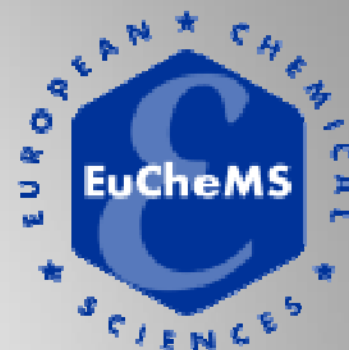


# EuCheMS



## European Chemical Sciences

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EuCheMS Divisions/WPs:  
Report and a Look Forward

Eckart Rühl

GA, Vienna, September 2015

Freie Universität Berlin, Germany

# 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

EYCN

# General Observations from the Reports

- Overall activity of the Divisions and Working Parties is on a constant high level.
- Activities require no budget from EuCheMS and it is impressive what can be done without funds.
- 417 delegates of EuCheMS Member Societies were counted (without EYCN).



# Thank YOU

- EuCheMS as THE institution holding European Chemistry together.
- EuCheMS Member Societies for continuous support.
- Division and WP Chairs for their dedication to EuCheMS.
- Active members pushing the ideas of EuCheMS forward.



# Reports

- Distilled from written reports within a short time period.
- Finally, I received ALL reports.
- Apologies for missing items, mistakes, or biased preferences.

# Division of Analytical Chemistry (DAC)

## Highlights and Future Plans:

- EUROANALYSIS XVIII, Bordeaux (September 6-10, 2015)
- EUROANALYSIS 2017 (Stockholm)
- 43<sup>rd</sup> Annual Analytical Column (published in 5 journals in 2015):  
Metrology in Analytical Chemistry (by Ivo Leito, Estonia)

- 6 active **Study Groups**:

Education in Analytical Chemistry  
Quality Assurance and Accreditation  
History  
Bioanalytics  
Chemometrics  
Archeometry and Cultural Heritage

Chair:	Paul Worsfold (UK) – 2011-2016
Vice-Chair:	-
Secretary:	Wolfgang Buchberger (Austria)
Treasurer:	Jiri Barnek (Czech Rep.)
Members:	36
Countries:	28

- **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 (DAC)
Countries:	26



## Highlights and Future Plans:

- Divisional Conference Eurovariety 2015 (June 29-July 1, 2015 (Tartu/Tallin, Estonia)  
72 delegates from 33 countries (4 invited talks, 30 oral papers, 2 workshops, 10 posters)
- Progress in cooperation with ECTN and EC2E2N  
WP1: Towards Excellence in School and University Teaching
- Int. survey on how to get a degree in chemistry education is planned
- Knowledge-based platform on personal profiles of educators and range of topics related to teaching and learning of chemistry
- Guidebook for pre-service training for chemistry teachers
- Divisional conference September 7-10, 2016 in Barcelona
- **Long term activities:** Cooperation with IUPAC Committee on Chemical Education



# Division of Chemistry and the Environment



**AMERICAN CHEMICAL SOCIETY**  
DIVISION OF ENVIRONMENTAL CHEMISTRY

**ACSenvr**  
ACS Division of Environmental Chemistry



**Division of Chemistry  
and the Environment**

**CALL FOR PAPERS**

**Per- and Polyfluoroalkyl Substances Associated with Aqueous Film  
Forming Foams (AFFF): Chemistry, Remediation, and Regulatory Issues**

251<sup>st</sup> American Chemical Society National Meeting & Exposition  
San Diego, California  
March 13-17, 2016

GA, Vienna, September 2015

**EuCheMS**  
European Chemical Sciences



# Division of Chemistry and the Environment

Chair:	Santiago Luis (Spain) 2015-17
Vice-Chair:	-
Secretary:	Willem de Lange (The Netherlands)
Treasurer:	-
Members:	28
Countries:	24

## Highlights and Future Plans:

- Environmental Science and Pollution Research (ESPR): extraordinary growth
- 15<sup>th</sup> International Conference on Chemistry and the Environment (Leipzig, September 20-24, 2015), >450 participants from >30 countries
- 16<sup>th</sup> International Conference on Chemistry and the Environment 2017 (Oslo, N)
- Specialist Conference on Contaminated Sediments (ContaSed 2015) Ascona (Switzerland) March 8-13, 2015 – 80 participants (with DAC and others)
- AFFF Symposium 2016: San Diego (March 13-17, 2016) – W. Giger: co-organizer
- Division Meetings: Helsinki Feb. 28, 2015 and Leipzig Sept. 19, 2015.

