

2020

YEAR BOOK

ACKNOWLEDGEMENT

The Editorial Team is very thankful to all who helped creating and shaping the 2020 Yearbook, in particular to Pilar Goya, EuChemS President (2018-2020).



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European Chemical Society (EuChemS) aisbl
Rue du Trône 62
1050 Brussels, Belgium
+32 2 289 25 67
www.euchems.eu
secretariat@euchems.eu



THE EDITORS

Nineta Hrastelj (*Editor-in-Chief*),
Jelena Lazić (*Managing Editor*),
Laura Jousset

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EDITORIAL



The year 2020 has definitely been marked by the COVID-19 pandemic which has influenced our everyday life and habits, the way we work, how we meet and interact with our family, friends, and colleagues. Inevitably, our great organisation EuChemS had to cope with these hard pandemic times.

Since part of our mission is to highlight the important role Chemistry plays in solving the great challenges of mankind, already at the beginning of April we held the webinar “Chemists fighting COVID-19 - A global conversation”, co-organised with IUPAC, with a very active participation of our European Young Chemists’ Network (EYCN). Throughout the year, we have strived to spread this message, with articles in our newsletters such as “How chemistry is helping in the fight against Coronavirus” by IUPAC President-Elect, Javier García Martínez.

In addition, 2020 has witnessed the persistent effort EuChemS has made to readapt itself to new ways of working, of organising meetings, and we must all feel proud that all our scheduled events and gatherings have taken place (albeit online), thanks to the special involvement and dedication of our Secretariat. The only exception has been our biennial European Chemistry Congress, ECC8, planned for the summer in Lisbon, which had to be postponed to 2022. In turn, this change affected the next ECC9 originally assigned to Dublin in 2022, which has finally been moved to 2024.

All the other events have successfully taken place online: the General Assembly, Annual Meeting of the Professional Networks, Task Group Meetings, several Prize Award ceremonies, and the meetings of the Executive Board, except the first of the year which took place in The Hague.

The year was even more special to EuChemS since we celebrated 50 years of existence. The European Chemical Society, EuChemS, previously the European Association for Chemical and Molecular Sciences, EuChemS, started in Prague as the Federation of European Chemical Societies, FECS on 3rd July 1970. To celebrate our 50th anniversary, we have been engaged in different publications to highlight the important role our organisation has played in shaping the history of European Chemistry. Among them, let me just mention a brochure with testimonials from former and current FECS/EuChemS governance, an article in *Chemistry – A European Journal* entitled “Past, Present and Future of the European Chemical Society (EuChemS)” and a special edition 2020-4 of our newsletter *Chemistry in Europe*, in which former and current members with strategic responsibilities in EuChemS provided an attention-grabbing overview of these 50 years. For the near future, we have started working on a multi-author book on the history of EuChemS under the editorial guidance of our Working Party on the History of Chemistry.

Our 50th anniversary ceremony was planned to

take place at the University of Chemistry and Technology, in Prague, on the 3rd July where it all started 50 years ago. Due to the COVID-19 pandemic, this presential meeting had to be substituted by an online event, which was attended by around 200 people from all over the world. We were delighted to welcome many live speakers: Nobel Laureates Jean-Marie Lehn and Ben Feringa, EuChemS Executive Board members, Presidents of EuChemS Member Societies and Supporting Members. We had the pleasure of receiving live the greetings of the Presidents of IUPAC, International Union of Pure and Applied Chemistry, of FACS, Federation of Asian Chemical Societies, of FLAQ, Federation of Latin American Chemical Societies, and a video from the President of the ACS, American Chemical Society.

As part of our anniversary activities in January, I had the opportunity to interview Wolfgang Fritzsche, one of the founding fathers of FECS, and witness its living memory. Together with Wolfram Koch, who kindly organised it in Frankfurt, we had the chance of listening to a first-hand account of how our organisation started. The full interview was published in our newsletter *Chemistry in Europe* 2020-2.

Continuing with our tradition of collaboration with the European Parliament, on 5th November, we organised jointly with the MEP Maria Spyra the webinar “The Value is on Circularity – Recycling-Reusing-Reinvesting in Critical Raw Materials”, as a follow-up of the ideas behind our 2019 iconic Periodic Table which highlights availability and vulnerability of the chemical elements. The program covered many different aspects, and we welcomed speakers from all the stakeholders, involving academia, research, industry, and from two different DGs of the European Commission, namely DG RTD (Research and Innovation) and DG GROW (Internal Market, Industry, Entrepreneurship and SMEs).

With the aim of further extending our collaboration with other organisations, we have recently joined the platform EurSci4Health, which is involved in promoting affordable and transformational changes in healthcare, by mobilising scientists and citizens. We have also strengthened our links with FACS by contributing one of the welcome articles to their newly established magazine *AsiaChem*.

