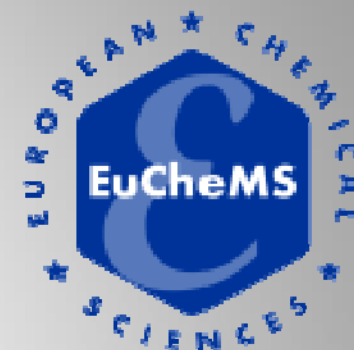


EuCheMS



European Chemical Sciences

EuCheMS Divisions/WPs:
Report and a Look Forward

Eckart Rühl

GA, Seville, September 2016

Freie Universität Berlin, Germany

Seville
2016

Divisions and Working Parties

☐ Divisions

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 Green and Sustainable Chemistry

☐ Divisions

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 Parties, EYCN

Working Party on Chemistry and Energy

Working Party on Chemistry for Cultural Heritage

Working Party on Ethics in Chemistry

Working Party on History of Chemistry

European Young Chemists' Network

General Observations from the Reports

- New initiatives and ideas are reported.
- Amazing breadth of activities.
- High level of dedication and enthusiasm.
- The Divisions and Working Parties are the scientific backbone of EuCheMS

Thank YOU

- The Chairs of EuCheMS Divisions and Working Parties for all the work and dedication to EuCheMS.
- EuCheMS Secretariat for assembling and communicating the material.
- EuCheMS Member Societies for continuous support.

Reports

- The received reports were written on a different level of detail (too much material for being communicated within the allocated time). This required an equilibration step for reaching a similar level of presentation.
- Apologies for missing items, mistakes, or biased preferences.

Division of Analytical Chemistry (DAC)

Highlights and Future Plans:

- EUROANALYSIS XVIII, Bordeaux (September 6-10, 2015) 700 participants from 56 countries
- EUROANALYSIS 2017 (Stockholm) (August 28-September 01, 2017)
- Annual Analytical Column: 2 Letters were published
- 6 active **Study Groups**:
 - Education in Analytical Chemistry, Quality Assurance
 - History, Bioanalytics, Chemometrics
 - Archeometry and Cultural Heritage
 - NEW: Nanoanalytics
- **DAC Strategy Document (2015-2017):**
 1. Promote the EUROANALYSIS series of conferences.
 2. Develop the profile of Analytical Chemistry.
 3. Review our governance and structure.
 4. Enhance the activities of Study Groups and Task Forces.

Chair:	Paul Worsfold (UK) – 2011-2016
Vice-Chair:	-
Secretary:	Wolfgang Buchberger (Austria) - 2017
Treasurer:	Jiri Barnek (Czech Rep.) - 2018
Members:	60 (24 observers)
Countries:	27

Division of Chemical Education

Highlights and Future Plans:

- European Conference on Research in Chemistry Education 2016 “Inspiring Science Education through Research” organized by Catalan Chemical Society under the umbrella of DivCEd EuCheMS September 7-10, 2016 in Barcelona 180 delegates from >40 countries
- New publication prepared in cooperation with EC2E2N (Towards excellence in school and university teaching) “A Guidebook of Good Practice for the Pre-Service Training of Chemistry Teachers”
- Contributions to the EC2E2N database on the methods and experts in tertiary education for linking university teachers with colleagues
- ECC-6: Responsible Research and Innovation in Chemical Education workshop
- John Dalton Symposium organized together with WP on History of Chemistry
- 7th Eurovariety 2017 „Challenges for chemical education in a changing world” Belgrad (Serbia) June 26-28, 2017.

Chair:	Iwona Maciejowska (Poland) 2014-17
Vice-Chair (East.Eur.):	Dragica Tiviic (Serbia)
(West. Eur.):	Mariann Holmberg (Finland)
Secretary:	election: September 08, 2016
Members:	31 (incl. 2 observers)
Countries:	25

Division of Chemistry and the Environment

Highlights and Future Plans:

- Environmental Science and Pollution Research (ESPR): 1900 articles published (6000 submissions)
- Special Issue publications on Conferences (ESPR, Chimia): ContraSed 2015, ICCE 2015, AFFF Symposium (with ACS)
- Position Paper with EuCheMS on 'Chemistry and Climate Change'
- 15th International Conference on Chemistry and the Environment (Leipzig, September 20-24, 2015), >450 participants from >30 countries
- 16th International Conference on Chemistry and the Environment 2017 (June 18-22, 2017, Oslo, Norway)
- 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
- Multiple Division Meetings, collaborations with DAC and DGSC.

