

EuCheMS



European Chemical Sciences

European Association for Chemical
and Molecular Sciences

YEAR BOOK 2017



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Editorial



Welcome to the EuCheMS 2017 Yearbook!

It has been a great joy for me to serve as President of EuCheMS for the last 3 years and to meet so many fascinating, generous and highly motivated people.

When I was elected President-Elect in Budapest in 2013, I was warmly welcomed by the whole Executive Board and General Assembly, led by Ulrich Schubert (then President), Franco De Angelis (then Treasurer) and Nineta Hrastelj (General Secretary). Since then I have visited many of you in your Member Societies, Divisions and Working Parties and have always been greeted with great affection and support. That is the real strength of EuCheMS. It is a community of chemists from 33 different countries all with different backgrounds, problems and personalities but with a shared commitment to improving chemistry and the lives of chemists in your countries and research areas. It has been a huge privilege to be able to work with you and I am certain that you will give the same warm welcome to Pilar Goya as she starts her term as President and to Eckart Rühl, who has already taken over as Treasurer.

I hope that my time will be characterised by the building of a stronger more inclusive common purpose so that the European Chemical Society (EuChemS), as it is to be known, will be a much more effective centre coordinating the work of our Member Societies and Professional Networks. I hope the centre of EuChemS will continue to be more and more important to you all because of the work it does, that it will continue to support and appreciate all the wonderful things you do and that the profile of EuChemS will continue to grow at the European and International level. I am touched by how the tone of our interactions, especially with Professional Networks has changed from one of suspicion and tension to a much more collegiate approach where it is realised that we

can help one another and develop further activities in the areas of conferences, summer schools, lobbying, responding to consultations etc. Your input is invaluable, and it greatly enhances the profile of EuChemS.

Already, we are beginning to see the European Commission and Parliament as well as international organisations such as IUPAC and the Organisation for the Prohibition of Chemical Weapons (OPCW) and chemical societies outside Europe taking EuChemS much more seriously. Some areas where we have offered advice and where we see European positions paralleling our own include climate change, scientific advice to the commission, the protection of ERC funds and we hope the future of research after Brexit. At the Commission's request, EuCheMS has provided members for four International Missions on the Circular Economy and Executive Board member, Wolfram Koch, was successfully nominated to sit on the High-Level Group on Open Science. We are involved in the MEP-Scientist Pairing Scheme through MEPs Catherine Stihler and Pavel Poc (paired with Pavel Drašar, Executive Board member and President of the European Chemistry Thematic Network), and have run Parliamentary Workshops on Energy Storage, Carbon Dioxide as a Feedstock, Employability (with ECTN), Critical Elements, Antibiotic Resistance (with EFMC), and on Glyphosate. We have also organised one-day public meetings on Water, Food and Energy, Zero Carbon Energy, Open Access and the Circular Economy for Pharmaceuticals. Sergio Facchetti of the CNC, who retired from the Executive Board this year after 47 years of outstanding service, provided a very successful series of lectures on "The Chemist Towards Europe and the World" at EXPO in Milan.

We have taken a major stand over the use of chemical weapons with declarations being signed by most Presidents of Member Societies condemning the use of chlorine in warfare and the use of Sarin in Syria. On behalf of EuCheMS, I have published several articles on this topic following my

attendance with Dr. Thomas Geelhaar (GDCh President) and Professor David Phillips (RSC Past President) at the OPCW's very moving commemoration in Ypres of the 100th Anniversary of the First Large Scale use of Chemical weapons.

Ongoing projects, details of which appear in the **Introduction** below by incoming President, Pilar Goya, include the Atlantic Basin Conference on Chemistry, celebrations for the UNESCO "International Year of the Periodic Table of Chemical Elements" in 2019, developing an online course on "Ethics in Chemistry" and a new European Chemical Landmark Scheme.

Above all, though, we look forward to welcoming you to the 7th EuChemS Chemistry Congress in Liverpool, UK, 26 – 30 August 2018. It will be an exceptional Congress.

Finally, I would like to thank everyone again for the wonderful way I have been accepted and supported as President of EuCheMS, especial Nineta Hrastelj, Bruno Vilela and Marta Kucza, who do an amazing job keeping the show on the road as well as Robert Parker, Deirdre Black and the rest of the Royal Society of Chemistry who have been so generous in their provision of financial support to allow me to travel as well as in personal support of all kinds.

I wish Pilar Goya tremendous success in taking EuChemS to even higher levels of activity in support of Chemistry.

David Cole-Hamilton
EuCheMS President
(2014 – 2017)

Acknowledgement

The Editorial Team of the 2017 Year Book sincerely thanks all for their timely contributions and for reviewing the draft version. Special thanks goes to David Cole-Hamilton, for language corrections.

The Editorial Team



Introduction



As I start my term as President of EuCheMS, my first words have to be of gratitude to all those who have made it possible: the member organisations, in particular to the RSEQ for their continuous support, the Executive Board, the Secretariat and the previous Presidents, especially Luis Oro, Ulrich Schubert and David Cole Hamilton. I will try to follow and expand the successful path paved by them, and if I manage to do so, then I will be satisfied. The presidency of David Cole-Hamilton has been full of achievements, part of which are described in the preceding pages. His dedication and involvement have been outstanding, and he has really helped to place EuCheMS in the heart of European policy.

I begin my adventure accompanied by an excellent team, among whom I will mention David Cole-Hamilton as Past President, Eckart Rühl as Treasurer, Wolfram Koch and Robert Parker who have agreed to continue as members of the Executive Board, and the invaluable support of Nineta Hrstelj. I am very much looking forward to working with them as with the rest of the Executive Board, some new and others who have been my colleagues during the last few years.

Exciting events lie ahead, many of which involve increased participation and commitment of the Professional Networks and Task Groups. These include the Atlantic Basin Conference on Chemistry, to be held in Cancun in January 2018 jointly with Chemical Societies from Africa, Canada, Latin America (especially Brazil and Mexico) and the USA. We are heavily involved through the Division of Education in Chemistry (DivCEd) and the working Party on the History of Chemistry (WPHC) in planning celebrations for the UNESCO "International Year of the Periodic Table of Chemical Elements" in 2019, being led by IUPAC to mark 150 years since Mendeleev's Periodic Table; on a new European Chemical

Landmark Scheme through WPHC and in developing an online course on "Ethics in Chemistry" through the Working Party on Ethics in Chemistry and DivCEd. This course will be provided to different universities and is an important initiative that will place EuCheMS as the safeguard of ethical issues.

The 7th ECC Congress in August in Liverpool, organised jointly with the RSC, will be a wonderful celebration of chemistry and I look forward to welcoming you there. I am also looking forward to participating in the 13th EYCN Delegates Assembly taking place in Turin in May.

FECS, the predecessor of EuCheMS was established on 3 July 1970 in Prague by 17 Member Societies from both east and west Europe. On 14 October 2004 in its General Assembly in Bucharest, FECS decided to adopt the EuCheMS designation, with its headquarters in Belgium, and to prepare a new constitution, which was published in the Belgian Gazette on 28 April 2006. So, an umbrella organisation for Chemical Societies in Europe will have been running for 50 years in July 2020. Expect to see events being planned by EuChemS to celebrate this important milestone.

Last but not least, next year will be the start of our new name – EuChemS – meaning European Chemical Society. An excellent suggestion of Wolfram Koch which received unanimous support at the General Assembly in Rome. Let us hope that all the chemists in Europe will feel better represented and integrated under this more comprehensive name so that we can all work together for the better development of our association, and through this, contribute to increased research and innovation in chemistry for the benefits of society.

Pilar Goya
EuCheMS President (2017 – 2020)

EuCheMS Executive Board

The Executive Board is responsible for managing the scientific, educational and professional activities of EuCheMS.

The composition of the Executive Board includes the President, Vice-President, the Treasurer, members elected by the General Assembly and other members appointed by the Executive Board to provide special expertise.

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EuCheMS General Assembly

The General Assembly, the governing body of EuCheMS, meets annually and defines the general policy of EuCheMS. It is composed of a representative from each of the member societies and member organisations.



2017 EuCheMS General Assembly, Rome, Italy

2017 General Assembly, being the last General Assembly Chaired by David Cole-Hamilton as the EuCheMS President, was designed to present developments of EuCheMS during recent years and to facilitate discussion as an input to its future strategy and upcoming activities, during the mandate of Pilar Goya. It was well noted that significant developments have been achieved in recent years in EuCheMS relations with its Member Organisations, Professional Networks and with citizens.

Furthermore, this year's GA was marked by the signing of the position paper *Research and Education Without Borders After Brexit*, in which EuCheMS Members stated their support for the continued scientific collaboration between the EU and the UK.

Among its decisions, the GA accepted the future application of Consiglio Nazionale Delle Ricerche as a new Supporting

Member and approved the creation of a new Professional Network on "Formulation in Chemistry".

The GA also elected four Executive Board Members: Nicola Armaroli, Kenneth Ruud, Livia Simon Sarkadi, and Saskia Van Der Vies and expressed gratitude for many contributions to members of the Executive Board, whose mandate ended in 2017, namely to Franco De Angelis, Sergio Facchetti, Ivanka Popović, Michael Droescher and Boguslaw Buszewski.

The 2017 EuCheMS General Assembly annual meetings were kindly hosted by EuCheMS Member Society Società Chimica Italiana and took place in La Sapienza University, Rome, Italy, on 26 and 27 September.

Nineta Hrastelj
General Secretary

Policy Initiatives

EuCheMS Policy Initiatives

2017 was a year of consolidation for EuCheMS activities. With many ongoing high-level discussions on open science, circular economy, climate change, chemical weapons, Brexit, education and the labour market, and glyphosate, EuCheMS was able to make the voice of chemistry heard at the European level. This was done through the organisation of successful policy-science workshops, through the Open Science Policy Platform discussions, through new collaborations with policy-makers, through public statements, through responding to consultations, or through participation in European Commission delegations. This year was also marked by the development of *Chemistry in Europe*, the revamped EuCheMS newsletter targeting mainly chemists, which has a special section dedicated to policy issues. Overall, 2017 was a year in which new bonds were built between chemists, citizens, politicians, educators, and innovators.

EuCheMS at the Open Science Policy Platform of the European Commission

The Open Science Policy Platform (OSPP) is a high-level advisory group that supports the European Commission on how to further develop and practically implement open science policy. This high-level group, where EuCheMS is represented by Executive Board Member Wolfram Koch, continued its work in 2017 by analysing and adopting reports on the European Open Science Cloud and Open Access

Publishing, and by discussing other open science topics such as altmetrics or rewards. The OSPP has also adopted a working schedule setting the timeline for OSSP to address all eight open science ambitions of Commissioner Carlos Moedas: The future of scholarly publication; the European open science cloud; altmetrics; citizen science; research integrity; rewards; skills; and FAIR data. Reports, minutes and other materials from OSPP meetings can be found at <http://bit.ly/1RwTW9p>.

Public Consultations

Responding to European Commission chemistry-related public consultations is an element of EuCheMS policy strategy that provides concrete input from the chemical sciences to the European legislative process.

As part of the post-Horizon 2020 research funding programme preparation, EuCheMS has responded to the public consultation on the interim evaluation of Horizon 2020. In its answer, EuCheMS reaffirms the importance of this programme as a research funding mechanism, the need for further simplification in the application process, the importance of further European collaboration so as to avoid fragmentation and unnecessary duplication of research resources, and the need to increase the level of funding in order to speed-up scientific answers to our current global challenges. The answer provided by EuCheMS to the Commission was the result of an internal discussion in which all EuCheMS Members were invited to participate.



Feedback was also submitted on the European Commission's draft Regulation on Establishing Mitigation Measures and Benchmark Levels for the Reduction of the Presence of Acrylamide in Food. On this occasion, EuCheMS input was prepared in collaboration with the Division of Food Chemistry.

EuCheMS has also participated in consultation processes started not by the European Union but by other European organisations. An example of this is the revision of the European Code of Conduct for Research Integrity, led by ALLEA (ALL European Academies), where EuCheMS participated through the Working Party of Ethics in Chemistry. The revised code, which reflects last years' changes in scientific research and in society, was presented and delivered to Commissioner Moedas in May 2017.

Science-Policy Workshops

With the purpose of bringing together the scientific community and policy makers, to promote evidence-based policy making, and to showcase the solutions that chemists can offer to society, EuCheMS has organised four workshops during the course of 2017.

From Waste to Health

On the occasion of the Maltese Presidency of the Council of the European Union, EuCheMS organised "From Waste to Health", a workshop on the topic of circular economy and pharmaceuticals. This event, which took place in Valletta in April, explored the possibilities of a circular economy approach in the pharmaceutical sector, the role of chemistry in the EU circular economy legislative package, and examples of solutions that are already being implemented. The workshop was enhanced by the participation of, among others, Miriam Dalli, Member of the European Parliament, and José



From left to right: Emmanuel Sinagra (University of Malta), José Herrera (Maltese Minister for Sustainable Development, the Environment and Climate Change), and David Cole-Hamilton (EuCheMS President)

Herrera, Maltese Minister for Sustainable Development, the Environment and Climate Change.

Glyphosate: Harmless Tool or Sneaky Poison?

Glyphosate is the active substance in the most frequently used herbicide both worldwide and in the EU. Following the divergent glyphosate findings of the European Food Safety Authority on one side and of the International Agency for Research on Cancer (IARC) on the other, as well as the Monsanto Papers case, EuCheMS, ECTN, and Member of the European Parliament Pavel Poc organised a workshop on glyphosate at the European Parliament, Brussels, in May.



The event involved the presence of representatives from the European Chemicals Agency, IARC, and leading experts who participated in a scientific evidence based debate on glyphosate's possible effect on human health, specifically with reference to biological molecular processes, metabolism, genotoxicity, endocrine disruptors, antimicrobial resistance, and other serious health-related concerns. This event was made possible because of an on-going collaboration between MEP Pavel Poc and Executive Board Member Pavel Drašar which started with the 2016 MEP-Scientists Pairing Scheme.

Preparing for Employment in a Global Workforce

This symposium, organised by EuCheMS, the European Chemistry Thematic Network (ECTN) and the American Chemical Society (ACS), took place in August during the ACS 2017 National Meeting & Exposition in Washington, DC. As the employment market becomes increasingly global and competition intensifies, it is not sufficient for students

to learn and understand chemistry. In this discussion aimed at undergraduate and graduate students, postdoctoral researchers and their professors, speakers explored ways in which students can be better prepared for employment in the global market. Career opportunities and trends were discussed from the point of view of experts from government, industry and academia worldwide with a particular emphasis on trends in the United States and Europe. Members of ACS, ECTN and EuCheMS shared results of employment surveys to help better understand the training needs of chemists worldwide.