Following this editorial, further details of the many activities in which EuChemS has been involved in 2020 are presented, and I hope their reading will encourage ever more interest in being part of our organisation and participating in our mission.

Since this year has been my last as President, I would like to make some final remarks. Whatever the achievements of EuChemS during the years of my Presidency, they are the result of a joint endeavour of many, so let me thank all those who have indulged me with their advice, collaboration and friendship: Vice-Presidents David Cole-Hamilton and Floris Rutjes, Treasurer Eckart Rühl, members of the Executive Board and Professional Networks, the Member Societies, in particular the Spanish Royal Society of Chemistry, RSEQ, and the Secretariat in Brussels, with a very special acknowledgement to Nineta Hrastelj.

It has been not only a great honour to serve as President of EuChemS, but also a most gratifying and rewarding experience.

Pilar Goya
President (2018-2020)

GENERAL ASSEMBLY



The General Assembly, the governing body of EuChemS, meets on an annual basis and defines the general policy directions to be taken. It is composed of a representative from each of the Member Societies (usually the President) and Supporting Members.

2020 EuChemS General Assembly

In 2020 EuChemS had organised the first-ever online EuChemS General Assembly meeting which was joined by 90% of all Member Societies. The meeting was chaired by Pilar Goya, EuChemS President, who presented the highlights of the European Chemical Society in the last twelve months. Her presentation included, amongst other, updates on what is new at EuChemS, EuChemS' 50th anniversary initiatives, policy work, projects, communications. Her presentation was followed by updates on the financial matters given by Eckart Rühl, EuChemS Treasurer. The General Assembly elected three members of the EuChemS Executive Board. Congratulations for being elected go to Renáta Oriňáková (her first term as an elected member) and to Christophe Copéret and Artur Silva, who were both re-elected for a second term. Their mandate starts on 1st January 2021.

Pilar Goya, who chaired her last General Assembly in her capacity as the President of EuChemS, gave her farewell speech and was warmly thanked by Floris Rutjes, EuChemS Vice-President, and Nineta Hrastelj, EuChemS Secretary-General, for her work during her mandate (2018-2020).

The EuChemS Secretariat, who prepared this first-ever online EuChemS General Assembly meeting, was happy to see it was made a big success, thanks to the active participation and collaboration of all the participants from the EuChemS Member Societies and Supporting Members during the meeting.

Nineta Hrastelj
Secretary General

**More information about
EuChemS 2020 online
General Assembly is
available [here](#)**

EXECUTIVE BOARD

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

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

The Executive Board also sets Task Groups on particular topics, usually of strategic importance. A Task Group is chaired by a member of the Executive Board and coordinated by the Secretary General.



President
Pilar Goya
Spanish Royal Society of Chemistry



Vice-President
Floris Rutjes
Royal Netherlands Chemical Society



Treasurer
Eckart Rühl
German Bunsen Society for Physical Chemistry

ELECTED MEMBERS



Nicola Armaroli
Italian Chemical Society



Christophe Copéret
Swiss Chemical Society



Ioannis Katsoyiannis
Association of Greek Chemists



Rinaldo Poli
French Chemical Society



Kenneth Ruud
Norwegian Chemical Society



Livia Simon Sarkadi
Hungarian Chemical Society



Artur Silva
Portuguese Chemical Society

APPOINTED MEMBERS



Marco Arlorio
Italian Chemical Society



Francisco Javier Pérez Trujillo
National Association of Chemists and Chemical Engineers of Spain



Wolfram Koch
German Chemical Society



Nausicaa Orlandi
Italian National Board of Chartered Chemists and Physicists



Robert Parker
Royal Society of Chemistry



Anna Trzeciak
Polish Chemical Society

EXECUTIVE BOARD MEETINGS IN 2020



17-18 February
The Hague
(The Netherlands)



15 April
online
extraordinary meeting



8 June
online
extraordinary meeting



2 July
online



15 October
online

SECRETARIAT

The EuChemS Secretariat led by the Secretary General does day-to-day management of the association.



Nineta Hrastelj
Secretary General (since 2011)



Laura Jousset
Science Communication and Policy Officer (since December 2019)



Jelena Lazić
Science Communication and Policy Officer (since April 2020)

POLICY INITIATIVES

EuChemS aims to raise awareness of the vital role Chemistry plays in providing solutions to the many societal challenges that humankind faces. In parallel, EuChemS works diligently to keep its scientific community up to date with the latest policy developments impacting the chemical sciences, and also to enable networking and knowledge exchanges between scientists and policymakers.

In 2020, Horizon Europe was intensively debated. In addition to participating at various science-policy conferences with MEPs and EC members, EuChemS made contribution through different channels such as the EurSci4Health platform and the Initiative for Science in Europe (ISE). Several events and initiatives related to COVID-19 were part of our agenda and have resulted in newly established collaborations. EuChemS actively advocated on behalf of the Chemistry community by responding to public consultations and calls for feedback.