# Division of Chemistry in Life Sciences

Chair:	Nick Westwood (UK) (2015-2017)
Vice-Chair:	
Secretary:	-
Treasurer:	Luc Brunsveld (The Netherlands)
Members:	14
Countries:	14

## Highlights and Future Plans:

- 6<sup>th</sup> European Conference on Chemistry for Life Sciences (Lisbon, June 10-12, 2015): 8 plenary lectures, 5 invited lectures, 60 talks, 17 countries represented.
- Co-ran a session with European Federation for Medicinal Chemistry
- Division Management meeting in Lisbon
- Advice for ECC-6
- Conferences: plan to run several smaller conferences in 2017 building towards a larger conference in 2019
- Establish a secure financial position for the EUCLS
- Increase activity to include additional events and tasks

# Division of Computational Chemistry

Chair:	Antonio Laganà, (Italy) 2013-2016
Vice-Chair:	
Secretary:	Frank Oellien (Germany)
Treasurer:	-
Members:	29
Countries:	26

## Highlights and Future Plans:

- EUCO-CC10 Conference (Fulda, Germany: Aug. 31-Sept. 4, 2015): 144 participants from 29 countries, 47 talks, 85 posters.
- Collaboration with ECTN is continued: DCC member societies are invited to analyze and adopt ECTN syllabus
- Proposal on Virtual Research Environment requires revisions and re-submission
- Spin-offs for software for use in training schools and sustainable entrepreneurship
- Sessions on Computational Chemistry at ECC-6 planned (unlike ECC-5).
- Support of aggregation of several communities in a Virtual Research Community.
- Conference on Theoretical Chemistry: Nottingham (UK), June 20-22, 2016



# Division of Food Chemistry

Chair:	Marco Arlorio (Italy) 2015-2017
Secretary:	Michael Murkovic (Austria) 2015-2017
Treasurer:	Irena Vovk (Slovenia) 2015-2017
Members:	64+1
Countries:	35

## Highlights and Future Plans:

- 15 conferences, 4 conf. planned
- Intense exchange with other organizations worldwide
- Challenge: re-design of delegate network
- Harmonization of scientific events
- Connections with other EuCheMS Divisions
- Design of a European Academic/Technical Network based on food skills.
- Internat. contacts increased
- Sketch of white papers