From left to right: Laura McConnell (Bayer Crop Science), Reiner Salzer (Technical University of Dresden ECTN & EuCheMS), Catherine Stihler (Member European Parliament), Tiffany Hoerter (Agilent Technologies), Sergio Nanita (Dupont), Maria-Jesus Blanco (Sage Therapeutics).

Future-Oriented Chemistry – How We Can Deliver the Paris Agreement

In November 2017, and for the first time, EuCheMS was present at the United Nations Climate Conference (COP23), with a workshop on low-carbon economy at the European Union Pavilion. During this event experts from academia and industry academia discussed the role of chemistry in promoting the Sustainable Development Goals through a low-carbon economy. To this end, speakers explored research possibilities, processes and products that already exist, and how these can positively impact climate change and our societies. Speaking on behalf of EuCheMS, Professor Ulrich Schubert presented EuCheMS' paper on Solar-Driven Chemistry. This event was the result of a collaboration between EuCheMS, the European Commission, the German

Chemical Industry Association (VCI); the International Council of Chemical Associations (ICCA); and the International Sustainable Chemistry Collaboration Center (ISC3).



From left to right: Alexis Bazzanella (ISC3), Peter Botschek (ICCA/Cefic), Ulrich Schubert (EuCheMS), Nitz (VCI).

European Commission's Missions on the Circular Economy

Following other EuCheMS initiatives on the circular economy, the European Commission (EC) once again invited EuCheMS to be part of the EC Delegations on the circular economy to South Africa (May 2017), and Columbia (October 2017).

Both delegations were led by the Director General for the Environment of the European Commission, Mr. Daniel Calleja, and included many representatives from European



Daniel Calleja speaking in Cape Town, South Africa

companies, agencies, research centres and associations. In South Africa, EuCheMS was represented by Professor Santiago Luis, Chair of the Division of Chemistry and the Environment and in Colombia by Dr. Nicola Armaroli, Chair of the EuCheMS Working Party on Energy. The scope of these missions is to deepen relationships and align policies on the circular economy between the EU and other countries.



Daniel Calleja speaking in Medellin, Colombia.

Declarations

EuCheMS also made the voice of chemistry heard through public statements and positions on particular issues in which chemists must take a stance.

Research and Education Without Borders After Brexit

The EuCheMS General Assembly endorsed the position paper "Research and Education Without Borders After Brexit" thus making clear the unity of chemists regarding the need to continue UK-EU collaboration after Brexit. The text of the position paper is the following:

"Culture, education and science know no borders. The EU has grown to be a world-leading provider of research and innovation, especially through the Framework programmes. They have provided leadership through fostering collaboration (including developing the European Research Area), supporting excellence, tackling societal challenges, supporting industrial development throughout Europe, improving shared international research infrastructure and building capacity across the region. The framework programmes

represent a unique kind of international research programme with respect to their scale and breadth – there is nothing else quite like them in the world. Many of their actions require expertise from a variety of different Member States and third parties and some of them cannot be carried out by individual states. The main beneficiaries are societal and industrial throughout the EU and beyond. There is no doubt that the whole is very much greater than the sum of the individual parts.

It is widely recognised that the highly competitive funding streams and the ability to select collaborators from a wide range of different backgrounds across the EU has driven the quality of research and innovation throughout the EU and has enhanced the competitiveness of EU industry. As one of the most advanced research and industrial nations within the EU, the UK has, both through its input into planning bodies and its participation in programmes, contributed strongly to these improvements at all technology readiness levels from very fundamental research to industrial exploitation. Research and industrial competitiveness across the EU greatly benefit from the input of UK researchers and vice versa. Withdrawal of the UK from the many funding schemes would remove some of the key quality drivers and fundamentally damage research and innovation in Europe as well as in the United Kingdom.

Some of the key positive features of the current arrangements are:

- The ability of UK academic and industrial researchers to participate in all aspects of Horizon 2020 and its successor Framework programmes, including taking leading roles;
- The ability of UK researchers to participate in all forward planning for the remainder of Horizon 2020 and new Framework programmes;
- The ability of EU nationals to live/work/study freely in the UK and the ability of UK nationals to live/work/study freely in the EU.

- Access to major facilities based in the EU and in the UK to all researchers from the EU and the UK;
- A compatible regulatory system for research and innovation within the EU and the UK.

As negotiations proceed to determine the relationship between the EU and the UK following the latter's withdrawal, EU scientists urge the negotiators to retain as strong as possible a relationship between EU and UK researchers. Continued collaboration without borders will improve research across all European countries for the benefit of mankind.

*EuCheMS General Assembly, Rome, 26 September 2017
(Previously approved by EuCheMS Executive Board, Liverpool, June 2017)*

Syrian Conflict – EuCheMS Condemns

Use of Chemical Weapons

Following the 2016 Seville declaration on the use of Chlorine in Warfare, EuCheMS condemned in the strongest possible terms the use of chemical weapons in the Syrian conflict, calling on the perpetrators to be tried for War Crimes at the earliest possible moment. In this statement, the association mentioned that the use of chemical weapons is a crime against Humanity of the severest kind and that no one who orders attacks using chemical weapons should be allowed to remain free. Therefore, EuCheMS called on all parties in the Syrian conflict to immediately inform the Organisation for the Prohibition of Chemical Weapons (OPCW) of all known stockpiles of chemical weapons and to allow them to be removed and destroyed at the earliest possible opportunity.



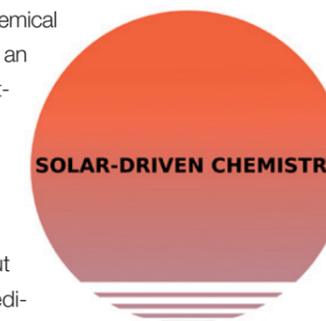
Employment Survey for European Chemists (ESEC2)

For the second time, European chemists working in Europe or abroad and chemists from everywhere based in Europe were invited to participate in the Employment Survey for European Chemists (ESEC2). Running during the month of March, this survey collected thousands of entries which will allow an in-depth analysis of the educational offer and labour market needs in the EU, the gender balance, salary differences, and other points of interest to European employees, employers and universities in the field of chemistry. The data of ESEC2 is currently being analysed and a report will be published in due time. ESEC2 is being run by ECTN and EuCheMS, under coordination of Professor Reiner Salzer. Part of the survey was designed together with the American Chemical Society (ACS), as to enable comparative data analysis for Europe and for the USA.



Solar-driven Chemistry

Realising solar-driven chemical technologies requires an integrated and synergetic approach and strong support for basic and applied research. It will take several decades to reach all the goals, but short-term and intermediate results will already generate huge benefits. To this end, EuCheMS continued the promotion of the white paper on Solar-Driven Chemistry, presented in September 2016, throughout 2017. Among other initiatives, EuCheMS and the German research funding agency (DFG) promoted a meeting in Brussels, in October, of national funding agencies with the objective of creating European research collaborations on this topic.



EuCheMS Awards

EUCYS EuCheMS Award 2017

Songrui Zhao from the People's Republic of China was the winner of the 2017 EUCYS EuCheMS Award with her project entitled "A Research on Synthesis, Characterization and CO₂ Absorptive Character of Pyridinium-based Ionic Liquids".

Songrui Zhao synthesised three kinds of pyridium-based ionic liquids as new solvents for CO₂ capture. Their physical properties and CO₂ absorbing abilities were measured, calculated and analysed. The cycling abilities and absorbing principle of these liquids were also discussed. The results show that the three kinds of ionic liquids can absorb CO₂ efficiently and can be recycled completely. The new liquids can be widely used in industrial CO₂ capture process.



Karen Slavin (European Commission), Songrui Zhao, and Attila Borics (President of the Jury), in Tallinn.

EuCheMS Lecture Award

Professor Ursula Röthlisberger received the EuCheMS Lecture Award 2015 from Professor David Cole-Hamilton, EuCheMS President, at the 11th European Conference on Theoretical and Computational Chemistry, Barcelona, Spain, on 7 September 2017.



In her lecture, Professor Röthlisberger described how linking Density Functional Theory (DFT) calculations with molecular mechanics, genetic algorithms or artificial intelligence allows computers to search huge areas of computational space and find new biomimetic systems as well as enzyme mechanisms and dyes for solar cells.

Historical Landmarks – new EuCheMS Award

Chemistry is an integral part of the Cultural Heritage of Europe. However, while there are many touristic signs marking the very place where important intellectual developments or events happened, only a few chemical sites are identified and publicised. Most of the existing programmes are run by national chemical societies, and therefore often overlook the European, and even the international dimension, of the chemical sciences.

For these reasons, EuCheMS decided to set up a Historical Landmarks Programme. It will reinforce the sense of belonging of European chemists and remind them that as far as the history of chemistry goes, people and ideas alike have circulated, been shared and shaped through meetings and communication. It would also bring to the general public some sense of how chemistry is part of the general cultural heritage and history of every European citizen, especially as the plaques are accompanied with communication materials providing information on the discoveries and breakthroughs celebrated, and the impact they had.

The call for nominations for the EuCheMS Historical Landmarks opened in September 2017.

European Chemistry Gold Medal – the International Award Committee

The International Award Committee (IACM) for the European Chemistry Gold Medal was announced in July 2017. IACM's members are: Markku Leskelä (University of Helsinki); Lesley J. Yellowlees (University of Edinburgh); Herman Overkleeft (Leiden University - Chair of the IACM); Veronica Vaida (University of Colorado Boulder); and Renato Zenobi (Eidgenössische Technische Hochschule Zürich). The Call for nominations opened in September 2017.



Markku Leskelä

Lesley J. Yellowlees



Herman Overkleeft

Veronica Vaida

Renato Zenobi

European Prize for Organometallic Chemistry



This award is given every two years "for a single piece of outstanding work or for a body of outstanding work primarily done in Europe, including Norway, Switzerland, Turkey and Israel".

The winner of the prize for the year 2017 was Professor David Milstein from the Weizmann Institute of Science, Israel. The Prize Ceremony and an Award Lecture by the winner took place at the 22nd EuCOMC in Amsterdam (13 July 2017).

Division of Chemistry and the Environment Award



During the 16th International Conference on Chemistry and the Environment (ICCE 2017) held on 18 – 22 June 2017 in Oslo, Norway, the Division of Chemistry and the Environment had the honour of giving its 2017 Divisional award to Søren Jensen, one of the most remarkable pioneers in the field of persistent organic pollutants (POPs).

EuCheMS Lecture Award – the International Award Committee

Until 2016, the EuCheMS Lecture Award was awarded annually to a prominent chemist from a European country. From 2017 on, the Award will be given for major achievements of one junior scientist working in chemistry in a country with a EuCheMS Member Organisation. The Call for nominations opened in September 2017. The members of the International Award Committee for the EuCheMS Lecture Award (IACL) are: Barbara Ruth Albert (Technische Universität Darmstadt); Sabine Flitsch (University of Manchester); Gaetano Guerra (University of Salerno); Stefan Vogel (University of Southern Denmark); Manuel Yáñez (University of Madrid).



Barbara Ruth Albert

Sabine Flitsch

Gaetano Guerra



Stefan Vogel

Manuel Yáñez

2017 EuCheMS Recognised Events

- **The Future for Collaborative Research and Innovation in Europe**
24/01/2017
Auderghem, Belgium
- **e-WISPOC 2017 – 11th European Winter School on Physical Organic Chemistry**
29/01/2017 – 03/02/2017
Bressanone, Italy
- **EuCheMS Executive Board Meeting – Frankfurt**
28/02/2017 – 01/03/2017
Frankfurt, Germany
- **From Waste to Health**
05/04/2017
Valetta, Malta
- **25HSKIKI – 25th Croatian Meeting of Chemists and Chemical Engineers with international participation**
19/04/2017 – 22/04/2017
Poreč, Croatia
- **Glyphosate: Harmless Tool or Sneaky Poison?**
10/05/2017
Brussels, Belgium
- **TFA VIII – Trends in Food analysis VIII**
24/05/2017
Gent, Belgium
- **Dutch Peptide Symposium 2017**
08/06/2017
Eindhoven, Netherlands
- **EuCheMS Executive Board Meeting**
08/06/2017 – 09/06/2017
Liverpool, United Kingdom
- **Science Me! 2017**
11/06/2017 – 13/06/2017
Hannover, Germany
- **Inorganic Chemistry Days**
12/06/2017 – 14/06/2017
Nynäshamn, Sweden
- **ICCE 2017 – 16th EuCheMS International Conference on Chemistry and the Environment**
18/06/2017 – 22/06/2017
Oslo, Norway
- **ISOS 2017 – International Summer School on Organic Synthesis “A. Corbella”**
18/06/2017 – 22/06/2017
Gargnano Garda Lake, Italy
- **SPE2017 – XXII Meeting of the Portuguese Society of Electrochemistry**
19/06/2017 – 22/06/2017
Ponta Delgada, Portugal
- **Bienal 2017 – XXXVI Biennial Meeting of the Spanish Royal Society of Chemistry (RSEQ)**
25/06/2017 – 29/06/2017
Barcelona, Spain
- **7th EuroVariety – 7th European Variety in University Chemistry Education**
28/06/2017
Belgrade, Serbia
- **4th EuCheMS Inorganic Chemistry Conference – EICC-4**
02/07/2017 – 05/07/2017
Copenhagen, Denmark
- **ISSNP 2017 – International Summer School on Natural Products**
03/07/2017 – 07/07/2017
Naples, Italy
- **MMM2017 – X International School on Organometallic Chemistry “Marcial Moreno Mañas”**
05/07/2017 – 07/07/2017
Ciudad Real, Spain
- **EuCOMC 2017 – 22nd European Conference on Organometallic Chemistry**
09/07/2017 – 13/07/2017
Amsterdam, Netherlands
- **16th ECSSC – 16th European Conference on Solid State Chemistry**
23/07/2017 – 27/07/2017
Glasgow, United Kingdom
- **22 International Mass Spectrometry Conference (22 IMSC2018)**
26/08/2017 – 31/08/2017
Florence, Italy