RESEARCH & INNOVATION

#EUvsVirus Hackathon, Matchathon and Launchathon



The **#EUvsVirus** pan-European series of online events took place between April and December 2020. In total, 21 000 participants from various sectors across Europe met virtually at the Hackathon on 22-24 April 2020 to seek solutions to address the COVID-19 pandemic crisis and its related-challenges.

The European Chemical Society registered as a civil society and a partner to assist the teams and answer their chemistry-related questions. Six categories of COVID-19 related issues were addressed during this contest: health and life, business continuity, remote working and education, social and political cohesion, digital finance and 'other' – an open category

for other challenges. The participants had the opportunity to meet online with many civil societies, universities, businesses, and others to tackle these challenges. Overall, 2160 proposals were submitted and 120 of them were announced as **winners** during the Award Ceremony.

During the Matchathon on 22-25 May 2020, winning teams had an opportunity to connect with the public authorities (including hospitals), academia, and research institutions. They were able to discuss their needs and secure deals with partners, to have their innovative ideas developed and commercialised.

Finally, at the Launchathon on 10-11 December 2020, some of the winners that were selected for their impactful solutions and products were already market ready **start-ups**, and the Launchathon helped them to get in touch with corporate partners, public procurers, and investors.

European Chemical Society (EuChemS) and the European Young Chemists' Network (**EYCN**) are pleased to have taken an active part in the **#EUvsVirus** journey and have promoted these events on social media.



Badges from the **#EUvsVirus** Hackathon

European Research and Innovation Days



Based on the work of EuChemS as a unified voice representing national societies at the European level, the European Young Chemists' Network (EYCN) has been striving to establish a platform which would provide the opportunity for early-career chemists to be involved and contribute to the process from the perspective of their expertise and outreach. In 2020, the EYCN has achieved great visibility through collaboration with the European Commission to participate at

the annual flagship event **European Research and Innovation Days** which took place online on 22-24 September 2020. This event brought together policymakers, researchers, entrepreneurs, and citizens to debate and shape the future of research and innovation in Europe and beyond thought-provoking panels, and match-making opportunities.



Dr Victor Mougel, former EYCN
Networks Team Leader (2017-2019)

Dr Victor Mougel and Dr Jovana V. Milic represented the EYCN as young experts in “Sustainability by Design – Embedding sustainability criteria throughout life cycle of products and processes” (HUB 2: European Green Deal). During this session, young scientists challenged senior experts on



Dr Jovana Milic, current EYCN
Networks Team Leader (2019-2021)

sustainable-by-design approaches in different fields, contributed to the discussion and were given an opportunity to shape together a safe, carbon-neutral and resource efficient industrial eco-system. The full [recording of the session](#) is available online.

CIRCULAR ECONOMY, CLIMATE, ENERGY

‘The value is on circularity – Recycling-reusing-reinvesting on critical raw materials’



This online webinar was jointly organised by the European Chemical Society (EuChemS) and Maria Spyraiki, Member of the European Parliament. The event was held online on

5th November and [the whole workshop](#) is available online on the EuChemS YouTube channel.

The objectives of the workshop were manifold. First, to open a discussion on critical raw materials for the EU economy involving all stakeholders. Then, to present and include the scientific base and to foster stronger policies for the protection of endangered elements in the EU. Also, during the workshop, European Commission's Action Plan on Critical Raw Materials and a foresight study were presented, and the Critical Raw Materials were also discussed in connection to Horizon Europe. Finally, the need to widen educational efforts at all levels of society was pointed out, including raising awareness on the limits of material resources, and the need to implement a circular economy.

The detailed [programme and the list of speakers](#) is available, together with the context and the driving ideas behind this policy workshop.

European Climate Pact

The European Chemical Society (EuChemS) has answered to the Public Consultation on the European Climate Pact, within the European Green Deal. The purpose of the Climate Pact is to prevent any regression regarding the European Union's commitment and to give directions, transparency, and predictability regarding the [European Green Deal](#). EU's roadmap for making economy sustainable, and making Europe become the first neutral continent by 2050.

In its answer to this public consultation, EuChemS provides its views on climate change and the current environmental crisis, and on how the EU should support efforts concerning climate actions. You can [read the EuChemS response](#).

The European Chemical Society would like to thank the European Young Chemists' Network (EYCN) for their collaboration in answering the Public Consultation on the European Climate Pact.

OPEN ACCESS

Open Science Policy Platform

The Open Science Policy Platform ([OSPP](#)) is an Advisory Group representing European research and innovation stakeholders with the mandate to provide advice on the development and implementation of Open Science (OS) policies in Europe. On 5th February 2020, the last meeting of the OSPP was held in Brussels. Wolfram Koch attended the OSPP meeting as a EuChemS representative.