Chair:	Santiago Luis (Spain) 2015-17
Vice-Chair:	-
Secretary:	Willem de Lange (The Netherlands)
Treasurer:	Roland Kallenborn (Norway) 2016-18
Members:	27
Countries:	23

Division of Chemistry in Life Sciences

No new report was delivered

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

Highlights and Future Plans:

- 6th 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

Highlights and Future Plans:

- EUCO-CC10 Conference (Fulda, Germany: Aug. 31-Sept. 4, 2015):
2017 Conference: Barcelona (Spain) Organizer Carles Bo.
- Building a virtual community for computational chemists: Building a common European infrastructure (SUMO CHEM, submission March 2016) and participating to a flagship project for a European Open Science Cloud
- Editing an e-magazine (VIRT&L-COMM)
- Dedicated sessions at ECC-6 (Theme F-4)
- Collaboration with ECTN is continued: DCC member societies comply with the ECTN recommended good practices in e-learning and to apply for the ECTN Eurolabels®
- European Joint Conferences, schools, and research initiatives.
- Change in name: 'Division of Computational and Theoretical Chemistry'
- Software for use in training schools and sustainable entrepreneurship
- Next Division Meeting: Barcelona (September 2017)

Chair:	Antonio Laganà, (Italy) 2013-2016
Vice-Chair:	
Secretary:	Frank Oellien (Germany)
Treasurer:	-
Members:	32
Countries:	28

Division of Food Chemistry

Highlights and Future Plans:

- **Congress organization:** 26 congresses are mentioned (2015-2017)
- **Teaching Activity:** 2017 First School of Food Chemistry Division (topic and location to be defined). Target: Young people, vision: annual event.
- **Awards and Fellowships:** Distinctions for young food-chemists (4th MS-Food Day (free registration); free entry to the next Congress Editor of PIF 2019 (Germany); Czedik-Eisenberg Award: Awarded to a young food chemist at the Austrian Food Chemistry Days.
- **Lobbying Activity:** Regarding political decisions on Food Quality and Safety Area (also in collaboration with other European non-profit Scientific Organizations); collaboration with DAC, First Pan European Meeting on Food Quality and Safety (2017); ongoing contacts with FDA.
- **Writing and editing:** "Food Chemistry and Food Safety in Europe"
- Revision of the database; harmonization of events; Annual Meetings

Chair:	Marco Arlorio (Italy)	2015-2017
Secretary:	Michael Murkovic (Austria)	2015-2017
Treasurer:	Irena Vovk (Slovenia)	2015-2017
Members:	64+1	
Countries:	40 (including non-European countries)	

Division of Inorganic Chemistry

Highlights and Future Plans:

- Preparation of EICC-4 (EuCheMS Inorganic Chemistry Conference) Copenhagen, July 2-5, 2017
The organizational scheme, main topics, and invited speakers were specified
- EICC-5: Vienna 2019 (July 2-5)
- Discussion started about the project of a Division website as the forum of exchange information between partners.

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

Division of Nuclear and Radiochemistry

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 for EuroMaster in nuclear and radiochemistry.

The aim of the NRC EuroMaster are to give the European NRC students good common knowledge and skills in nuclear and radiochemistry and thereby harmonize, at a minimum level, the teaching programs in European universities.

Chair:	Nick Evans (UK) 2014-2016
Vice-Chair:	
Secretary:	Jan John (Czech Republic)
Treasurer:	
Members:	23
Countries:	24

Division of Organic Chemistry

Highlights and Future Plans:

- 8th EuCheMS Organic Division Young Investigator's Workshop that will take place on September, 16-17, 2016 in Huelva, Spain. Participants from 23 countries, Funding by Synlett
- Glossy brochure to broadcast the activities of the division
- Contributions to ECC-6 (Themes B, C, D, E, and H)
- Divisional meeting: at ECC-6
- Long term activities focused on the young part of the community.

Chair:	Veronique Gouvaneur (UK)
Vice-Chair:	
Secretary:	Gianluca M. Farinola
Treasurer:	
Members:	27
Member Societies:	27

Division of Organometallic Chemistry

Highlights and Future Plans:

- September 5-9, 2015: 10th Int. School of Organometallic Chemistry Camerino (Italy) (130 young participants from 20 countries).
- XXII EuCOMC (2017): Amsterdam
- Contributions to ECC-6 (Sevilla): suggestions of speakers and themes
- European Prize for Organometallic Chemistry every two years
"for a single piece of outstanding work or for a body of outstanding work primarily done in Europe including Turkey and Israel". Next call: Fall 2016

Chair:	Jan Cermak (Czech Rep.) 2014-17
Vice-Chair:	
Secretary:	Helena Grennberg (Sweden)
Treasurer:	Kees Elsevier (2014-17)
Members:	23 (1 observer)
Countries:	23

Division of Physical Chemistry

Highlights and Future Plans:

- 1st European Conference on Physical and Theoretical Chemistry (Catania (Italy) September 13-18, 2015): about 170 participants – Selected papers were published in a Special Issue of Z. Phys. Chem.
- 2nd European Conference on Physical Chemistry 2017: Borgo (Corsica, France) September 23-27, 2017
- Support of national conferences:
 - International Winter School on Molecules at Surfaces (Villaggio Olimpico di Bardonecchia, Italy): 31.01.-05.02.2016.
 - International Conference on Dermal Drug Delivery by Nanocarriers (Berlin, Germany): 14.-16.03.2016.
 - 2nd Erwin Schrödinger Symposium 2016 (Vienna, Austria): 23.-25.05.2016.
- Contributions to shape the ECC-6 (and ECC-7) program
- Discussion of core activities in physical chemistry during General Assembly (September 12, 2016)
- Preparation of elections