- **EuroAnalysis 2017**
28/08/2017 – 01/09/2017
Stockholm, Sweden
- **11ICHC – 11th International Conference on the History of Chemistry**
29/08/2017 – 02/09/2017
Trondheim, Norway
- **ISOC 2017 – International School of Organometallic Chemistry: Organometallic chemistry: from theory to applications**
02/09/2017 – 06/09/2017
San Benedetto del Tronto, Italy
- **3rd EuGSC – 3rd EuCheMS Congress on Green and Sustainable Chemistry**
03/09/2017 – 06/09/2017
York, United Kingdom
- **11 European Conference on Theoretical and Computational Chemistry – 11EUCCO-TCC**
04/09/2017 – 07/09/2017
Barcelona, Spain
- **SCI 2017 – XXVI Congresso Nazionale della Società Chimica Italiana**
10/09/2017 – 14/09/2017
Paestum, Italy
- **WiFo 2017 – GDCh-Wissenschaftsforum Chemie 2017**
10/09/2017 – 13/09/2017
Berlin, Germany
- **ECPC17 – 2nd European Conference on Physical Chemistry**
24/09/2017 – 27/09/2017
Borgo, France
- **EuCheMS Executive Board Meeting**
25/09/2017 – 26/09/2017
Rome, Italy
- **EuCheMS General Assembly (Closed Sessions)**
26/09/2017
Rome, Italy
- **EuCheMS General Assembly (Open Sessions)**
27/09/2017
Rome, Italy

- **EuCheMS Chair of Professional Networks Meeting**
27/09/2017
Rome, Italy
- **EuroFoodChem XIX**
04/10/2017 – 06/10/2017
Budapest, Hungary
- **5th MS Food Day**
11/10/2017 – 13/10/2017
Bologna, Italy
- **EWCC 2017 – East-West Chemistry Conference 2017**
12/10/2017 – 14/10/2017
Skopje, Macedonia
- **13th International Conference on Polysaccharides and Glycoscience (13th ICPG)**
08/11/2017 – 10/11/2017
Praha, Czech Republic
- **XX International Symposium „Advances in the Chemistry of Heteroorganic Compounds”**
23/11/2017 – 24/11/2017
Łódź, Poland

2018 EuCheMS Recognised Events

- **ABCchem – Atlantic Basin Conference on Chemistry**
23/01/2018 – 26/01/2018
Cancún, Mexico
- **European Winter School on Physical Organic Chemistry (WISPOC 2018)**
28/01/2018 – 02/02/2018
Bressanone, Italy
- **16th Iberian Peptide Meeting (16EPI) / 4th Chemical Biology Group Meeting (4GEQB)**
05/02/2018 – 07/02/2018
Barcelona, Spain
- **ChemCYS 2018 – 14th Chemistry Conference for Young Scientists**
21/02/2018 – 23/02/2018
Blankenberge, Belgium

2018 EuCheMS Recognised Events

- **EuCheMS Executive Board Meeting**
27/02/2018 – 28/02/2018
Berlin, Germany
- **Belgian Peptide Group Meeting (BPGM)**
28/02/2018 – 01/03/2018
Brussels, Belgium
- **International School of Process Chemistry (ISPROCHEM)**
08/04/2018 – 11/04/2018
Gargnano, Italy
- **Analytica conference 2018**
10/04/2018 – 12/04/2018
München, Germany
- **XXIII Meeting of the Portuguese Society of Electrochemistry (SPE2018)**
02/05/2018 – 04/05/2018
Porto, Portugal
- **Bunsentagung 2018 – 117th General Assembly of the German Bunsen Society for Physical Chemistry**
10/05/2018 – 12/05/2018
Hannover, Germany
- **SETAC 2018: Session on substitution of hazardous chemicals**
13/05/2018 – 17/05/2018
Rome, Italy
- **IIS Prague 2018 – 13th International Symposium on the Synthesis and Applications of Isotopes and Isotopically Labeled Compounds**
04/06/2018 – 07/06/2018
Prague, Czech Republic
- **XI International School on Organometallic Chemistry “Marcial Moreno Mañas”**
06/06/2018 – 08/06/2018
Oviedo, Spain
- **“Attilio Corbella” International Summer School on Organic Synthesis (ISOS 2018)**
10/06/2018 – 14/06/2018
Gargnano (BS), Italy
- **The International Symposium on Inorganic and Environmental Materials 2018 (ISIEM2018)**
17/06/2018 – 21/06/2018
Ghent, Belgium
- **SCF18 – 2018 Congress of the Société Chimique de France**
30/06/2018 – 04/07/2018
Montpellier, France
- **EuCheMS Executive Board Meeting**
24/08/2018 – 25/08/2018
Liverpool, United Kingdom
- **ECC7 – 7th EuCheMS Chemistry Congress**
26/08/2018 – 30/08/2018
Liverpool, United Kingdom
- **22 International Mass Spectrometry Conference (22 IMSC2018)**
26/08/2018 – 31/08/2017
Florence, Italy
- **25th International Conference on High Resolution Molecular Spectroscopy – Bilbao 2018**
03/09/2018 – 07/09/2018
Bilbao, Spain
- **N-Ligands2018 – 7th EuCheMS Conference on Nitrogen-Ligands**
04/09/2018 – 07/09/2018
Lisbon, Portugal
- **Advanced Inorganic Materials Green and Unconventional Synthesis Approaches and Functional Assessment (AIM 2018)**
05/09/2018 – 07/09/2018
Padova, Italy
- **24th Conference on Isoprenoids**
09/09/2018 – 12/09/2018
Bialystok, Poland
- **22-ICOS – 22 International Conference on Organic Synthesis**
16/09/2018 – 21/09/2018
Firenze, Italy
- **17th Ružička days “Today Science – Tomorrow Industry”**
19/09/2018 – 21/09/2018
Vukovar, Croatia
- **25th Congress of the Society of Chemists and Technologists of Macedonia**
19/09/2018 – 22/09/2018
Ohrid, Macedonia
- **East-West Chemistry Conference 2018 (EWCC2018)**
10/10/2018 – 12/10/2018
Lviv, Ukraine

EuCheMS Member Societies

Austrian Chemical Society

Gesellschaft Österreichischer Chemiker (GÖCH)

President: Dr. Ernst Gruber

Website: www.goech.at



Austrian Society of Analytical Chemistry

Österreichische Gesellschaft für Analytische Chemie (ASAC)

President: Prof. Wolfgang Buchberger

Website: www.asac.at/default.aspx



Walloon Royal Society of Chemistry

Société Royale de Chimie

President: Prof. Thierry Randoux

Website: www.src.be



Royal Flemish Chemical Society

Koninklijke Vlaamse Chemische Vereniging (KVCV)

President: Dr. Christophe De Bie

Website: www.kvcv.be



Croatian Chemical Society

Hrvatsko Kemijsko Društvo

President: Prof. Srđanka Tomić-Pisarović

Website: www.hkd.hr/index-en.html



Panyprian Union of Chemists

Παγκύπρια Ένωση Επιστημόνων Χημικών

President: Dr Christina Valanidou

Dr. Leontios Philotheou

Website: www.chemistry.org.cy



Czech Chemical Society

Česká Společnost Chemická

President: Prof. Jan John

Website: www.csch.cz



Danish Chemical Society

Kemisk Forening

President: Prof. Stefan Vogel

Website: www.chemsoc.dk



Estonian Chemical Society

Eesti Keemia Selts

President: Prof. Margus Lopp

Website: <http://ecs.kbfi.ee/Engl.html>



Finnish Chemical Society

Suomalaisten Kemistien Seura

President: Prof. Jari Yli-Kauhaluoma

Website: <http://kemianseurat.fi/kemia>



French Chemical Society

Société Chimique de France

President: Prof. Gilberte Chambaud

Website: www.societechimiquedefrance.fr



German Chemical Society

Gesellschaft Deutscher Chemiker (GDCh)

President: Prof. Dr. Thisbe K. Lindhorst

Website: www.gdch.de



German Bunsen Society for Physical Chemistry

Deutsche Bunsen-Gesellschaft für Physikalische Chemie e.V.

President: Dr. Uwe Nickel

Website: www.bunsen.de



Association of Greek Chemists

Ένωση Ελλήνων Χημικών

President: Mrs. Triantafyllia Sideri

Website: www.eex.gr



Hungarian Chemical Society

Magyar Kémikusok Egyesülete

President: Prof. Dr. Livia Simon Sarkadi

Website: www.mke.org.hu



Institute of Chemistry of Ireland
Instituid Ceimice Na Héireann

President: Dr. Margaret Franklin
Prof. John Cassidy
Website: www.chemistryireland.org



Israel Chemical Society
הימכל תילארשיה הרבחה

President: Prof. Ehud Keinan
Website: www.chemistry.org.il



Italian National Council of Chemists
Consiglio Nazionale dei Chimici

President: Prof. Nausicaa Orlandi
Website: www.chimici.it



Italian Chemical Society
Società Chimica Italiana

President: Prof. Angela Agostiano
Website: www.soc.chim.it



Association of Chemists of Luxembourg
Association des Chimistes Luxembourgeois

President: Mr. Albert Lambert
Website: www.achil.lu



Society of Chemists and Technologists of Macedonia

Сојуз на хемичарите и технолозите на Македонија

President: Prof. Zoran Zdravkovski
Website: www.pmf.ukim.edu.mk/PMF/Chemistry/sojuz.htm



Chemical Society of Montenegro
Hemijsko Društvo Crne Gore

President: Prof. Zeljko Jačimović



Royal Netherlands Chemical Society
Koninklijke Nederlandse Chemische Vereniging (KNCV)

President: Prof. Floris Rutjes
Website: www.kncv.nl



Norwegian Chemical Society
Norsk Kjemisk Selskap (NKS)

President: Prof. Øyvind Mikkelsen
Website: www.kjemi.no



Polish Chemical Society
Polskie Towarzystwo Chemiczne

President: Prof. Jerzy Błażejowski
Website: www.en.ptchem.pl



Portuguese Chemical Society
Sociedade Portuguesa de Química

President: Prof. Artur Silva
Website: www.spq.pt



Portuguese Electrochemical Society
Sociedade Portuguesa da Electroquímica

President: Prof. Luísa Margarida Martins
Website: <http://cq.e.ist.utl.pt/speq>



Romanian Chemical Society
Societatea de Chimie din Romania

President: Prof. Sorin Roşca
Website: www.schr.org.ro



Mendeleev Russian Chemical Society
Российское химическое общество им. Д.И. Менделеева

President: Prof. Aslan Tsivadze
Website: www.chemsoc.ru



Russian Scientific Council on Analytical Chemistry
Аналитическая химия в России

President: Prof. Yuri Zolotov



Serbian Chemical Society
Српско хемијско друштво (СХД)

President: Prof. Vesna Misković-Stanković
Website: www.shd.org.rs/HtDocs/SHD/SHD-index.htm



Slovak Chemical Society
Slovenská chemická spoločnosť

President: Prof. Peter Šimon
Website: www.schs.chtf.stuba.sk



Slovenian Chemical Society
Slovensko kemijsko društvo

President: Prof. Venčeslav Kaučič
Dr. Albin Pintar
Website: www.chem-soc.si



Spanish Royal Society of Chemistry
Real Sociedad Española de Química

President: Prof. Jesús Jiménez-Barbero
Website: www.rseq.org



Spanish Society for Analytical Chemistry
Sociedad Española de Química Analítica (SEQA)

President: Prof. Elena Dominguez
Prof. José Luis Pérez Pavón
Website: www.seqa.es



Spanish National Association of Chemists and Chemical Engineers

Asociación Nacional de Químicos e Ingenieros Químicos de España (ANQUE)

President: Prof. Ernesto Castañeda
Website: www.anque.es



Catalan Chemical Society
Societat Catalana de Química

President: Prof. Carles Bo
Website: <http://blogs.iec.cat>



Swedish Chemical Society
Svenska Kemisamfundet

President: Prof. Helena Grennberg
Website: www.chemsoc.se



Swiss Chemical Society
Société Suisse de Chimie – Schweizerische Chemische Gesellschaft

President: Dr. Alain De Mesmaeker
Website: www.swiss-chem-soc.ch



Turkish Chemical Society
Türkiye Kimya Derneği

President: Prof. Dr. Bahattin Yalçın
Website: www.turchemsoc.org



Royal Society of Chemistry

President: Prof. Sir John Holman
Website: www.rsc.org



EuCheMS Supporting Members

European Nanoporous Materials Institute of Excellence (ENMIX)



European Chemistry Thematic Network Association (ECTN)



European Federation of Medicinal Chemistry (EFMC)



Fraunhofer Institute for Interfacial Engineering and Biotechnology (IGB)



European Federation of Managerial Staff in the Chemical and Allied Industries (FECCIA)



European Research Institute of Catalysis (ERIC)



EuCheMS Professional Networks

EuCheMS Professional Networks are platforms in their own fields of expertise and promote collaboration with other European and international organisations. Among others, the Professional Networks organise high quality scientific conferences in chemical and molecular sciences and interdisciplinary areas.



Chair: Professor Slavica Ražić
Email: slavica.razic@pharmacy.bg.ac.rs

• Division of Analytical Chemistry

The EuCheMS Division of Analytical Chemistry is a network of chemical societies and their members working in all fields of analytical sciences. It gives a voice to the interdisciplinary field of analytical sciences. It is based in Europe and aims at close links to related institutions all over the world.



Chair: Dr. Iwona Maciejowska
Email: iwona.maciejowska@uj.edu.pl

• Division of Chemical Education

The EuCheMS Division of Chemical Education has two goals: to look for new activities to promote chemical education research and practice in Europe and to improve the dissemination of information between countries. To achieve those goals the Division is running biannually alternately two conferences: ECRICE - European Conference on Research in Chemical Education (even years) and EuroVariety - European Variety in University Chemistry Education (odd years).



Chair: Prof. Santiago Luis
Email: luiss@uji.es

• Division of Chemistry and the Environment

The overall aim of the EuCheMS Division of Chemistry and the Environment is to promote and support co-operation in the area of chemistry and the environment issues amongst the European chemical societies and their members.



Chair: Prof. Sonsoles Martín Santamaria
Email: smsantamaria@cib.csic.es

• Division of Chemistry in Life Sciences

The general aim of the EuCheMS Division of Chemistry in Life Sciences is to promote active collaborations, maintain effective communication, and disseminate knowledge among chemists in Europe working in the broad area of chemistry for life sciences. Achievement of these goals is pursued through networking activities, organisation of conferences and schools.