The OSPP discussed the creation of a “registry of pilots and implementations to inspire best practices and new assessment mechanisms for Open Science.” The creation of this registry is a call for action on pilots and implementations of responsible metrics to inspire best practices and new assessment mechanisms for Open Science. Such a shift would enhance open knowledge practices in scholarly research. Numerous benefits of this registry can be foreseen: the promotion of an ethical research conducted with integrity and more transparency, recognition of diverse outputs and contributors, easy access to research findings (e.g. data, publications, methods), as well as an active public engagement. Last, but not least, the first version of the final report of this mandate was drafted.



Participants at the Open Science Policy Platform (OSPP) meeting

Open Access has been a topic in the focus of EuChemS for many years, so in 2018 a [Task Group ‘Open Access’](#) chaired by Executive Board member Kenneth Ruud was set up.

HEALTH AND FOOD SAFETY

EurSci4Health

EuChemS has been invited to collaborate on the [European Science for Health](#) (EurSci4Health) platform. This is a platform to promote innovative research and technologies, enabling affordable and transformational changes in healthcare, by mobilising scientists and citizens. The objectives are to advise scientific policies for health, within European institutions, in order to facilitate the integrated development, regulation and use of diagnostics, therapeutics and other health technologies. The initiative is run by EUFEPS (European Federation for Pharmaceutical Sciences).



On 16th October 2020, a webinar took place (closed session) and MEPs, high-level EC officials, and politicians from countries that hold Presidency at the Council of the EU in 2020 and 2021 (Germany, Portugal, Slovenia) were invited. The outcomes will be shared as input to Horizon Europe. At this event, Pilar Goya moderated a session on “Innovative Pharmaceuticals and Manufacturing”.

EFSA

EuChemS is an official accredited stakeholder of the European Food Safety Authority (EFSA). EuChemS Science Communication and Policy Officers follow closely the public consultations and publish them in the monthly EuChemS Newsletter [Brussels News Updates](#).



This year, focus was on improving the interaction between EFSA and the Stakeholder Discussion Group on Emerging Risks (StaDG-ER) and a

series of digital events is planned until June 2021. These events aim at evolving the way EFSA engages with stakeholders and at further aligning the process to the requirements of the Transparency Regulation and ambitions of the EFSA Strategy 2027. Many discussions also took place in connection to the COVID-19 impact on food safety and the presence of COVID-19 in animals.

EuChemS representatives regularly attend the EFSA meetings and keep an eye on all the updates which concern Chemistry and chemists.

Initiative for Science in Europe (ISE)

EuChemS became an observer of the ISE, a platform of European Learned Societies and Research Organisations which aims to rally and support the European scientific community operating within different disciplines and across sectors. Like EuChemS, its goal is to involve researchers in the design and implementation of European science policies, and to advocate strong scientific advice in European policy making.



EuChemS is very pleased to join several of their Task Forces on various topics. These topics include aspects of Horizon Europe beyond the budget, related to widening participation and on the balance between fundamental and applied research with an interdisciplinary perspective. A position paper is planned to come out in this respect. Furthermore, organising an expert workshop on rewarding Plan S/Open Science practices is planned, where stakeholders from different communities will be invited to share their position and idea, and to hopefully find common grounds. Finally, EuChemS will take part in the Task Force dealing with researchers' careers which will, among others, focus on transversal skills and on institutional responsibility to manage expectations.



CHEMICALS AND CHEMICAL SAFETY

ECHA

EuChemS is an official accredited stakeholder of the European Chemicals Agency (ECHA). Mr Andrea Comini is a EuChemS representative who is on the ECHA Committee for Risk Assessment ([RAC](#)). RAC is responsible for preparing scientific opinions related to the risks of chemicals to human health and the environment for the following processes: applications for authorisation, proposals for restrictions, proposals for harmonised classification and labelling, occupational exposure limits (OELs).



This year, RAC adopted the opinion concerning the limitation of skin sensitising substances in finished articles made of fabric, leather, hide and fur, placed on the market for the first time. They reached a final opinion on microplastics restriction and supported restricting the use of intentionally added microplastics in EU/EEA products, in concentrations of more than 0.01% weight. The RAC discussed the cumulative Cadmium exposure from all sources (inhalation, food, hand to mouth, dermal) and protection of workers.

Their public consultations are regularly published in the monthly EuChemS Newsletter [Brussels News Updates](#).

FOSTERING EUROPEAN CHEMISTRY

EUCHEMS STATEMENTS

Statement on inclusion and diversity in the chemical sciences

On 15th June 2020, the European Chemical Society endorsed the Statement on inclusion and diversity in the chemical sciences of the Royal Society of Chemistry (RSC). You can read the statement [here](#).