- ✓ Cocotea 2015, 22 – 24 June, 2015, Aveiro (PT) <http://www.cocotea2015.com/>
- ✓ 5<sup>th</sup> EuCheMS Chemistry Congress, August 31 August – 4 September 2014, Istanbul, Turkey <http://www.euchems2014.org/>
- ✓ 13<sup>th</sup> International Symposium: Prospects for the 3<sup>rd</sup> Millennium Agriculture, 20-27 September 2014, Cluj Napoca, Romania
- ✓ In Vino Analytica Scientia, 14-17 July, 2015, Trento (IT) <http://eventi.fmach.it/VAS2015>
- ✓ NUTRICON: Food Quality & Safety, Health & Nutrition 2014, 27-28 November, Skopje, Republic of Macedonia, <http://www.keyevent.org/>
- ✓ Recent Advances in Food Analysis (RAFA), 5-8 November 2015, Prague, Czech Republic
- ✓ NUTRICON 2015, 19-20 November 2015, Skopje, Republic of Macedonia
- ✓ 1<sup>st</sup> IMEKOFOODS October 12-15 October, 2014 Rome (IT), <http://imekofoods.enea.it/>
- ✓ 4<sup>th</sup> MS-Food Day 7-9 October 2015, Foggia (IT) <http://www.msfoodday.darepuglia.it/>
- ✓ ISEAC 38 (38<sup>th</sup> International Symposium on Environmental Analytical Chemistry) 1-20 June 2014 2014 Lausanne (CH) <http://www.iseac38.ch/>
- ✓ Special Parallel Session on Food Safety, co-organized by DFB Center (Novara, IT), SAFE CONSORTIUM (Bruxelles, B) and GICA-SCI/EuCheMS at Euro Food Chem XVIII – 13-16 October 2015, Madrid (Spain) <http://www.eurofoodchemxviiiimadrid2015.com/>
- ✓ 5<sup>th</sup> EuroDrying2015, 21-23 October 2015, Budapest (HCS), <http://www.eurodrying2015.mke.org.hu/>
- ✓ 67<sup>th</sup> Congress of Chemists, 7-11 September 2015, Starý Smokovec (SK), <http://www.plasticportal.eu/en/67th-congress-of-chemists/c/2836>
- ✓ 5<sup>th</sup> Trans-Atlantic Fisheries Technology Conference (45<sup>th</sup> WEFTA), 12-15 October, Nantes (F) <http://eventegg.com/taf-2015/>
- ✓ 12<sup>th</sup> Chemical Conference Greece-Cyprus, 8-12 May 2015, Thessaloniki, Greece (GCS) <http://greececyprus.blogspot.gr/>

# 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, June 28-July 1, 2015 – 3 parallel sessions, 2 poster sessions,  
230 participants
- Board Meeting during EICC-3 (Wroclaw):  
Cooperation between Organometallic Division and Inorganic Chemistry Division  
(esp. For ECC).
- Clear roadmap for future conferences:  
EICC-4 will be organized in 2017 in Copenhagen  
EICC-5 in 2019 in Vienna

# Division of Nuclear and Radiochemistry

Chair:	Nick Evans (UK) 2014-2016
Vice-Chair:	
Secretary:	Jan John (Czech Republic)
Treasurer:	
Members:	23
Countries:	23

## Highlights and Future Plans of DNRC:

- Preparations of ECC-6
- Preparation of 9th Int. Conf. on Nuclear and Radiochemistry (Helsinki, Aug. 29 – Sept. 02, 2016)
- DNRC has been appointed as the Formal Accrediting Body for the new EuroMaster Degree being created as part of the CINCH II project – Cooperation in education and training In Nuclear Chemistry (support within FP7)
- CINCH-II aims at mobilization of fragmented capabilities to implement courses and meet the nuclear chemistry postgraduate education and training needs of EU and has minimum requirements for EuroMaster in nuclear and radiochemistry.
- Division will evaluate Universities regarding minimum requirements.



# Division of Organic Chemistry

Chair:	Ilan Marek (Israel)
	since July 2015 Veronique Gouverneur (UK)
Vice-Chair:	
Secretary:	
Treasurer:	
Members:	27
Member Societies:	27

## Highlights and Future Plans:

- Election of new President and Executive Board (July 13, 2015, Lisbon)
- 7<sup>th</sup> EuCheMS Organic Division Young Investigator's Workshop (July 12-16, 2015, Lisbon) – 23 participants from 22 countries.
- 8<sup>th</sup> EuCheMS Organic Division Young Investigator's Workshop (2016: Huelva, Sp)
- Contributions to ECC-6 (Themes B, C, D, E, and H)
- Funding activities to secure the YIW events (Wiley, Synlett)
- Production of a glossy brochure to be used for raising funds.
- Next meeting: ECC-6

# Division of Organometallic Chemistry

Chair:	Jan Cermak (Czech Rep.) 2014-17
Vice-Chair:	Helena Grennberg (Sweden)
Secretary:	
Treasurer:	Kees Elsevier (since 2014)
Members:	22
Member Societies:	25

## Highlights and Future Plans:

- XXI EuCOMC (July 5-9, 2015): Bratislava (Slovakia):  
220 participants (56 speakers, 134 posters)  
XX EuCOMC (June 30-July 4, 2013: St. Andrews (450 participants))
- Science Award for achievements in Organometallic Chemistry to  
Malcolm Green (Oxford)
- Contributions to ECC-6 (Sevilla): suggestions of speakers and themes
- 3<sup>rd</sup> Nordic Meeting on Organometallic Chemistry, Lund (March 11-12, 2015):  
53 participants, 16 lectures – “zero budget”
- Next meeting: Iceland (2016)
- September 5-9, 2015: 10<sup>th</sup> Int. School of Organometallic Chemistry  
Camerino (Italy).