Chair: Prof. Péter Szalay
Email: szalay@chem.elte.hu

● Division of Computational and Theoretical Chemistry

The Division of Computational and Theoretical Chemistry networks the EuCheMS members exploiting the pervasive nature of computer science and technologies to enhance research and education in chemistry, molecular and materials sciences. Computational Chemistry research provides new understanding and development of procedures for simulating, designing and operating systems ranging from atoms and molecules to interactions of molecules in complex systems such as cells and living organisms. In this respect the division promotes the development of virtual research and education communities fostering collaborative activities between theoreticians and experimentalists, academics and professionals, teachers and students seeking innovation in all the production sectors where chemistry plays a part.



Chair: Prof. Marco Arlorio
Email: marco.arlorio@uniupo.it

● Division of Food Chemistry

The EuCheMS Division of Food Chemistry aims are to represent food sectors of national Chemical Societies at European level; to be recognised as an European authority in all matters concerning food chemistry and to promote and harmonise teaching of food chemistry within food science across Europe. More particularly, the Food Chemistry Division wants to represent an international open forum focused on the organisation of different kinds of events: conferences, technical round-tables, advanced schools and training activities. The Division aims to support their stakeholders and the national Chemical Societies in the food chemistry area, particularly opening new opportunities for young researchers in Europe. The Division aims to interact with European policy makers in food area, and to bridge its knowledge to other EuCheMS Divisions as well as to share common interests with more non-profit technical and scientific Boards/Societies, as worldwide actor in food quality and safety area. Moreover, the Division aims to contribute to improve the knowledge about traditional and novel foods. Advanced research in food composition, food authenticity, impact of technologies/processing, chemical/biochemical modifications in foods, additives and contaminants are the main fields of interest of the Division.



Chair: Prof. Nicholas Gathergood
Email: nicholas.gathergood@ttu.ee

● Division of Green and Sustainable Chemistry

The Division of Green and Sustainable Chemistry is a network of members of EuCheMS societies working in all fields of chemistry related to “The invention, design and application of chemical products and processes to reduce or to eliminate the use and generation of hazardous substances”.

The Division aims at becoming the key forum for discussion and promotion of any initiatives at the scientific, technical and political level to advocate the leading role of chemistry in contemporary green research. It further looks for synergies with other EuCheMS Divisions and WPs on topics of common interest. The main objective is to organise conferences and workshops on energy related topics in cooperation with other scientific, industrial and political stakeholders at the European as well as national levels.

Moreover, the Division aims to support activities, to organise platforms, attract funding, enhance networking and promote education related to Green and Sustainable Chemistry in Europe.



Chair: Prof. Anna Trzeciak
Email: anna.trzeciak@chem.uni.wroc.pl

● Division of Inorganic Chemistry

The EuCheMS Division of Inorganic Chemistry provides a forum for the interdisciplinary field of inorganic chemistry and its applications. The Division aims at close links all over the world. It also aims to motivate national chemical societies to promote inorganic chemistry in their countries and to become the focal point of inorganic chemists in Europe. The Division promotes the dissemination of inorganic chemistry through its biennial conference, or dedicated initiatives within the EuCheMS Chemistry Congress, and supports high level education through specialist schools and the production of dedicated books and other publications.



Chair: Prof. Jon Petter Omtvedt
Email: j.p.omtvedt@kjemi.uio.no

● Division of Nuclear and Radiochemistry

The Division of Nuclear and Radiochemistry is a network of scientists working in nuclear and radiochemistry throughout Europe. Cooperation with relevant supranational bodies such as IUPAC and IAEA as well as with journals and newsletters provides a broad network reaching also outside Europe. The main objective of the DNRC is to contribute to the advancement of nuclear and radiochemistry in Europe. Furthermore, DNRC strives to harmonise education and training in all aspects of nuclear and radiochemistry.



Chair: Prof. Veronique Gouverneur
Email: veronique.gouverneur@chem.ox.ac.ukl

◆ Division of Organic Chemistry

The EuCheMS Division of Organic Chemistry is currently composed of representatives from 27 Member Societies and has gained international recognition within the chemistry community. Since its creation, the Organic Division has been pro-active at various levels and was involved in the organisation of numerous satellite symposia at the European Chemical Congresses. The Division also endorses on a regular basis a series of well-established and high-profile Conferences and Schools.

However, the EuCheMS Organic Division hallmark activity is the creation of the Young Investigator's Workshop (YIW) to further promote and recognise academic excellence in organic chemistry within (and outside) Europe. This annual event is deliberately held close to either the European Chemical Congress (EEC) or the European Symposium on Organic Chemistry (ESOC), as we encourage the attendees of the YIW to attend these events.



Chair: Prof. Jan Čermák
Email: cermak@icpf.cas.cz

◆ Division of Organometallic Chemistry

The Division of Organometallic Chemistry will continue being an active, trusted, and sustainable voice of EuCheMS on any matters relating to the large and interdisciplinary field of fundamental and applied organometallic chemistry, providing and coordinating activities such as congresses, schools and workshops of interest for students, researchers and others interested in or actively employing organometallic chemistry.



Chair: Prof. Eckart Rühl
Email: ruehl@zedat.fu-berlin.de

◆ Division of Physical Chemistry

The EuCheMS Division of Physical Chemistry aims to strengthen the interaction of physical chemists throughout Europe. The EuCheMS Division of Physical Chemistry integrates and coordinates its scientific activities with respective national and international activities of its members. The EuCheMS Division of Physical Chemistry strongly supports focused scientific meetings which are organised by active members in Physical Chemistry. Furthermore, the EuCheMS Division of Physical Chemistry aims to increase the networking and communication among its active members, which is expected to lead to a higher level of coordination and communication resulting in integration of topical national events into the EuCheMS Physical Chemistry Community.



Chair: Prof. Martin Jansen
 (before 01/10/17)
 Prof. Paul Attfield
 (after 01/10/17)
Email: m.jansen@fkf.mpg.de
 j.p.attfield@ed.ac.uk

◆ Division of Solid State and Materials Chemistry

The Division of Solid State and Materials Chemistry is covering a highly multidisciplinary area of research, which embraces major sub-disciplines of chemistry such as inorganic, organic, physical, theoretical and analytical chemistry, and bridges to physics and engineering. Research in solid state and materials chemistry is not exclusively motivated by the quest for knowledge but is ultimately application-oriented, and thus has strong ties with industrial chemistry. As one basic objective, the Division aims to bring together the various sub-disciplines of the field, coordinating all activities with those of the already existing national associations. In particular, the Division is running biannually pertinent conferences and is striving to organise symposia during the EuCheMS Chemistry Congresses in the intermittent years. Finally, the Division aims to enhance networking and promote education related to solid state and materials chemistry in Europe.



Chair: Dr. Nicola Armaroli
Email: nicola.armaroli@isof.cnr.it

◆ Working Party on Chemistry and Energy

The Working Party on Chemistry and Energy is a network of members of EuCheMS societies working in all fields of chemistry related to energy science and technology in their broadest sense.

The Working Party aims at becoming the key forum for discussion and promotion of any initiatives at the scientific, technical and political level to advocate the leading role of chemistry in contemporary energy research. It further looks for synergies with other EuCheMS divisions and WPs on topics of common interest. The main objective is to organise conferences and workshops on energy related topics in cooperation with other scientific, industrial and political stakeholders at the European as well as national level.

Moreover, the WP aims to support activities, to organise platforms, attract funding, enhance networking and promote education related to energy and chemistry in Europe.



Chair: Prof. Rocco Mazzeo
Email: rocco.mazzeo@unibo.it

◆ Working Party on Chemistry for Cultural Heritage

The Working Party is a network of representatives from EuCheMS member societies working in chemistry for cultural heritage. It aims to create links all over the world. The Working Party aims to closely collaborate with the professional conservation community eg. IIC, ICOM-CC, ENCoRe etc. It aims to motivate and assist the national chemical societies in promoting the interest and knowledge of the relation between chemistry and cultural heritage in their countries.



Chair: Prof. Hartmut Frank
Email: hartmut.frank@uni-bayreuth.de

● Working Party on Ethics in Chemistry

The Working Party is a network of representatives of EuCheMS member societies, experts from other relevant disciplines and professions, and of individuals worldwide interested and active in the advancement of academic and industrial chemistry for the common good under consideration of global sustainability. In this sense, the WP and its members aim to assist in the propagation of ethical guidelines within the chemical community and to help by dialectical reasoning in resolving controversies about the consequences, benefits and problems arising from the practice of chemistry. Towards this end, the WP intends to consult and cooperate with other public organisations such as the OPCW or EU and national science-administrative bodies. A particular goal is to promote between chemical professionals a better understanding of the importance of ethical considerations in all areas of chemical research and applied chemistry by education.



Chair: Dr. Brigitte Van Tiggelen
Email: vantiggelen@memosciences.be

● Working Party on History of Chemistry

The Working Party on the History of Chemistry is a network of members of EuCheMS societies working in all aspects of the history of chemistry in their broadest sense. Over the years, the international conference organised by the WP every other year has become a key event in the history of science community, gathering chemists and historians, from all over Europe and far beyond to investigate and discuss the latest research and reflections on a wide variety of aspects of the history of the molecular sciences. On top of this main objective, the WP has led several projects to promote chemistry through its history, and serves as a platform for international networking to this aim.



Chair: Prof. Alain Durand
Email: alain.durand@univ-lorraine.fr

● Working Party on Formulation in Chemistry

The Working Party on Formulation in Chemistry is a new network of members of EuCheMS societies working in all aspects of formulation in relation to chemistry. Formulated products are targeted to provide end use properties according to specifications and should be manufactured and conditioned for commercialisation. To that goal, chemical properties of several ingredients (generally immiscible) are combined through association, mixing, dispersion and organisation at various spatial scales using convenient processes. A fundamental message underpinning the concept of formulation is that basic chemical knowledge, colloidal chemistry and industrial operations are identical from one sector to another. The Working Party will kick-off in January 2018 with the aim of becoming a European forum for cross-sectorial discussions between people from academia and industry on all topics where chemistry is a key challenge for formulated products.



Chair: Alice Soldà
Email: chair@eycn.eu

● European Young Chemists' Network

The European Young Chemists' Network (EYCN) is the younger members' division of EuCheMS. Every chemist under 35 within the EuCheMS framework is part of EYCN.

The aim of EYCN is to promote the exchange of information among young chemists in European industry, academia, professional institutions and European government bodies. Moreover, it provides a communication gate for all areas of chemistry within Europe and also to the rest of the world.

EYCN forms an organised and united opinion within EuCheMS to represent the European voice in science and education and provide the platforms to generate and expand new ideas that contribute to the future role of chemistry and molecular sciences in European society.

It also bridges the gap between academia and industry by organising shared activities, promoting discussion and handover of experience at an informal level.

Annual reports of EuCheMS Professional Networks

Division of Analytical Chemistry

The Division of Analytical Chemistry (DAC) Steering Committee (StC) for 2017 was: Slavica Ražić (Serbian Chemical Society; Chair), Wolfgang Buchberger (Austrian Chemical Society; Secretary), Paul Worsfold (RSC; Past-Chair), Jiří Barek (Czech Chemical Society; Treasurer), Christian Rolando (Société Chimique de France), Charlotta Turner (Swedish Chemical Society) and Sibel Özkan (Turkish Chemical Society).

DAC has active Study Groups in the following areas: "Education", "Quality Assurance", "History", "Bioanalytics", "Chromometrics" and "Analytical Chemistry in Archaeology and Cultural Heritage". It also established a Task Force in Nanoanalytics. Further details of their activities can be found at <http://www.euchems.eu/divisions/analytical-chemistry>.

During the year, DAC produced an *End-of-Year Letter* and the *European Analytical Column*.

EUROANALYSIS XIX was held in Stockholm in 2017 (28 August – 1 September). EUROANALYSIS XX in 2019 will be held in Istanbul (Turkey) and organisation is in progress. The conference venue for EUROANALYSIS XXI is to be held in Maastricht (The Netherlands).

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| Chair: | Slavica Ražić (Serbian Chemical Society), 2017-2019 |
| Past-Chair: | Paul Worsfold (Royal Society of Chemistry, 2011 – 2016) |
| Secretary: | Wolfgang Buchberger (Austrian Society for Analytical Chemistry, 2012 – 2016) |
| Web Secretary: | Slavica Ražić (Serbian Chemical Society) |
| Treasurer: | Jiří Barek (Czech Chemical Society, 2014 – 2017) |
| Members: | 36 active delegates |
| Countries: | 29 (Austria, Belgium, Croatia, Cyprus, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Ireland, Israel, Italy, Former Yugoslav Republic of Macedonia, Netherlands, Norway, Poland, Portugal, Romania, Russia, Serbia, Slovak Republic, Slovenia, Spain, Sweden, Switzerland, Turkey and United Kingdom) |

Division of Chemical Education

The conference entitled 7th EuroVariety – European Variety in University Chemistry Education was organised by the University of Belgrade – the Faculty of Chemistry, the Serbian Chemical Society and the EuCheMS Division of Chemical Education <http://www.chem.bg.ac.rs/eurovariety>.

The main aim of the Conference was to provide an opportunity to share knowledge and experience relating to the important issues concerning university chemistry and chemical technology education, in order to prepare future students to better respond to their personal needs and the needs of contemporary society, as well as to meet the labour market requirements. Some conference topics were: "Development of the university curricula for BSc, MSc and PhD chemistry studies", "Chemistry education through university-industry partnerships", "Laboratory work as an element of problem solving and inquiry-based chemistry education", "Ethical guidelines and university chemistry education for sustainable development", "Development of educational competencies of academic chemistry teachers", "Evaluation of learning outcomes and problems relating to assessment in HEIs". The 7th EuroVariety conference was attended by 73 participants from 29 countries. The contributions of participants were presented through: 2 plenary lectures (Michael Seery - University of Edinburgh and Silvija Markic – Ludwingsburg University of Education), 3 keynote lectures (Matthew J. Almond – University of Reading, Natasa Brouwer – University of Amsterdam and Georgios Tsapalis – University of

Ioannina), 40 oral presentations, 18 poster presentations, 3 workshops, and 1 chemistry show.

The annual DivCEd meeting was held in Belgrade on Friday, 30 June and was attended by 19 members, deputy members and observers. 19 national annual reports are published on the division's website. Antonella Rossi has been elected for the position of DivCEd treasurer and Iwona Maciejowska - reelected for the position of DivCEd chair. During the DivCEd council meeting several issues were addressed, among them a course "Ethics for chemistry students" – DivCEd cooperates with the EuCheMS Working Party on Ethics in Chemistry. The need for a more outcomes learning approach than content-oriented approach in designing such courses was stressed.