Inclusion and diversity have been vital topics in EuChemS for years, and in 2019 a Task Group chaired by Pilar Goya (first EuChemS female President) has been established.

Chemistry excellence in a post-Brexit time

The statement of EuChemS President Pilar Goya on how Chemistry research is affected by Brexit made its way to the [Voice Newsletter](#) of the Royal Society of Chemistry (RSC). The statement is based on the EuChemS Position Paper [Research and Education Without Borders After Brexit](#) released in 2017.

The statement reads:
“Research and industrial competitiveness across the EU greatly benefit from the input of UK researchers and *vice versa*... As negotiations proceed to determine the relationship between the EU and the UK, we 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.”

Past, Present and Future of the European Chemical Society (EuChemS)

In July 2020, *Chemistry – A European Journal* published the Guest Editorial “Past, Present and Future of the European Chemical Society (EuChemS)”. In this contribution, EuChemS President Pilar Goya, and EuChemS Vice-President Floris Rutjes, look back at 50 years across Europe and provide their views on the

future of the European Chemical Society. A table which summarises the milestones between 1970 and 2020 is also included in the Guest Editorial, from its foundation under the name of FECS to this year’s 50th anniversary celebration.

EuChemS endorsed the Intergovernmental Panel for Chemicals and Waste Management (IPCWM)

EuChemS was invited by the RSC to join the initiative ‘An Independent United Nations Intergovernmental Panel for Chemicals and Waste Management (IPCWM)’, a topic of international importance not only for the academic and scientific community, but for the entire planet. A position paper was shared with the [UN SAICM \(Strategic Approach to International Chemicals Management\) virtual working group 2](#) during the open window of engagement.

In the words of the Policy Position:
“As chemicals are a major factor in both climate change and biodiversity, as well as pollution control, an IPCWM should be established to enable maximum collaboration with both the Intergovernmental Panel on Climate Change (IPCC) and Intergovernmental Science-Policy Platform on Biodiversity and Ecosystems Services (IPBES).”

The role of chemists and chemical engineers in a sustainable world

In January 2020, *Chemistry – A European Journal* published [“The Role of Chemists and Chemical Engineers in a Sustainable World”](#). This contribution in *Science Voices* (opinion articles written by scientists around the world) has been written by EuChemS Past President David Cole-Hamilton. In this article, the United Nations 17 Sustainable Development Goals (SDGs) are outlined and highlighted to show where chemists will fit into the puzzle of trying to

reshape and reform the environment and industrial practices so that goals can be reached. In this article, [EuChemS Periodic Table](#) highlighting element availability and vulnerability towards dispersion is featured and used in the context of reflecting on the way we make and use consumer items.

EVENTS

Global Women's Breakfast

On 12th February 2020, one day after the 5th International Day of Women and Girls in Science, EuChemS President Pilar Goya participated in the [Global Women's Breakfast](#) in Murcia (Spain). In 2020, the Global Breakfast took place in more than 240 locations around the world.



Participants at the Global Women's Breakfast 2020

This global networking event was designed by the International Union of Pure and Applied Chemistry ([IUPAC](#)) to empower women in Chemistry, and to celebrate women in sciences, to promote full and equal participation of women in science, and to encourage girls in STEM career path.

SURVEY

3rd Employment Survey for European Chemists (ESEC3)



[Employment Survey for European Chemists](#)

was open for all chemists and chemical engineers in Europe. This survey investigated the current education and employment situation of chemists and chemical engineers across Europe. Understanding job market needs, the challenges and opportunities facing chemists, and what drives people to study and work in

their respective fields will prove valuable to better understand the current landscape. In turn, it will allow those directly impacted, as well as universities, institutions, companies, and policymakers to focus their efforts on facilitating or improving certain measures whilst encouraging those that are so far successful. Participation in this Europe-wide survey will help build a broad yet precise picture of the employment and salary situation of chemists and possibly reveal other cross-cutting issues.

The results of the survey will be published in 2021 in *Chemistry – A European Journal*, similar to the results of the previous two ESEC surveys, and they will be available to the scientific public.