# Division of Physical Chemistry

Chair:	Eckart Rühl (Germany) 2012-17
Vice-Chair:	Salvatore Coluccia (Italy) 2015-17
Steering Committee:	7 members
Members:	23
Countries:	20

## Highlights and Future Plans:

- Further increase in delegates and member societies (2015)
- Active Steering Committee with 7 members
- 1<sup>st</sup> European Conference on Physical and Theoretical Chemistry (Catania (Italy), September 13-18, 2015): about 170 participants >70 oral presentations and ca. 100 posters, EuCheMS President joined for the opening
- 2<sup>nd</sup> European Conference on Physical and Theoretical Chemistry 2017: France
- Use of a support scheme for national conferences (3 conferences were supported in Austria and Germany)
- Contributions to shape the ECC-6 program
- Discussion of educational activities and educational standards in physical chemistry during General Assembly (September 15, 2015)



# 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:

- 15<sup>th</sup> European Conference on Solid State Chemistry (ECSSC XV)  
Vienna (Austria, August 23-26, 2015) – 350 participants, 9 plenary speakers,  
36 oral presentations, 280 posters
- 16<sup>th</sup> European Conference on Solid State Chemistry (ECSSC XVI): Glasgow 2017
- Division's research should be stronger represented in EuCheMS (ECC,  
program committees, and the Executive Board.
- Gender issues: no female members in the int. Advisory Board of ECSSC – to  
be changed

# WP on Chemistry and Energy

Chair:	Nicola Armaroli (Italy) since 2011
Vice-Chair:	
Secretary:	
Treasurer:	
Members:	15
Countries:	12

## Highlights and Future Plans:

- Energy Science & Technology Conference and Exhibition (Karlsruhe, Germany, May 20-22, 2015).  
>600 participants  
Follow-up conference is discussed (July 3, 2015)
- Challenge: Widening the number of societies and delegates
- Future: Organization of joint symposia with other Divisions/WPs at ECC-6
- Contributions to “Solar driven Chemistry” Discussion Meeting (Berlin, Oct. 9, 2015)
- Workshop on Endangered Chemical Elements at the European Parliament (September 22, 2015)
- Contributions to EuCheMS roadmaps on specific energy topics to be proposed to EU for funding in the frame of Horizon 2020.



# WP on Chemistry for Cultural Heritage

Chair:	Rocco Mazzeo (Italy)
Vice-Chair:	
Secretary:	
Treasurer:	
Members:	14
Countries:	12

## Highlights and Future Plans:

- 3<sup>rd</sup> Int. Congress in Chemistry for Cultural Heritage 2014 (Vienna, July 1-5, 2014)  
>150 participants
- Next conference: CheCH-2016 (Brussels, July 5-9, 2016)
- Meeting of Steering Committee: 2015 (Berlin)
- Long term: continuation of the core activities



# WP on Green and Sustainable Chemistry

Chair:	Peitro Tundo (Italy)
Vice-Chair:	
Secretary:	
Treasurer:	
Members:	24
Member Societies:	20

## Highlights and Future Plans:

- The WP is being to be considered to be promoted to a Division grade
- Most of the activities will be connected to this new status
- Discussion and projects among the new Division
- Congress will take place in Lisbon on October 4-8, 2015

# WP on Ethics in Chemistry

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

## Highlights and Future Plans:

- Symposium in Frankfurt (Sept. 25-26, 2015)  
Carl Djerassi – In Memoriam
- **Topics:**
  - Ethical Implications of Chemistry in Science, Industry, Society and Culture
  - The role of Chemists in ethical reflection and decision-making
  - Dimensions of Ethical and Social Implications of Chemistry