150th anniversary of the periodic table – a task group under the leadership of Ilka Parchmann was established. Apart from the idea promoted by the president David Cole-Hamilton "Periodic table for every primary school in Europe", some other suggestions have been developed e.g. creating an online game, setting up a website.

It was noticed that the Chemistry Quality Eurolabels (Euro-bachelor and Euromaster) – a marketing scheme for chemistry degrees at Higher Educational Institutions are used by some universities. Additionally, the Quality mark for pre-service teacher training was proposed and a task group

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| Chair: | Iwona Maciejowska (re-elected in 2017) |
| Vice Chair: | Dragica Trivic (for Eastern Europe) Karolina Broman (supported by Ilka Parchmann) (for Western Europe) |
| Secretary: | Rachel Mamlok-Naaman |
| Treasurer: | Antonella Rossi (elected July 2017) |
| Members: | 25 + 1 observer (Division of Analytical Chemistry) |
| Countries: | 25 (Croatia, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Ireland, Israel, Italy, Former Yugoslav Republic of Macedonia, Netherlands, Norway, Poland, Portugal, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey, United Kingdom) |

was formed. This group will start with evaluation of EC2E2N position papers (e.g. Towards European quality labels for teacher education programmes).

DivCEd engagement in ECC was discussed. A stronger participation of DivCEd with specific day/topic devoted to chemical education, plenary lecture (e.g. about the role of education in the further development of chemistry, poster session, and workshops for university lecturers who usually are the main audience of such conferences (such as those in Nuernberg, Prague etc.)) was proposed. Taking into account financial conditions, Michael Seery has been invited to provide a workshop "Practical Approaches for Laboratory Education".

The Division continues to cooperate with the Committee on Chemical Education IUPAC, EuCheMS Working Party on the History of Chemistry, and ECTN.

The divisional conference European Conference on Research in Chemical Education (ECRICE) will be organised by Warsaw University and Polish Chemical Society on 2 - 6 September 2018. ECRICE is the forum for researchers and teachers to exchange research experiences in chemistry education and about teaching and learning chemistry at all levels (<http://www.ecrice2018.pl>).

Since the start of 2017, a monthly DivCEd Newsletter has been published and distributed among the delegates. Peter Childs has been nominated to the EuCheMS Historical Landmarks Committee.

Division of Chemistry and the Environment

The publication organ of DCE is the journal *Environmental Science and Pollution Research* (ESPR) that continued to experience an extraordinary growth since 2011, having experienced a 10-fold increase in the number of submitted and published manuscripts in this period, with a total of almost 2000 manuscripts expected to be published in 2017. The French DCE delegate Philippe Garrigues acts since 2011 as Editor-in-Chief of ESPR. Five DCE delegates are Editors: Walter Giger (Switzerland), Ester Heath (Slovenia), Roland Kallenborn (Norway), Santiago V. Luis (Spain) and Gerhard Lammel (Germany). Five DCE delegates are members of the Editorial Board.

The 16th International Conference on Chemistry and the Environment (ICCE 2017) was held on 18 – 22 June 2017 in Oslo, Norway. The conference president was the local DCE delegate, Roland Kallenborn. The ICCE 2017 provided a unique information and communication platform for environmental scientists and a forum of exchange with their collaborators in (eco-) toxicology, analytical chemistry, microbiology, geosciences and other disciplines. One session was dedicated to teaching, focusing on representation of the "Environmental Chemistry" discipline in programmes of higher education. More than 400 researchers coming from academia, industry and in governmental institutions, and from more than 40 countries mainly from Europe but also from America, Asia or Africa, attended the conference. It was organised through a series of specific thematic symposia developed from Sunday evening to Wednesday, a number of satellite events and technical sessions held on 18 and

22 June and was complemented by exhibitors presenting the latest equipment and services in the field of environmental chemistry, <http://icce2017.org/>. Plenary speakers were Leiv K. Sydnes, from the University of Bergen, Norway, talking on "Chemistry in the Service of Society", Rupert Simon, from ECHA, Finland, talking on "Regulations of Chemicals in the EU", Åke Bergman, Swetox Reseach Center, Södertälje, Sweden, talking on "Persistent organic pollutants: History, lessons learned and the way ahead" and Lars-Otto Reiersen from the Arctic Monitoring and Assessment Programme, Oslo. The Conference involved a strong participation of the ACS: Members of the Environmental Division of the ACS (ENV) played a key role in the organisation of one of the satellite events and one of the main symposia at the conference. During the Conference, the Division of Chemistry and the Environment had the honour of giving its 2017 Divisional award to Søren Jensen, one of the most remarkable pioneers in the field of POPs. A Special ESPR Issue will be dedicated to scientific contributions presented at the ICCE 2017.

The 17th International Conference on Chemistry and the Environment (ICCE 2019) will be held on 16 – 20 June 2019 in Thessaloniki, Greece. The Conference president will be the local DCE delegate, Ioannis Katsogiannis. The initial steps of the organisation have been set up by the local organisation committee.

The meeting of the Steering Committee of the Division took place in Bordeaux on 24 February 2017, hosted by the

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| Chair: | Santiago V. Luis, Spain (2015–2017) |
| Treasurer: | Roland Kallenborn |
| Secretary: | Willem de Lange, The Netherlands |
| Members: | 25 |
| Countries: | 23 (Austria, Belgium, Croatia, Cyprus, Czech Republic, France, Finland, Germany (2), Greece, Hungary, Israel, Italy, the Netherlands, Norway, Poland, Portugal, Russia, Serbia, Slovenia, Spain (2), Sweden, Switzerland, United Kingdom) |

French Chemical Society, with the participation of 6 DCE delegates and the online participation of Roland Kallenborn, Oslo, and one representative of the ACS AGRO from US.

The Annual meeting of the DCE took place in Oslo on 17 June 2017, hosted by the University of Oslo and within the activities associated to the 16th International Conference on Chemistry and the Environment (ICCE 2017).

The leitmotif for the activities of the DCE during 2017 has been the interaction with other academic associations and institutions, in particular other EuCheMS Divisions, promoting all levels of interaction between scientists and specialists in the fields covered by the Division. In this regard, a strong cooperation has been established with the ACS ENV Division with the collaboration in the organisation of seminars or satellite events at the respective Conferences. A similar interaction is being explored with ACS AGRO. The DCE maintains a strong link with the Division of Green and Sustainable Chemistry with the involvement of delegates of both Divisions in the respective Divisional conferences. Both Divisions have shared responsibility for the renewed ESCA award that will be decided this year by a joint committee appointed by both Divisions. Interactions are also maintained with other Divisions like the DAC. The DCE and its members have also contributed to different consultations with different institutions, including ECHA, and participated in several EuCheMS activities, such as the involvement in the *Chemistry in Europe* EuCheMS Newsletter, the representation of EuCheMS at the CEM of the EU to South Africa, the EuCheMS' contribution to the glyphosate debate at the EU level, the search for experts for the EFSA consultation on acrylamide or the participation in public activities regarding the prohibition of chemical weapons, including the diffusion of the *Seville Declaration on the use of Chlorine in Warfare*.

Division of Chemistry in Life Sciences

Key activities of the Division consisted in reactivating its structure and activities, including recruitment of active members from 20 countries, headed by Professor Anna Bernardi, as well as selection of a new Chair (Sonsoles Martin-Santamaria, ES). A new Secretary (Anna Bernardi, IT) and Treasurer (Marko D. Mihovilovic, AT) were also appointed.

The Division meeting for 2017 was not previously organised. A proposal for a one-day symposium to be held at the end of 2017 was not considered as a good option, so it was decided to focus on the organisation of the Division meeting in 2019.

The new Chair considered the idea of organising a joint meeting in Madrid in 2019 with EU-OPENSREEN (in recent years, they have been organising a biennial European Chemical Biology Meeting – ECBS – with 5 editions). The EuCheMS Executive Board was consulted by the Chair and expressed a positive answer to this putative joint meeting. Since EU-OPENSREEN was also interested, several conversations have already taken place and this joint meeting will hopefully be organised in April 2019 in Madrid with Martin-Santamaria acting as co-Chair.

Among future activities (up to 2021) are EuCheMS recognised events: Dutch Peptide Symposium 2017 (8 June 2017, Eindhoven, The Netherlands), XIV-EPI/IV-Chemical Biology Division 2018 (5 – 7 February 2018, Barcelona, Spain).

The following events will be organised: Division meeting during the ECC7 in Liverpool in 2018, the session on “Glycans in Medicinal Chemistry: Carbohydrate-Based Vaccines” at the XXV International Symposium on Medicinal Chemistry organised by the European Federation Medicinal Chemistry (EFMC-ISMC 2018), scheduled to take place on 2 – 6 September 2018 in Ljubljana, Slovenia. The organiser of the event is Sonsoles Martin-Santamaria as Chair of the LS Division. The “Chemistry in Life Sciences” EuCheMS Division congress will be organised in April 2019 in Madrid, Spain. Another future activity will be promoting more scientific activities under the EuCheMS “umbrella” at the frontier of the Chemistry with Biology and Biomedicine.

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| Chair: | Sonsoles Martin-Santamaria |
| Secretary: | Anna Bernardi |
| Treasurer: | Marko D. Mihovilovic |
| Members: | 21 |
| Countries: | 20 (Austria, Belgium, Finland, France, Germany, Greece, Hungary, Ireland, Italy, Israel, The Netherlands, Poland, Portugal, Romania, Serbia, Slovenia, Spain, Sweden, Switzerland, Ukraine) |

Division of Computational and Theoretical Chemistry

Among the Division's key activities in 2017 was the 11th Conference on Theoretical and Computational Chemistry (11EU-CO-TCC) that took place in Barcelona on 4 – 7 September 2017. The Conference was jointly organised with the Catalan Chemical Society. This biennial conference has been the main event of the Division and an important gathering of the European computational and theoretical chemists since the mid-90s. The following invited speakers gave presentations at the conference: Benedetta Mennucci (Università de Pisa, Italy), Célia Fonseca-Guerra (VU University Amsterdam, The Netherlands), Clémence Corminboeuf (Ecole Polytechnique Fédérale de Lausanne, Switzerland), Feliu Maseras (Tarragona, Spain), Inés Corral Pérez (Universidad Autónoma de Madrid, Spain), Jeremy Harvey (KU Leuven, Belgium), Pedro A. Fernandes (University of Porto, Portugal), Robert Paton (University of Oxford, United Kingdom), Ursula Roethlisberger (Ecole Polytechnique Fédérale de Lausanne, Switzerland) and Walter Thiel (Max-Planck-Institut für Kohlenforschung, Mülheim an der Ruhr, Germany). For more information, see: <http://www.11euco-tcc.org/>.

On 5 September 2017, during EUCCO-TCC2017 the annual Division meeting took place. This was the first time that the new officers of the Division chaired the meeting: Péter Szalay as Chair, Tanja van Mourik as Secretary. During the meeting the Division's treasurer was elected – Hans-Peter Lüthi. Two new delegates joined the Division in 2017:

in February, Zoe Cournia representing the Greek Chemists Association, and in March, Stefan Kast representing the German Chemical Society. He replaces Frank Oeillien, who is retiring after 7 years of work for the Division.

The Division's web page was updated in early 2017. It now includes the new name of the Division, general information, job adverts, and conference announcements. The job adverts and conference announcements are regularly updated and are also distributed among the delegates' member networks. The Division has participated in the SUMO-CHEM proposal to H2020 for establishing an Open Molecular Science European Research infrastructure. The proposal failed but the Division is committed to contribute to the Open Science initiative by EGI. EUROMASTER and EURODOCTORATE in Theoretical Chemistry and Computational Modeling (TCCM) are flagship endeavour of several members of the Division. A new proposal has been submitted for Erasmus Mundus.

We will continue to run the Conference on Theoretical and Computational Chemistry every two years. The next meeting will be held in September 2019 in Perugia, Italy. We aim to contribute to the 7th EuCheMS Chemistry Congress, which will take place 26 – 30 August in Liverpool (UK). A symposium on computational chemistry is under organisation.

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| Chair: | Péter Szalay |
| Secretary: | Tanja van Mourik |
| Treasurer: | Hans-Peter Lüthi |
| Members: | 32 delegates |
| Countries: | 28 (Austria, Belgium (2), Croatia, Czech Republic, Cyprus, Denmark, Finland, France, Germany, Hungary, Ireland, Israel, Italy (2), Former Yugoslav Republic of Macedonia, Serbia, Norway, Poland, Portugal, Romania, Russia, Serbia, Slovakia, Slovenia, Spain (2), Sweden, Switzerland, Turkey, United Kingdom (2)) |

Division of Food Chemistry

The core activities of the Division (here considering some events supported by FCD active Members) are mainly focused on I) congresses and conferences support/organisation; II) planning of advanced teaching/training activity; III) awards and fellowships and iv) lobbying activity regarding political decisions in Food Quality and Safety Area (also in collaboration with other European non-profit Scientific Organisations).

Main Events organised or supported in 2017 were the following:

- Chemical Reaction in Foods VIII, 15 – 17 February 2017, Prague, Czech Republic, co-organised by ICT Prague, University of Piemonte Orientale and FCD-EuCheMS
- CoCoTea2017, 25 – 28 June 2017, Turin, Italy, organised by University of Turin, University of Piemonte Orientale and FCD-EuCheMS
- IVAS (In Vino Analytica Scientia), 17 – 20 July 2017, Salamanca, Spain
- EuroFoodChem XIX (Divisional Congress), 4 – 6 October 2017, Budapest, Hungary
- 5th MS-Food Day; 11 – 13 October 2017, Bologna, Italy

During 2016 – 2017, the FCD Board opened the discussion about the organisation of the "First Advanced School of Food Chemistry". The topic identified during a previous Board Meeting (28 November 2016, Vienna), then consoli-

dated during the last Board Meeting that took place in Budapest (2017) is focused on "Food Chemical Composition Role in Authenticity and Traceability"; the first edition will be organised in Italy (2018). The School will be organised in collaboration with European Scientific Boards (JRC- European Commission, SAFE Consortium, other international Boards) and some analytical-oriented Companies. The aim of the School is to provide an update on "food chemistry" based topics, including training for advanced schools for young scientists (principally EU PhD students) and for young technicians from the food industry.