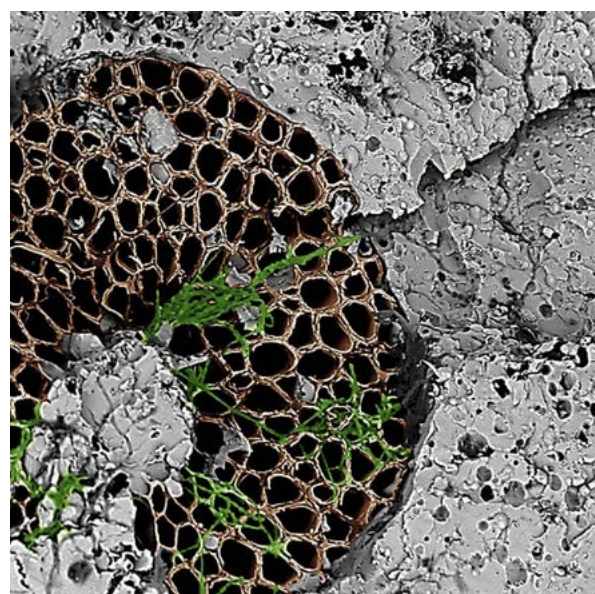
ESEC3 has been jointly prepared by EuChemS, the European Young Chemists' Network ([EYCN](#)), the European Chemistry Thematic Network Association ([ECTN](#)) and part of it with the American Chemical Society ([ACS](#)). It is supported by the European Federation of Managerial Staff in the Chemical and Allied Industries ([FECCIA](#)) and the European Chemical Industry Council ([Cefic](#)).

CONTEST

Photochimica 2020

This year, the third edition photography contest *Photochimica* took place and was organised by the EYCN together with the Royal Society of Chemistry. This competition was based on the 50th anniversary of the Earth Day, aiming at increasing the visibility of sustainable development and the role of chemistry among European high schools. It was widely advertised and received positive feedback from a large community of chemists. On Earth Day (22nd April 2020), *Photochimica* 2020 competition came to an end and winners were announced.

The best photo winner is Philipp Gotico and his photograph is entitled **Out of the Wasteland**.



Did you know that it already takes more than one planet to absorb all our current solid wastes? There are existing efforts to reduce and recycle them, but they are often faced with the limitation of weakened material properties. Inspired by how plant roots can reinforce soil, we imagine that combining both plastic and agricultural wastes would result to better

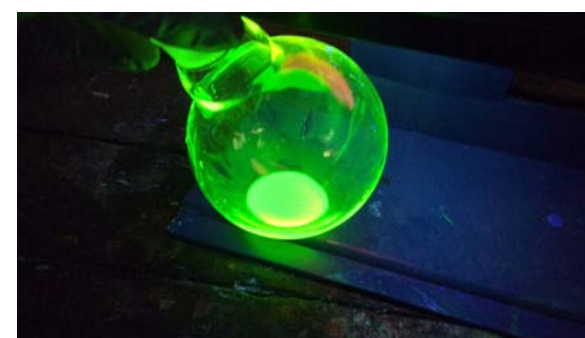
recycled materials. The scanning electron microscopy image shows how coconut fibers interact with blends of plastic and Styrofoam wastes, raw from the dumpsite! These fiber-reinforced plastic composites can act as brick road alternatives, paving the way to sustainable future.

Best photo runner-up is Melanie Nutter with **Glow and behold**.



Could sunlight be the answer to our energy demands? Highly fluorescent organic compounds can have the potential to act as photocatalysts – using light to initiate and drive a chemical reaction. With interest in chemical processes shifting towards environmental sustainability, photochemistry is an attractive option as there is no need to heat the reaction and many organophotocatalysts absorb solar irradiation, a resource that is abundantly available in nature!

Most popular photo winner is Kyangzi Calderon Cerquera with **Green lantern**.



Here, Kyangzi Calderon Cerquera shows a Bodipy derivative solution under UV radiation. These derivatives have high fluorescent quantum yields around 1. Bodipy compounds could work as an antenna fragment in materials for solar cells.

E-LEARNING

Good Chemistry - Methodological, Ethical, and Social Implications

The European Chemical Society opened the registration for its updated online Moodle course “Good Chemistry – Methodological, Ethical, and Social Implications”. The 2020 edition of the course is now available online to individuals on an organised open-call basis, and the first copies of the entire course have been transferred to universities who made this request.



This e-course aims to contribute to an integral education of students as important future

enactors of progress and influential decision-makers in academia, industry, and public. Its content relates to science conduct, logic and theory of science, experimentation, professional and public communication of science, risk and uncertainty, sustainability, and social impact of chemical activity.

This educational material enhances competences and skills in basic research methodology and its philosophical foundations. It also points out thought-provoking facts about overseeing, understanding, evaluating, and assessing contemporary ethical and social issues arising from scientific and technological activity and progress.

Signing into the course
is possible online:

www.elearning-euchems.eu/



GLOBAL COLLABORATIONS

Summary of EuChemS activities in the final report of the IYPT2019

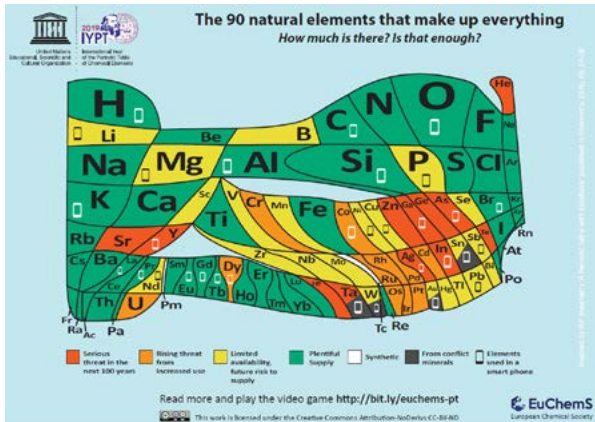
The [Final Report](#) of the International Year of the Periodic Table of Chemical Elements 2019 is now available. It gathers plans and initiatives organised throughout the year-long celebration.