## Honorary Members

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



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† Jan. 30, 2015

# WP on History in Chemistry

**Chair<sup>1</sup>:** Dr Brigitte Van Tiggelen (Société Royale de Chimie, Frenchspeaking Belgian Chemical Society, B), 2013

**Vice-Chair:** Professor Annette Lykknes (Norwegian Chemical Society), 2009

**Secretary :** Dr Ignacio Suay-Mattallana (Royal Spanish Society), 2015

**Members<sup>2</sup>:** Members: 26 active delegates, 150 members

**Countries<sup>3</sup>:** 21 countries represented by 35 delegates (Austria, Belgium, Czech Republic, Denmark, Estonia, France, Germany, Greece, Hungary, Ireland, Italy, Lithuania, the Netherlands, Norway, Poland, Portugal, Russia, Serbia, Spain, Sweden, United Kingdom) and 15 observers

- National delegations and representatives
- Working structure of the WPHC (board, taskgroups...)
- Connecting with other EuCheMS groups
  - DivChemEd
  - WP Ethics in Chemistry
  - WP Chemistry for Cultural Heritage
  - ...
- Connecting with other non EuCheMS groups (observers)
- Survey of the History of Chemistry in Europe
  - 2007 Report in the frame of Bologna reform
  - Extended beyond teaching
  - Ongoing preliminary results discussed in Aveiro

10<sup>th</sup> International Conference  
on the History of Chemistry

Aveiro, Portugal, 9-12 Sept. 2015

Theme « Chemical Biography in the  
21<sup>st</sup> Century”

Attendance

60 participants, 21 countries, 3 continents

3 key-notes, 53 papers in parallel sessions

Next ICHC (2017) : Trondheim, Norway



# European Young Chemists Network



Chair:	Fernando Gomollón Bel (Spain)
Vice-Chair:	
Secretary:	Camille Oger (France)
Treasurer:	-
Members:	27 (>30,000)
Member Societies:	22

## Highlights and Future Plans:

- EYCN Career Days at ECC-5 (Istanbul (Turkey))
- 10<sup>th</sup> Delegate Assembly in Berlin (April 2015) – elections
- 2015 Soft Skill Training Workshop (Berlin)
- 2015 Career Days (Madrid)
- 2015 Young Chemists Crossing Borders (YCCB): 6 young chemists traveled to 250<sup>th</sup> ACS Meeting in Boston
- Collaboration with Evonik (5,000.- EUR per year) for the next 3 years (used for internships, travel grants, delegate assemblies, program activities, etc.)
- 1<sup>st</sup> European Young Chemists Conference (Guimaraes 2016)
- Connections with industry
- Application for European Funding
- Creating a base for Int. Young Chemists Network

# ECC-6 (Sevilla 2016)

- **Peter Edwards** and his team made a substantial effort for shaping the scientific program.
- All **Divisions and Working Parties** are active and successful on a European scale. The processes are transparent and the communication is quite good.
- **Conveners:** were appointed – the acceptance level is partially not satisfactory. There is space for improving the concept further.
- **Our goal** must be to make this conference a success by motivating the communities to join this and future ECC-Conferences.
- **Joining ECC-6** is a must for everyone for scientific and networking reasons.

# Other Observations

- **Working Groups initiated by David Cole-Hamilton** in Torun were quite important for improving the internal discussion culture. The results of this process will be communicated later.
- **Joint activities between Divisions and Working parties** should be encouraged and enhanced on various levels beyond ECC.
- **Strength of EuCheMS** and its Divisions and Working Parties is the dedication to responsible activities in Chemistry.



# Conclusions

- The EuCheMS Divisions and Working Parties are active and the number of delegates is slightly increasing.
- The scope of activities remains on an outstandingly high level.
- The activities of the Divisions and Working Parties has still space for improvements, e.g. by increasing joint activities.
- We should make a joint effort to get the chemistry communities to ECC-6 and ECC-7.