Some Awards and Fellowships have been dedicated to young food chemists participating in the events supported by FCD – EuCheMS:

- Two fellowships for young scientists (free entry to the next Congress Edition of PIF 2019, Germany) have been released by FCD-EuCheMS
- Two fellowships for young scientists (free entry to the next Congress Edition of CoCoTea 2019, Germany) have been released by FCD-EuCheMS

The FCD Board considers the financial support for young researchers a key target; a specific core action in the near future will be to increase the number of fellows. Moreover, collaboration with other EuCheMS Divisions is taking place, namely with the Division of Analytical Chemistry: a part of the Annual Meeting of the FCD Board is open to an "observer" representing the DAC.

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| Chair: | Marco Arlorio |
| Secretary: | Joana Amaral |
| Treasurer: | Michael Murkovic |
| Members: | 60 Delegates; 2 external Observers (EU Commission – JRC), Lithuania |
| Countries: | 39 (Albania, Austria, Belgium, Bosnia & Herzegovina, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, European Commission, Estonia, Finland, France, Georgia, Germany, Greece, Hungary, Israel, Italy, Latvia, Former Yugoslav Republic of Macedonia, Mongolia, The Netherlands, Norway, Poland, Portugal, Republic of Ireland, Romania, Russia, Serbia and Montenegro, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey, Ukraine, United Kingdom, Uzbekistan) |

Furthermore, there is an activity aimed at sharing scientific interest with FCD, which is currently being developed with the SAFE Consortium, EFFoST and other technical/scientific non-profit European Boards.

The FCD is also working on the organisation of some one-day events in Brussels, in collaboration with members of the European Parliament. These events will be dedicated to specific topics, ranging from food quality to food safety (e.g. contaminants in foods: acrylamide and trans fatty acids in foods).

On behalf of EuCheMS, the Food Chemistry Division recently submitted its feedback on the European Commission's draft Regulation on Establishing Mitigation Measures and Benchmark Levels for the Reduction of the Presence of Acrylamide in Food. According to the European Food Safety Authority, this chemical that naturally forms in asparagine-free containing food products during every-day high-temperature cooking, potentially increases the risk of developing cancer for consumers in all age groups. A document reporting the strategies of mitigation has been prepared and submitted (https://ec.europa.eu/info/law/better-regulation/initiatives/ares-2017-2895100/feedback/F1943_en).

The 2017 Annual Meeting took place in Budapest (Hungary), during the XIX EFC Congress (3 October 2017).

Within the most successful activities are events organised or coorganised by the FCD/EuCheMS-supported Events (CoCoTea2017; EuroFoodChem XVIII, and other events), with large participation of delegates from EuCheMS and other Societies. The activity confirmed an intensive exchange and collaborations with other organisations; some activities in collaboration with Asia are currently ongoing (FCD is involved in the organisation of the new CoCoTea ASIA Edition, China 2018).

During the Board Meeting (3rd October 2017, Budapest) the drafting and the editing of periodical Divisional News Brief was discussed. A periodical short e-news will be prepared (two issues per year), starting from 2018.

The key long-term activities are:

- EuroFoodChem XX (Divisional Congress), 2019, Porto, (Portuguese Chemical Society)
- Writing and editing of Consensus Documents/Position Papers: "Role of Food Chemistry in Food Quality and Safety in Europe" (running title)
- Revision of the "Who's Who in Food Chemistry" database

As reported in the general programme of the first and second terms of the current Chair (2015-2017; 2018-2021), the Division will continue in the near future to develop some key points focused on:

- Harmonisation activity (mainly regarding the National EU partners of FCD, more particularly avoiding overlapping of relevant International Scientific Events in Europe);
- Connection activity (firstly, improving the connections between FCD and other Divisions of EuCheMS, primarily with Division of Analytical Chemistry; secondly, improving connections with different non-profit Scientific Organisations, particularly with Food Companies and EU Bodies (e.g. Food Drink Europe, ILSI Europe; Food For Life Platform), creating new links and partnerships;
- Design activity (mainly regarding the creation of an Academic/Technical EU network in Europe based on Food Chemistry skills, when possible collaborating with the European Commission, particularly with JRC Laboratories and EU's/National Reference Laboratories located in Europe).

The FCD Board highlights that the Board must be partially renewed during the last Board Meeting organised in Budapest: the Chair (Prof. Marco Arlorio, Italy) was designated and confirmed for his second term (2018-2021); Prof. Michael Murkovic (Austria, former Secretary, closing the second term) was designated as new Treasurer; Joana Amaral (Portugal) was designated as new Secretary of the Board. Finally, during the Board Meeting the necessity to create some internal Working Groups was discussed, as were plans to design a new "functional" internal structure of the Division with specific aims (e.g. conferences organisation; drafting of position papers; organisation of Advanced School and more).

Division of Green and Sustainable Chemistry

Prof. Piotr Stepnowski was elected Vice-Chair of the DGSC and was included in the DGSC Steering Committee. The 2017 DGSC AGM was held in York on 3 September 2017, preceding the DGSC conference. The 2018 AGM will be held in Liverpool concurrent with the 7th EuCheMS Chemistry Congress.

The 3rd DGSC conference was hosted by The University of York in September 2017, organised by Professor Mike North. Plenary speakers included the 2017 Nobel Prize for Chemistry recipient, Prof. Ben Feringa.

Concerning the European Sustainable Chemistry Award (ESCA), working closely with the DCE, the call guidelines and application process was discussed. The significant contribution by Prof. Santiago Luis is acknowledged, including finding a sponsor. Sponsorship for the 2018 award was secured from Inkemia Green Chemicals. The Call documentation is now finalised and on the DGSC and DCE webpages, as well as main EuCheMS awards webpage, <http://www.euchems.eu/wp-content/uploads/2011/03/170427-ESCA-Official-Call-for-nominations.pdf>. The assessment panel has been selected and consists of Nicholas Gathergood (DGSC chair), Santiago V. Luis (DCE chair), and 2 delegates from each Division. The deadline for applications was 15 July 2017, and the announcement of the award winner will be in January 2018. The recipient will be invited to give a talk and receive the award at the ECC7 in Liverpool.

Professor Gathergood has contributed expert opinion to a white paper in preparation, especially the "Importance of

sustainable manufacturing for (bio)pharma industry". This is due to his participation on 28 February 2017 as an invited expert for (bio)Pharma Europe high-level seminar in Brussels. The event was organised by the Synthesis and Solid State Pharmaceutical Centre, Ireland. The seminar was developed around (bio)pharmaceutical manufacturing of and for the future and the enabling policy environment it requires to deliver benefits to patients and innovation and contribute to EU's competitiveness. The event was attended by high-level policy and decision-makers from the European Parliament, European Commission, Council and representatives of the Member States. Professor Gathergood stated the EuCheMS position (directed by advice from the Executive committee) on EU research funding, and how this is related to commercialisation of research. DGSC research priorities were also highlighted in the context of the aims of this white paper.

Professor Gathergood was invited to talk at the DCE biannual conference in Oslo 2017. He presented work at the interface of DGSC and DCE (specifically design of biodegradable and mineralisable chemicals) and gave an overview of DGSC activities and practices to DCE conference attendees. Dr Willem de Lange (EuCheMS DCE Secretary) was invited to give a reciprocal talk at the DGSC conference in York. The Italian Chemical Society DGSC membership increased by 21% in 2017 compared to 2016. The three main fields were organic chemistry, industrial chemistry and environmental and cultural heritage. 5th Green and Sustainable Chemistry Workshop was held in June 2017 in Rome (50 participants). A sponsorship to the MW and US School in September in Belgium was provided.

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| Chair: | Nicholas Gathergood |
| Vice Chair: | Piotr Stepnowski |
| Secretary: | Katalin Barta |
| Treasurer: | James Sullivan |
| Members: | 25 |
| Countries: | 19 (Austria, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Ireland, Israel, Italy, Netherlands, Poland, Portugal, Slovakia, Spain, Turkey, United Kingdom) |

The DGSC will be participating at the DOC Young Investigator Workshop at the University of Oxford in 2018. Dr Ana Rita C. Duarte will represent the DGSC with the aim of establishing collaborations between members of the two Divisions.

A special issue dedicated to Green Chemistry on the web journal *La Chimica e l'industria* (8 scientific papers: 2 from industries and 6 from academia) was published and led by Prof O. Piccolo. Conferences on Green Chemistry dedicated to teachers and students of high schools (in 2017 and 2018) are organised by members of the Italian Chemical Society DGSC group. The Estonian Chemical Society DGSC has organised a summer school in Tallinn in August 2017. This is part of the CHOAS Cost Action with 35 participants expected. SINBIO – SUSTAINABLE INNOVATION IN BIOENERGY funded by the EU Sustainable energy award (Business section) was granted in 2017. The goal is to “tap the rural potential of renewable biomass plants in Slovakia”. The application for a National ENERGY GLOBE Award 2016 submitted by Miba Steeltec in Slovakia was successful. The Slovakian delegate, Prof. Ewa Chmielewska has also raised public awareness at the interface of green chemistry and chemistry in the environment with publications titled ‘Bioinspiration from nature and nanomaterials – a perspective water protection’, ‘A 50 years of PCB detection in Environment’ and ‘New progressive materials and nanotechnologies in water management’.

As part of succession planning, the election of the next Chair was completed. Congratulations to Prof. Ana Aguiar-Ricardo who will become the next DGSC chair in January 2019.

It is our pleasure to announce that the location of the 4th EuCheMS Congress on Green and Sustainable Chemistry (EuGSC) 4th EuGSC will be Tarragona, Spain. Chair of the 4th EuGSC will be Prof. Arjan Kleij from the Catalan Institution for Research and Advanced Studies (ICREA), Institute of Chemical Research of Catalonia (ICIQ), The Barcelona Institute of Science & Technology. The date has been confirmed as 22 – 25 September 2019.

Division of Inorganic Chemistry

Prof. A. Trzeciak, Prof. Yu. Gorbunova and Dr. K. Herbst were elected for the Steering Committee of the Division.

The activities of the Division were concentrated on the conference EICC-4 (EuCheMS Inorganic Chemistry Conference) which was held at the University of Copenhagen, Southern Campus, from 2 to 5 July 2017. Both the Organising Committee and the Scientific Committee were formed from inorganic chemists being active in the Danish Chemical Society. The conference was organised jointly by the chemical departments of the University of Copenhagen and the Technical University of Denmark, as well as the Danish Chemical Society on behalf of the EuCheMS Division of Inorganic Chemistry. There were 270 participants at the conference, coming from 34 countries, of which 22 were European. 28 participants were from non-European countries. There were 6 plenary lectures and 9 keynote lectures, 11 invited lectures and 69 contributed lectures. Keynote, invited and contributed lectures were held in 3 parallel sessions. 120 posters were presented in 2 poster sessions. Altogether there were 130 poster abstracts. By far most of the participants were from academia; 6 – 7 participants were from industry. Social activities comprised both a very well-attended welcome reception and a conference dinner in the National Danish Aquarium.

Parallel to the conference, the national delegates to the EuCheMS Division of Inorganic Chemistry held a meeting. 9 national delegates were present (from Austria, Den-

mark, Israel, Italy, Poland, Russia, Spain, Switzerland and The Netherlands). There was a discussion about how to strengthen inorganic chemistry as a discipline within chemistry, e.g. sending a press release to chemical magazines on a successful event like the EICC conference. The Division also hopes to influence the programme of the European chemistry congresses towards a larger visibility of inorganic chemistry (e.g. by a dedicated inorganic session at this congress). The main point on the agenda was the decision on the locations of future EICC Conferences in 2019 and 2021. Two suggestions were on the table, Moscow and Vienna. Both locations were briefly presented by the Russian and Austrian delegates, and the arguments for and against the suggestions were discussed. It was finally decided to award the EICC-5 Conference in 2019 to Moscow, and the EICC-6 Conference in 2021 to Vienna. An important argument for Moscow in 2019 is the 150th anniversary of the Periodic Table put together by the Russian chemist D.I. Mendeleev. Celebrations of this anniversary in 2019 will direct public attention towards chemistry in general and inorganic chemistry in particular.

Among future activities are discussion with the Editor of the *European Journal of Inorganic Chemistry* about the publication of the special issue based on the EuCheMS Inorganic Chemistry Conference in 2019.

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| Chair: | Anna Trzeciak (Polish Chemical Society) |
| Secretary: | Konrad Herbst (Danish Chemical Society) |
| Members: | 16 delegates |
| Countries: | 16 (Austria, Belgium, Denmark, Germany, Hungary, Israel, Italy, Netherlands, Poland, Portugal, Russia, Slovakia, Spain, Sweden, Switzerland, United Kingdom) |

Division of Nuclear and Radiochemistry

For the Division of Nuclear and Radiochemistry (DNRC), 2017 has been a relatively calm year with no major conferences organised on behalf of the Division. We organised the 9th International Conference on Nuclear and Radiochemistry (NRC9) last year and we will organise in 2018, according to tradition, the RadChem conference in Mariánské Lázně, Czech Republic. This will be the 18th event in this series and will be organised on behalf of DNRC by the Czech Chemical Society, Ioannes Marcus Marci Spectroscopic Society and the Czech Technical University in Prague. The main work of the Division in 2017 was to evaluate two applications (from CTU in Prague and University of Helsinki) to be granted the rights to use the EuroMaster label for education in Nuclear Chemistry. The final decision on the applications was taken at the Division's Annual Meeting on 29 August 2017. The Annual Meeting is organised in connection with the 5th International Nuclear Chemistry Congress (INCC) in Gothenburg, Sweden. INCC is organised by our colleagues at the Nuclear Chemistry and Industrial Materials Recycling at Chalmers University. Further information on the EuroMaster NRC label can be found in the Division's Annual Report from last year.