As an active IYPT19 supporter, a summary of EuChemS initiatives and activities are provided in this report, including the development of [EuChemS Periodic Table of Elements Scarcity](#). According to the Final Report of IYPT19, EuChemS and its Member Societies coordinated hundreds of activities and events in 2019, and these actions have reached millions of people through media coverage.

As indicated in the Final Report of IYPT19, EuChemS Periodic Table of Element Scarcity was probably the most successful EuChemS initiative for the IYPT19 designed to raise awareness. This Periodic Table was widely disseminated and is available in 32 different languages, which proves that our mission has been accomplished.

The IYPT19 final report emphasises EuChemS initiatives to promote Women in Science. In 2019, the remarkable book [Women in their Element](#) was published and the two-day international symposium on [Setting their Table: Women and the Periodic Table of Elements](#) took place in Murcia, Spain.

The Final Report of IYPT19 does not overlook the numerous activities conducted by the young chemists of EuChemS. The European Young Chemists' Network ([EYCN](#)) organised the video contest 'In Your Element', which met a massive success: more than 250 videos were submitted for the second edition of [Chemistry Rediscovered](#). The EYCN also promoted EuChemS video game, [Elemental Escapades – A Periodic Table adventure](#), released in January 2019 and coordinated various events, including EYCN's [Pint of Chemistry 2019](#).

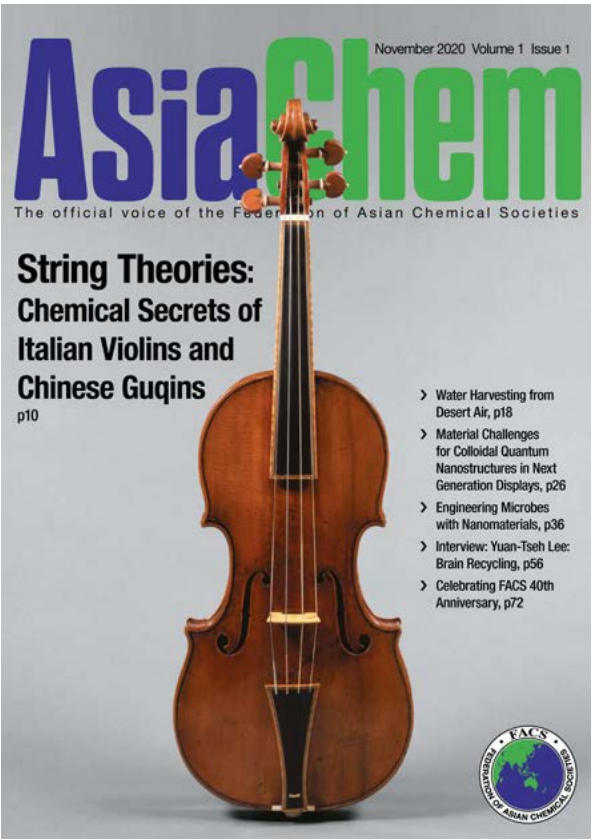


EuChemS Periodic Table of Element Scarcity

EuChemS featured in the first issue of AsiaChem

EuChemS had the honour to contribute to the [inaugural issue of AsiaChem](#) with an article on the long-standing collaboration of the European Chemical Society and the Federation of Asian Chemical Societies ([FACS](#)). In this contribution, EuChemS President Pilar Goya, EuChemS Vice-President Floris Rutjes and EuChemS Past-President David Cole-Hamilton, congratulated FACS on the 40th anniversary since its foundation and on the introduction of this new Chemistry magazine.

The Editor-in-Chief of *AsiaChem* is Ehud Keinan, President of the Israel Chemical Society, former member of the EuChemS Executive Board and the awardee of the 2019 EuChemS Award for Service.



EuChemS congratulates FACS on its 40th Anniversary

<https://doi.org/10.1002/asac.0004>

THE EUROPEAN CHEMICAL SOCIETY (EuChemS) offers its heartfelt congratulations to the Federation of Asian Chemical Societies (FACS) on the 40th Anniversary of its foundation. We also congratulate FACS on the introduction of this new magazine, *AsiaChem*, which promises to be a fascinating addition to general chemistry magazines.

