurer:	
Members:	12
Countries:	10

### Highlights and Future Plans:

- European Energy Conference (October 2013)
- Session on Energy Materials at ECC-5 (Istanbul, Turkey, 2014)
- Collaboration with EPS, E-MRS, KIT in the organization of Energy Science & Technology Conference (Karlsruhe, Germany, 2015).
  
- Challenge: Widening the number of societies and delegates (esp. from France, The Netherlands, Belgium, etc.
  
- Future: Organization of joint symposia with other Divisions/WPs at ECC-6
- Propose EuCheMS roadmaps on specific energy topics to be proposed to EU for funding in the frame of Horizon 2020.





## • Working Party on Chemistry for Cultural Heritage

Chair:	Rocco Mazzeo (Italy)
Vice-Chair:	
Secretary:	
Treasurer:	
Members:	14
Countries:	13

### Highlights and Future Plans:

- Meeting in Vienna (Austria), July 2, 2014
- Discussion on the proposal to establish a WG in Analytical Chemistry in Archaeometry and Cultural Heritage – no need for this is seen.
- 4<sup>th</sup> International Congress in Chemistry for Cultural Heritage (ChemCH-2016) Brussels (Belgium) July 5-9, 2016 (5<sup>th</sup> meeting: Gothenburg (Sweden) 2018).
- Next meeting 2015 at BAM (Berlin, Germany).



## • Working Party on Green and Sustainable Chemistry

Chair:	Pietro Tundo (Italy)
Vice-Chair:	
Secretary:	Luigi Vaccaro (Italy)
Treasurer:	
Members:	18
Member Societies:	15

### Highlights and Future Plans:

- First meeting 2008 (Rome)
- Minutes from meeting July 5, 2013 (Brussels)  
EC actions (Horizon 2020 and Spire)  
Budapest 1<sup>st</sup> EUGSC conference  
Activities between the EuCheMS WP and other European and International entities.



- Working party on Ethics in Chemistry

Chair:	Hartmut Frank (Germany)
Vice-Chair:	
Secretary:	
Treasurer:	
Members:	34
Member Societies:	12

### Highlights and Future Plans:

- Prominent members.
- No report received.

#### Honorary Members

*Prof. Dr. Carl Djerassi Prof. Dr. Richard Ernst Prof. Dr. Roald Hoffmann*



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- Working Party on the History of Chemistry

Chair:	Brigitte Van Tiggelen (Belgium)
Vice-Chair:	Anette Lykknes (Norway)
Secretary:	
Treasurer:	
Members:	26
Countries:	18

### Highlights and Future Plans:

- 9<sup>th</sup> International Conference for the History of Chemistry (9ICHC), August 22-25, 2013 (Uppsala, Sweden) “Chemistry on Material Culture”
- Organization of a session at European Symposium in the History of Science, Lisbon, September 2-4, 2014 on the translation and appropriation of Pauling’s ground breaking textbook « The Nature of Chemical Bond » in post WWII European chemical curricula
- Upcoming Meeting: The 2015 edition of ICHC will take place in Aveiro (Portugal), September 9-11, 2015.
- Ongoing re-organization:  
Renewing national delegation, and recruiting new delegates connecting to the other EuCheMS Divisions, and participating in EuCheMS activities;  
Appointing observers from other institutions and groups devoted to the history of chemistry.



# European Young Chemists Network

Chair:	Frederique Backaert (Belgium)
Vice-Chair:	
Secretary:	Aurora Walshe
Treasurer:	Frederique Backaert
Members:	27 (>30,000)
Member Societies:	22

## Highlights and Future Plans:

- EYCN Career Days at ECC-5 (Istanbul (Turkey))
- Career networking reception
- ACS-Younger Exchange Program with Chemists' Committee (ACS-YCC)
- Young Chemists Crossing Borders (YCCB)
  
- 9<sup>th</sup> Delegate Assembly in Bucharest, Romania (April 28, 2014)
  
- EYCN Poster Award to acknowledge excellent research performed by young chemists increases the visibility of their work.
  
- Organizing the 10<sup>th</sup> Delegate Assembly (April 2015, Berlin)
  
- Preparations for ECC-6 (Sevilla (Spain) 2016).



## Reflections on ECC-5 (Istanbul 2014)

### **Positive**

- Impressive scientific program
- Heroic effort of all organizers as well as Helena Grennberg and her team to run the conference smoothly
- Many young people and guests from abroad



## Perspectives for ECC-6 (Sevilla 2016)

- **Peter Edwards** made already an excellent effort for setting the scene for the scientific program.
- All **Divisions and Working Parties** are active and successful on a European scale.
- **Early planning** *including* the Divisions and Working Parties appears to be a natural choice for shaping the program to reach highest scientific standards and to reach internal cohesion of EuCheMS.
- **General goal** to get the communities motivated to join this conference while offering a sound scientific program.



## Other Observations

- **Proposal by David Cole-Hamilton** to share the financial risk and surplus of conferences for the benefit of gaining freedom to push important activities according to the needs of the community  
  
-> Mixed responses from the Divisions
- **Interactions between the Divisions and Working Parties**  
Have the potential to be further improved.
- **Web-Pages of Divisions and Working Parties**  
A regular update would be beneficial





## Conclusions

- The EuCheMS Divisions and Working Parties are driven by the enthusiasm of the responsible people.
- The scope of activities is impressive and broad.
- There is still space for improvements.
- The General Assembly gives us time for shaping EuCheMS.