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| Chair: | Jon Petter Omtvedt |
| Secretary: | Jan John (Czech Chemical Society) |
| Members: | 20 active members |
| Countries: | 13 (Cyprus, Czech Republic, Denmark, Finland, Germany, Greece, Hungary, Israel, The Netherlands, Norway, Poland, Portugal, Russia, Serbia, Slovakia, Spain, Sweden, Switzerland, Turkey) |

Division of Organic Chemistry

The mission of the Division is to promote Organic Chemistry in Europe, in the broadest sense. The flagship event of the Division is the annual Young Investigator Workshop (EuCheMS-OD-YIW) that gathers the rising stars in organic chemistry across Europe with the aim to discuss the most exciting developments and the challenges ahead of the field. This workshop typically consists of a programme where each participant (typically one per member country) presents their own research, with plenty of time for discussion to promote scientific exchange. This event is gaining international recognition bridging intercontinental gaps across the world. The American Chemical Society supports the EuCheMS-OD-YIW by welcoming two participants of their choice to present their research at an ACS National meeting. Reciprocally, EuCheMS-OD invites two young faculty members located in the USA to attend our annual workshop. This two-directional arrangement will be extended to other continents/countries (Africa, Australasia, Canada, China, Japan, South America), as a matter of priority. To increase visibility, SYNLETT publishes yearly a Special Issue assembling research papers of our YIW's participants, an initiative that we

received gratefully. The event also receives the support of Wiley, for which the Division is also very grateful. The last Edition of the YIW took place in Germany (Bergisch Gladbach) just after the 20th European Symposium in Organic Chemistry (2 – 6 July, Cologne, Germany), and was hosted by Professor Dr. Hans-Guenther Schmalz with Dr. Martin Breugst (University of Cologne, Germany). During the meeting, the Young Investigator Award 2017, sponsored by the European Journal of Organic Chemistry was presented to Dr Silvia Osuna, Institut de Química Computacional i Catàlisi (IQCC), University of Girona, Spain. The event involved 22 European Young Investigator participants. The next event will take place in Oxford, organised by Professor Veronique Gouverneur, after the 7th EuCheMS Chemistry Congress (26 – 30 August 2018, Liverpool, UK).

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| Chair: | Veronique Gouverneur (Royal Society of Chemistry, 2015 onwards) |
| Secretary: | Gianluca M. Farinola |
| Treasurer: | Gianluca M. Farinola |
| Members: | 27 active delegates |
| Countries: | 27 (Austria, Belgium, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, the Netherlands, Hungary, Ireland, Israel, Italy, Latvia, Lithuania, Norway, Poland, Portugal, Russia, Serbia, Spain, Sweden, Switzerland, United Kingdom) |

Division of Organometallic Chemistry

The main divisional conference, 22nd EuCOMC (European Conference on Organometallic Chemistry), took place in Amsterdam, 9 – 13 July 2017. The conference venue was a historical location: Beurs van Berlage – formerly the first stock exchange building transformed into a conference centre. The number of delegates was about 380 from 33 different countries, mostly from Germany, France, The Netherlands, Spain and the United Kingdom; 33 were exhibitors. For further information see: www.eucomc2017.amsterdam.

Further activities: International School of Organometallic Chemistry (ISOC2017, 2 – 6 September 2017), San Benedetto del Tronto: about 80 participants were registered. This year's edition was particularly special, in light of the outstanding effort that colleagues in Camerino have produced in order to organise the School in spite of the recent earthquake. The 23rd EuCOMC is planned to take place in 16 – 20 June 2019 in Helsinki (host: Timo Repo).

In the long term, the Division is determined to continue presenting the 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 Norway, Switzerland, Turkey and Israel”. The winner of the prize for the year 2017 was Professor David Milstein from the Weizmann Institute of Science, Israel. The Prize Ceremony and an Award Lecture by the winner took place at the 22nd EuCOMC in Amsterdam (13 July 2017).

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| Chair: | Jan Čermák (Czech Chemical Society), 2014 – 2020 |
| Vice Chair: | Helena Grennberg (Swedish Chemical Society) |
| Treasurer: | Kees Elsevier |
| Members: | 26 permanent delegates including one observer (from at present EuCheMS non-member society). Two additional member societies have not appointed a permanent delegate. |
| Countries: | 26 (Austria, Belgium, Bulgaria (presently non-member), Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Ireland, Israel, Italy, Latvia (no appointed delegate), The Netherlands, Norway, Poland, Romania, Russia, Slovakia, Spain, Switzerland, Sweden, Turkey (no appointed delegate), United Kingdom) |

Division of Physical Chemistry

Since the last report the following activities were performed:

- Preparations for General Assembly 2017: 24 September 2017, Borgo, Corsica, France.
- Preparations for elections for the Division Chair, Vice-Chair, and Treasurer (term: 2018 – 2020). Candidates for these duties were found. The deadline for the elections was July 31, 2017. Electing a Treasurer goes along with the decision that the Division of Physical Chemistry will launch a budget line starting from 2018.
- Preparations for the 2nd European Conference on Physical Chemistry (23 – 27 September 2017, Borgo, Corsica, France). Organiser is ESF (Chair: Carole Duboc, Grenoble, France).
- Preparations for the 3rd European Conference on Physical Chemistry: This conference is scheduled for 2019. Details, where this conference shall be held and who will be responsible, were discussed during the General Assembly of the Division (24 September 2017, Borgo, Corsica, France).
- Conferences recently organised by approval of the Division of Physical Chemistry: 7th Femtomat Conference (Mauterndorf, Austria), 20 – 22 March 2017; International School of Physical Chemistry about Materials and Biomedical Applications (2 – 7 July 2017, Venice, Italy).

Among the most important recent achievements are:

- Publication of selected contributions from the “First European Conference on Physical and Theoretical Chemistry”: Special Issue published in *Z. Phys. Chem.*: Vol. 230, Issue 9, pp. 1199-1451 (2016). This Special Issue contains 14 articles printed on ca. 250 pages.
- Shaping of the programme of the 2nd European Conference on Physical Chemistry (23 – 27 September 2017, Borgo, Corsica, France)

The Division of Physical Chemistry agreed during the General Assembly held on 12 September 2016, Seville, Spain to the EuCheMS regulations on sharing the surplus of the Division's conferences.

A definition of core activities of the Division of Physical Chemistry was done during the 2016 General Assembly. This includes a list of candidates to be suggested for conferences, definition of timely issues in physical chemistry, update of activities in the member societies (including conferences and workshops), opportunities for positions, mobility, and teaching. This also includes contributions to future European Chemistry Congresses and joint activities with other EuCheMS Divisions and Working Parties on timely subjects.

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| Chair: | Eckart Rühl (Freie Universität Berlin, Germany) |
| Members: | 24 |
| Countries: | 20 (Austria, Cyprus, France, Germany (2), Greece, Hungary, Israel, Italy, The Netherlands, Norway, Poland, Portugal (2), Serbia, Slovakia, Slovenia, Spain (2), Sweden, Switzerland, Turkey, United Kingdom) |

Division of Solid State and Materials Chemistry

The key activity in 2017 was the 16th ECSSC held on 24 – 26 July 2017 in Glasgow, UK, at the University of Strathclyde, Technology and Innovation Centre, with Edmund Cussen as Chair.

The meeting was organised in conjunction with the Division of Solid State and Materials Chemistry. Following is the list of invited speakers: Valérie Pralong (CRISMAT Laboratory, Caen, France), J. Paul Attfield (University of Edinburgh, UK), Vladimir Cherepanov (Ural Federal University, Ekaterinburg, Russia), David Carpentier (ENS Lyon, France), Laurent Chapon (Institut Laue-Langevin, France), Kristina Edström (Uppsala University, Sweden), Claudia Felser (Max Planck Institute for Chemical Physics of Solids, Germany), Hubert Huppertz (University of Innsbruck, Austria), Stefan Kaiser (Max Planck Institute for Solid State Research, Stuttgart, Germany), Holger Kohlman (Leipzig University, Germany), Russell Morris (University of St Andrews, UK), Valeria Nicolosi (Trinity College Dublin, Ireland), Derek Sinclair (University of Sheffield, UK), Keith Stevenson (Skoltech Center for Electrochemical Energy Storage), Mathias Wickleder (University of Cologne, Germany) Xiaodong Zou (Stockholm University, Sweden).

The 17th ECSSC is planned to be held during 1 – 4 September in Lille (France). The Conference Chair is Olivier Mentré (Olivier.mentre@ensc-lille.fr).

The web manager has changed in 2016 and is now Andrei Shevelkov (shev@inorg.chem.msu.ru).

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| Chair: | Paul Attfield (Royal Society of Chemistry) |
| Secretary: | Antoine Maignan (French Chemical Society) |
| Members: | 18, including 5 observers |
| Countries: | 16 (Austria, Czech Republic, France, Germany, Greece, Hungary, Italy, The Netherlands, Portugal, Russia, Slovakia, Slovenia, Spain, Sweden, Switzerland, United Kingdom) |

Working Party on Chemistry and Energy

The main activities of the Working Party were: contributing to a review article on the “White Paper on Solar-Driven Chemistry” for an international journal, jointly with all the members of the panel who wrote it and providing suggestions for the ECC7-Liverpool programme on the topic of energy, environment and sustainability. Following-up on the suggestion of the President and thanks to the support of the Secretariat, the WP is increasing the number of societies represented, with the aim of reaching 20 and being upgraded to a Division. At present, 17 societies and 16 countries are represented. This is to be achieved in 2018.

Nicola Armaroli ends his term as WP chairman due to elections in the EuCheMS Executive Board. Aline Auroux (French Chemical Society) has been elected as the new chairperson and starts her service on 1 January 2018.

The WP had no feedback from the KIT staff regarding the organisation of the Energy Science & Technology Conference 2018, which had been initially planned in Karlsruhe.

In October 2017, the WP chairman was the EuCheMS representative in the Circular Economy Mission to Colombia. These missions are high-level political and business meetings outside the EU aimed at communicating and promoting sustainable and resource-efficient policies worldwide, with strong focus on renewable energies and technologies.

Planned future activities:

- Support European-wide efforts to enhance research funding on renewable energy, such as the application for a CSA-FET Flagship proposal, i.e., the follow-up of the initiative “Direct Conversion of Solar Energy: Renewables and More”.
- To select a EU-based energy conference, among those already existing, as the new gathering event of the professional network.

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| Chair: | Nicola Armaroli (Italian Chemical Society, 2011) |
| Members: | 21 |
| Countries: | 16 (Austria, Cyprus, Czech Republic, France, Germany, Greece, Hungary, Israel, Italy, the Netherlands, Portugal, Spain, Sweden, Switzerland, Turkey, United Kingdom) |

Working Party on Chemistry for Cultural Heritage

A steering Committee meeting of the WP was held in Stockholm on 2 June 2017, kindly hosted by the Swedish Chemical Society. The main issue discussed during the meeting was organisation of the fifth edition of the international Congress on Chemistry for Cultural heritage (CHEM-CH 2018) to be held in Bucharest (Romania) from 3 to 7 July 2018. Moreover, it has also been decided to have the next Steering Committee in Wroclaw (Poland) in 2019 and to organise the 6th edition of the International Congress on Chemistry for Cultural Heritage (CHEM-CH 2020) in Ravenna (Italy).

Recent achievement: A new member, Dr. Barbara Łydzba-Kopczyńska, has been nominated by the Polish Chemical Society and joined the WP. Dr. Kaj Thuresson replaced Dr. Yvonne Fors as member of the Swedish Chemical Society, Ilaria Burgio replaced Brenda Keneghan as Member of the Royal Society of Chemistry, Rita Wiesinger replaced Manfred Schreiner as member of the Austrian Chemical Society.

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| Chair: | Rocco Mazzeo (University of Bologna, Italian Chemical Society) |
| Members: | 14 |
| Countries: | 12 (Austria, Belgium, Croatia, Denmark, Germany, Italy, Former Yugoslav Republic of Macedonia, Romania, Russia, Sweden, Turkey, United Kingdom) |

Working Party on Ethics in Chemistry

Upon further consolidation of the Working Party on Ethics in Chemistry (WP EiC) during the 6th EuCheMS Chemistry Congress (Sevilla, Spain, 11 – 15 Sep 2016) involving the formulation and acceptance of General Statutes as working basis and the subsequent election of a Steering Committee (below) for four years, the WP EiC held its annual symposium on 6/7 July 2017 at the headquarters of the Italian Chemical Society (Roma) with 17 participants, (11 from Italy, 3 from Germany, and one each from Hungary, Romania, and Ukraine) (http://www.euchems.eu/wp-content/uploads/2017/10/SymposiumReport_JM_HF_HS_MG-0929.pdf). This year's aim was to bring previous general considerations on the needs of an educational component in chemists' academic education to action.

A task force coordinated by the EuCheMS President David Cole-Hamilton and in cooperation with Iwona Maciejowska (EuCheMS Division of Chemical Education) was established, with the goal to concretise an exemplary syllabus on ethical aspects in the professional practice, which Jan Mehlich volunteered to conceive as a sequence of video-recorded lessons. For 2018, it is planned to make the video-sequence available to interested colleagues in chemical faculties of universities within the EuCheMS member societies, and to promote and establish the topic as a general component in graduate and PhD students' education in Europe.

With Jan Mehlich as initiator and corresponding author, a group of WP EiC members published the programmatic paper on "The Ethical and Social Dimensions of Chemistry: Reflections, Considerations, and Clarifications" in *Chemistry A European Journal* 2017, 23, 1210-1218 (<http://onlinelibrary.wiley.com/doi/10.1002/chem.201605259/full>)

Members of the WP EiC were also involved in the debate on the pros and cons about the continued EU-market licence of glyphosate, the most extensively produced and applied herbicide worldwide (about 1 Mio t annually). On 10 May, a workshop took place in Brussels, co-organised by WP EiC member Pavel Drašar (CZ) and Hartmut Frank (D) as speaker; the controversial debate on the complex array of eco/toxicological considerations made it clear that the search for a scientifically, economically and socio-ethically balanced decision will be with us for a number of years (www.euchems.eu/policy-and-communication/policy-workshops/glyphosate-harmless-tool-sneaky-poison/).

Next Symposium/General Assembly of the WP EiC is planned to take place during the 7th EuCheMS Chemistry Congress (26 – 30 August 2018, Liverpool, UK) with programme details still being elaborated.

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| Senior Chair: | Luigi Campanella (Roma, Italy) |
| Chair: | Hartmut Frank (Bayreuth, Germany) |
| Vice Chair: | Anca Silvestru (Cluj-Napoca, Romania) |
| Treasurer: | Jan Mehlich (presently Taiwan) |
| Consultants: | Henning Hopf (Braunschweig, Germany), Dr. Frank Moser (Geneva, Switzerland) |
| Members: | 38 members from 17 countries, and an observer from the US |
| Countries: | 17 (Austria, Belgium, Czech Republic, Germany, Greece, Hungary, Italy, The Netherlands, Poland, Portugal, Romania, Russia, Spain, Switzerland, Turkey, Ukraine, United Kingdom) |

Working Party on the History of Chemistry

The Working Party on the History of Chemistry (WPHC) organises an international conference on the history of chemistry every other year. The 11th International Conference on History of Chemistry (11ICHC) of the Working Party on the History of Chemistry (EuCheMS) was held in Trondheim, Norway, 29 August-2 September 2017. The local host of the conference was the Department of Teacher Education, NTNU – Norwegian University of Science and Technology, in collaboration with the Norwegian Chemical Society. The 11th ICHC was attended by 111 participants, making it one of the highest attended conferences in the history of the ICHC. Participants came from Australia, Taiwan, Japan, China, Mexico, Canada, USA and most European countries. Historians and philosophers of science, professional chemists, current and prospective science teachers, came together to present and discuss ongoing research in the history of chemistry.