Chair:	Eckart Rühl (Germany) 2012-17
Vice-Chair:	Salvatore Coluccia (Italy) 2015-17
Steering Committee:	7 members
Members:	23
Countries:	18

Division of Solid State and Materials Chemistry

No new report was delivered

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:

- 15th European Conference on Solid State Chemistry (ECSSC XV) Vienna (Austria, August 23-26, 2015) – 350 participants, 9 plenary speakers, 36 oral presentations, 280 posters
- 16th 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

Highlights and Future Plans:

- Workshop on Endangered Chemical Elements, in collaboration with members of the European Parliament, led by Ian Duncan (MEP).
EuCheMS premises, Brussels, September 22, 2015
- Preparation of the White Paper Solar-Driven Chemistry, in collaboration with German DFG. Brainstorming Workshop, Berlin, October 9, 2015
- Participation to the Circular Economy Mission upon invitation of Danel Calleja, Director General for the Environment of the European Commission.
Santiago (Chile), April 25-26, 2016
- Participation to the Circular Economy Mission in China, Beijing, November 2016
- Planning of the Energy Science & Technology Conference 2018, Karlsruhe
- Contribution to EuCheMS roadmaps on specific energy topics (Horizon 2020)
- Efforts to widen the societies represented in the WP.

Chair:	Nicola Armaroli (Italy) since 2011
Vice-Chair:	
Secretary:	
Treasurer:	
Members:	13
Countries:	11

WP on Chemistry for Cultural Heritage

Highlights and Future Plans:

- 4th International Congress in Chemistry for Cultural Heritage (ChemCH-2016) (Brussels, July 5-9, 2016)
- Keep continuing the organization of the Congresses in Chemistry for Cultural Heritage on biennial basis and try to improve the participation of other members from other European Chemical Societies as WP delegates.
- The 5th edition of the International Congress in Chemistry for Cultural Heritage (ChemCH-2018) will probably take place in Sweden.

A final decision will be made on the occasion of the next 2016 Brussels Steering Committee.

Chair:	Rocco Mazzeo (Italy) (-2018)
Vice-Chair:	
Secretary:	
Treasurer:	
Members:	14
Countries:	12

Division of Green and Sustainable Chemistry

Highlights and Future Plans:

- **New Division:** The Division of Green and Sustainable Chemistry (DGSC) was approved by EuCheMS in 2015.
- Drafting the procedures and practice guidelines for the Division.
- DGSC has worked closely with the Division of Chemistry and the Environment (DCE). Their assistance in drafting the policy and practices is acknowledged.
- The Division webpage has been updated.
- 2nd EuCheMS Green and Sustainable Chemistry: Lisbon (Fall 2015)
- 3rd EuCheMS Green and Sustainable Chemistry: University of York (UK) (2017)

Chair:	Nicholas Gathergood	(-2019)
Vice-Chair:		
Secretary:	Katalin Barta	(-2019)
Treasurer:	James Sullivan	(-2019)
Members:	25 (1 observer)	
Member Societies:	19	

WP on Ethics in Chemistry

No new report was delivered

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

Highlights and Future Plans:

- 10th International Conference for the History of Chemistry (10ICHC), September 9-12, 2015 (Aveiro, Portugal) – Publication of proceedings.
- ECC-6: John Dalton 250th Anniversary Symposium
- 11th International Conference on the History of Chemistry (11ICHC) August 29-September 02, 2017 (Trondheim, Norway)
- ECC-7: Start of preparations
- Ongoing: Internal and external reorganization, renewing national delegation, and recruiting new delegates from countries not yet represented
- Connecting to the other EuCheMS divisions (WP Ethics in Chemistry, WP Chemistry for Cultural Heritage, Division for Chemical Education)
- Connecting with the sister division of EPS
- Appointing observers from other institutions (e.g. Society for the History of Alchemy and Chemistry, International Society for the Philosophy of Chemistry, Japanese Society for the History of Chemistry, ACS, Division for the History of Chemistry)
- Survey of the History of Chemistry in Europe

Chair:	Brigitte Van Tiggelen (Belgium)
Vice-Chair:	Anette Lykknes (Norway)
Secretary:	
Treasurer:	
Members:	50 (incl. 15 observers)
Countries:	21

European Young Chemists Network



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

Events and Future Plans:

- EYCN Career Days at ECC-5 (Istanbul (Turkey))
- 10th 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 250th 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.)
- 1st European Young Chemists Conference (Guimaraes 2016)
- Connections with industry
- Application for European Funding
- Creating a base for Int. Young Chemists Network

Conclusions

- The EuCheMS Divisions and Working Parties are active there is a clear increase in activities beyond the requested scope visible:
 - Conversion of WP into Divisions
 - Interactions between Divisions and working parties
 - Strengthening EU policy
 - World-wide networking
 - Research Proposals for receiving funding
 - New research activities
 - Strengthening of national conferences
 - Publication activities
 - Educational efforts
 - Awards