The programme consisted of three plenary lectures, 17 parallel sessions with 73 oral presentations, one film screening, and a concluding discussion panel, in addition to a social programme with excursions. In contrast to previous ICHC conferences there was no call for contributions on a specific theme. Instead, the three key note lectures were meant to inspire panel and individual submissions from a range of areas within the history of chemistry. Hasok Chang from the University of Cambridge spoke about “What history tells us about the nature of chemistry”, Maria Rentetzi from the National Technical University of Athens gave a lecture on “Living with radiation: What historians of chemistry have to

do with science diplomacy and international organisations”, while Anders Lundgren from the University of Uppsala presented on “Science in chemical industry – what did it do?”.

The 17 parallel sessions covered the following topics: Chemists and the IUPAC: Taking responsibility and taking actions, Chemical innovation systems in the Third Reich, Elements and the structure of matter, Alchemy and early chemistry, Women in chemistry, Dyes and pigments in history, Recent chemistry: new methodological approaches, Toxic products: communicating toxicity, Toxic products: toxic risks, Science teaching: historical approaches, Chemistry teaching: new approaches, Boundary work: chemistry and economy, Relating chemistry: translating chemistry across linguistics, disciplinary, and physical boundaries, Biographical approaches, and Polymers and plastics. Finally, a round table titled “What future for the history of recent chemistry and molecular sciences? New challenges in the history of chemistry and the molecular sciences”, concluded the conference.

The social programme included a demonstration of a 15th Century distillation furnace at the University Museum, and a full-day excursion to the UNESCO World Heritage Site of Røros, a 17th century mining town, amongst others.

The case studies and research discussed during the conference show the vitality of history of chemistry broadly construed and the existence of a vibrant community of scholars interested in the discipline. Of course, there is still room for

new studies, opened to wider geographic and chronological frameworks, to enrich the area offering a richer view of the historical connections between chemistry and society. This is why we look forward to the next conference: the 12th ICHC that will take place in Maastricht, The Netherlands, 6-9 August 2019.

The Working Party on the History of Chemistry published a report on the teaching of the discipline in 2007 (on the webpage). By updating the 2007 report and preparing an overview on the history of chemistry in Europe, the WP wanted to evaluate the current situation and help to identify how best to support and reinforce local, national and international initiatives. The preliminary results have been discussed during the WPHC business meeting in 10ICHC, and an interpretative presentation was published this year:

“The Mapping of the Teaching of History of Chemistry in Europe”, by Ignacio Suay-Matallana and José Ramón Bertomeu Sánchez, *J. Chem. Educ.*, 2017, 94 (2), pp 133–136 (access through the website).

The WPHC has started conversations with other Divisions and WP's, as well as the UK group of historians of chemistry, the Historical Group of the RSC, to plan activities for Liverpool. The WPHC will propose a lecture on the heritage of chemistry, fitting with the European Year of Cultural Heritage, celebrated in 2018. A Symposium dedicated to the History of the Periodic Table is planned in St Petersburg, in the frame of the 150th anniversary of Mendeleev's publication of his Periodic System.

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| Chair: | Brigitte Van Tiggelen (Walloon Royal Chemical Society, Belgium), 2013 |
| Vice Chair: | Annette Lykknes (Norwegian Chemical Society), 2011 |
| Secretary: | Ignacio Suay-Matallana (Royal Spanish Society), 2015 |
| Members: | 50 |
| Countries: | 21 countries represented by 23 member societies and 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 20 observers |

European Young Chemists' Network

The European Young Chemists' Network (EYCN) is a motivated team of young scientists from more than 22 European countries. The EYCN spent the last years working towards promoting the exchange of knowledge and experience among young chemists in academia and industry, as well as in professional and government bodies across Europe.

EYCN provides a platform to exchange new ideas and projects, improve the visibility of chemistry, bring chemistry closer to a wider audience and to people from outside the research field, such as industry, business, and management. Moreover, the EYCN aims to support young chemists at the beginning of their career with activities focused to develop soft-skills and to expand their possibilities. The EYCN is coordinated by a board consisting of 6 members: Chair, Secretary and four Team Leaders (Communication, Membership, Networks and Science). In May 2017, the new board was elected during the 12th DA in Heraklion (Greece) and it will be in charge until May 2019. The 2017 – 2019 elected board can surely lead to more progress and more success in the future. New delegates and interested young chemical societies received a Welcome Letter in order to increase the number of the EU countries involved in our Young Chemists' Network.

The EYCN has accomplished very important achievements, such as promoting ideas and projects, in collaboration with EuCheMS and Evonik Industries, with more planned for the future.

Public Outreach

- Publishing articles in newspapers and newsletters. The EYCN contributed to the newsletter *Chemistry in Europe* with the following articles "Chemistry Rediscovered" (2017/3) and "Mobility and mentoring: increasing employment of young people in the European chemical industry" (2017/4).
- Improving and maintaining the EYCN website: www.eycn.eu.
- Being more active on Social Media (Facebook, Twitter, LinkedIn, YouTube Channel).
- Distributing monthly EYCN newsletters to the delegates.
- Editing a flyer/brochure for advertising EYCN aims and activities and a video about the EYCN Delegates Assembly highlighting the activities of the EYCN and its board.
- Organising a video contest for pupils. In particular, "Chemistry Rediscovery 2017 – Playing with chemical reactions" was born and led by the Science Team. In total, more than 100 videos were submitted to the contest, coming from 8 different participant countries. In the end, only the best 15 teams battled for the EYCN award and after a European evaluation, the winner was announced to be the Portuguese team. The quality and originality of all scientific projects exceeded all expectations for this inaugural edition of the contest. All the videos are on the EYCN Facebook page at: www.facebook.com/eycn.eu.

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| Chair: | Alice Soldà (2017 – 2019) |
| Secretary: | Torsten John (2017 – 2019) |
| Members: | 35 delegates, around 35.000 members (estimated) around Europe |
| Countries: | 23 (Austria, Belgium, Cyprus, Czech Republic, Finland, France, Germany, Greece, Ireland, Italy, Former Yugoslav Republic of Macedonia, Netherlands, Poland, Portugal, Romania, Russia, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, United Kingdom) |

- Organising a Photo Contest. The EYCN organised the 2nd edition of Photochimica – Radioactive, connected with the Maria Skłodowska-Curie 150th birth anniversary. The winner was Thomas Binns with his contribution entitled "Tritium, a radioactive isotope of hydrogen consisting of one proton and two neutrons, has a half-life of 12.3 years. When sealed within a vial coated with a radioluminescent phosphor, the light produced due to tritium's beta radiation can be used to embellish keychains, illuminate exit signs, and frighten toy hazmat specialists".
- Connecting undergraduate students through Chemistry. In May 2017, the Treasure Hunt project took place in the Aristotle University of Thessaloniki and it was organised by the ReAcTiON's team, all undergraduate students, in collaboration with the Association of Greek Chemists. Students from all the Departments had the chance to practice and learn the history of Chemistry. The event hosted a total of 126 participants plus 75 volunteers who ran the game.
- Identifying new partners for Scientific Outreach Events. The EYCN is already in contact with the European Federation for Medicinal Chemistry, which is interested in organising events together for the European Researchers Night.
- In 2018, the EYCN is planning to provide assistance to graduated chemists to apply to Marie-Curie fellowship and ERC starting grants. The first seminar will take place during the next ECC7 in Liverpool (UK).

Presence at National and International Events – Career Days

- As previously done during the 6th EuCheMS Congress in Seville, during the ECC7 in Liverpool (2018), the EYCN will have the opportunity to plan various activities and career-oriented programs directed at young members.
- Collaboration with ECEG, FECCIA and industriAll on the 'Mobility and Mentoring' project funded by the European Commission and led by Dr. Andreas Bückner. The EYCN

aligned itself with the project, which aims to encourage young workers mobility in the search for job opportunities across Europe. This is achieved through an online platform that offers users qualified support through a dedicated mentor network, supported by both employees and employers. The Mobility Mentoring Portal (MMP) was available from 1 December 2017. MMP will allow young chemists looking for opportunities to connect with a mentor in the destination country. All mentors received training through a series of workshops, where they were trained to support mentees throughout the process of moving to a different country.

- Collaboration with Cost Action. In 2017, the EYCN promoted an award together with the COST Action CM1407 "NATCHEMDRUGS" 2017 for a young chemist who works in the scientific area of "Challenging organic syntheses inspired by nature – from natural products chemistry to drug discovery".
- Organising soft-skills workshops. This first-time contribution happened during the 5th Conference of Young Chemists of Serbia in Belgrade on September 29 – 30, 2017 where the Chair of the EYCN presented 8 SIMPLE RULES to design a great POSTER PRESENTATION and to minimise the time-consuming process of preparing and presenting an effective poster. The same talk was given in Russia at the NNSTU n.a. R.E. Alekseev.
- Bringing EYCN experience and knowledge to local events organised for young chemists in Europe. In 2017, the EYCN will support an Austrian event in which there will be the first election of the National Board of Austrian Young Chemists Network.
- The EYCN is also planning to organise a satellite event at the ACHEMA 2018, the world forum for chemical engineering and the process industry. The event is organised jointly with the JCF and the JuWiChem in the form of panel discussions and several sessions or similar on the topic of equal chances of chemists and careers in different areas. The aim is to think about future careers for

young chemists in scientific institutions, chemical related industries, public administration, policy related institutions, private institutions, (knowledge and service provider), start-ups or others.

EYCN Meetings and Conferences – Delegates Assembly (DA)

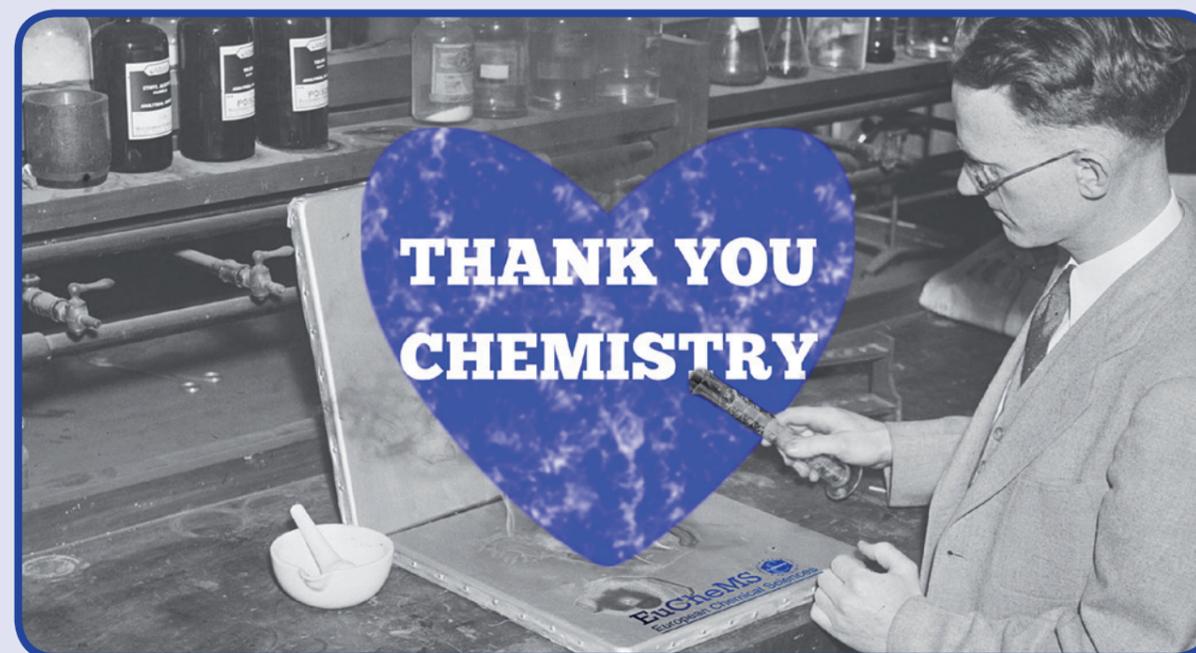
- In 2017, the 12th Delegates Assembly took place in Heraklion (Greece) organised by the Association of Greek Chemists. Recently, the EYCN delegates voted regarding the DA in 2018. It has been decided, by the vote, that the 13th DA will be held in Turin (Italy) and organised by the Young Group of the Italian Chemical Society (SCI).
- European Young Chemists Meeting. After our first young chemists conference in 2016, jointly with the Portuguese Young Chemists Meeting (PYCheM), we plan to run our second European young chemists meeting (EYCheM) in 2019.
- The EYCN contribute to all EuCheMS executive board meetings and during the General Assembly.

International Exchange

- Young Chemists Crossing Borders (YCCB) in collaboration with the American Chemical Society Younger Chemists Committee (ACS-YCC) is the pipeline for 2018. The YCCB exchange programme is designed to give young chemists the opportunity to visit an international conference on the other side of the Atlantic.
- Collaboration with International Young Chemists' Network (IYCN). Recently, our former EYCN board member, Prof. Ilya Vorotynstev was elected as new Chair of IYCN.
- Collaboration with IUPAC.

Awards and Prizes

- European Young Chemist Award (EYCA) will be given in 2018 to recognise the excellent research being carried out by young chemical scientists during the ECC7.
- Poster or general scientific contribution Awards at national and international conferences were given to enhance the visibility of the EYCN, and to support and honour young chemists from all around Europe.
- EYCN travel grants for conferences or similar events and best presentation awards.



EuCheMS is grateful for any individual support given to our work, by promoting and participating in EuCheMS activities, by staying up-to-date with our latest news, by sharing ideas and concerns, or via financial support. Please be aware that individuals are not however able to become direct members of EuCheMS.

Supporting the chemical sciences is a task we all carry out on a daily basis – whether we realise it or not. From the researcher trying to solve energy issues, to the policy-maker who includes scientific advice in decision-making processes, from the chemistry school teacher who shares the wonders of the Periodic Table to students, to the common citizen who subscribes to our newsletters or leafs through a science journal.

We welcome any donations to support the work of EuCheMS in promoting the chemical sciences, and now offer you the chance of becoming a friend of EuCheMS. In order to contribute, click on the donate button on the EuCheMS website to donate € 25 or more.

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