EuChemS has been through a number of metamorphoses since its foundation as the Federation of European Chemical Societies (FECES) in 1970, its transition to the European Association for Chemical and Molecular Sciences (EuChAMS) in 1995 to its current European Chemical Society (EuChemS) in 2018. However, throughout that time, we have sought to promote chemistry in Europe and coordinate the work of the national chemical societies in geographical Europe, just as FACS has done for Asia. Because of their particular geography, three countries, Israel, the Russian Federation and Turkey are represented in both EuChemS and FACS so it is a pleasure that they can act as bridges between our organisations. Indeed, Professor Ehud Keinan, President of the Israel Chemical Society, has been an Executive Board member of both organisations and when the 5th European Chemistry Congress was held in Istanbul, it was a delight to hold a joint meeting between the Executive Boards of the two organisations in order to identify areas of common purpose. We would be very enthusiastic about building upon these initial discussions.

The main difference between our two organisations is that the European Parliament, of which there is no equivalent in Asia, has representation from about 1% of our members. This means that we provide advice to the Parliament, organise Parliamentary Workshops, respond to consultations and position papers and try to make sure that chemistry is considered whenever new legislation is being planned or implemented. Areas where we have been prominent in recent years have included ensuring that the European Commission has appropriate structures for scientific advice, supporting the European Agenda on Climate change, especially with respect to the Paris agreement, raising awareness concerning endangered elements and pushing for funding of Employability. We would be interested in exploring the involvement of FACS in our next Employment Survey for Chemists. The European Commission also funds research at the highest level so we try to ensure that new initiatives have the necessary chemistry built in and that chemistry in Europe is properly funded. We have been particularly concerned about issues ranging from problems relating to antimicrobial resistance and diseases of ageing, such as Parkinson's disease and dementia, and to materials for clean energy conversion, storage and use. We have been prominent in pushing the agenda on solar-driven chemistry which will be essential if climate targets are to be reached. EuChemS has signed a joint agreement with chemical societies from Europe, FACS and the ACS to collaborate on the UN Sustainable Development Goals.

However, our remit and membership are much wider than just relating to the European Parliament. We have worked to oppose the use of chemical weapons, especially through articles and press releases, including the Seville Declaration deploring the use of chlorine in warfare, which was signed by 40 Presidents of National Societies or their representatives. We have also supported Ehud Keinan in his public attempts to persuade the Israeli government to ratify the Chemical Weapons Convention, which it has already signed.

Realising that many chemists entering research fields have had no training in the ethics of what they are doing at home, in school or in religious institutions, we have recently released an on-line course entitled 'Good Chemistry - Methodological, Ethical, and Social Implications'. Designed by Jan Mellich, originally from Germany but now working in Taiwan, the course consists of sixteen 45 minute lectures supported by case studies, assignments, quizzes and assessments and covers all areas of how to do things right, what might go wrong and how we must be responsible for our planet. This course, which is aimed at first year undergraduates, masters or first year PhD students is available to all universities within our member societies and we would be happy to discuss licensing arrangements with Asian Universities.

It was a pleasure to work with FACS under the auspices of IUPAC during the International year of the Periodic Table in 2019. The opening ceremony was held in Europe (Paris) and the closing in Asia (Lipari). One of EuChemS's contributions was a new version of the Periodic Table highlighting Element availability and vulnerability as well as which elements come from conflict minerals and which are in smartphones. The periodic table, which is available in >30 different languages, including Asian ones, places a sharp focus on our vulnerability to dispersing elements we all take for granted so they may not be available in the future.

We very much look forward to developing further ties with FACS in the coming years.

Floris Rutjes,
Vice President and
President Elect

Pilar Goya-Luiza,
President

David Cole-Hamilton
Past President

AsiaChem

1 November 2020

SCIENCE COMMUNICATION

The COVID-19 pandemic brought unprecedented and unexpected challenges to public health, food systems and the world of work. For all these sectors, digitalisation became a necessity to comply with the sanitation regulation, thus directly affecting communications and further enhancing the use of the digital environment. EuChemS was no exception. As we aim to nurture a platform for scientific discussion between politicians and chemists, we had to rethink the way we communicate science in order to maintain and improve these interactions.

We were already familiar with digital tools: we have been offering online courses on Moodle, reaching out to policymakers and scientists *via* our social media channels, informing our community on the latest developments of research and policy decisions in Europe by publishing two newsletters, and constantly working on innovative ways to share knowledge on specific topics – the EuChemS Periodic Table was a successful effort to raise environmental awareness. This year, we continued to diversify our content by implementing a new [YouTube channel](#) and improving the user experience on our website, as well as on all the platforms mentioned above. This ongoing process was paired with the refreshing of our online editorial charter.

Nonetheless, publications are one of the many tools that enable EuChemS to communicate further and more effectively: events play a key role in science communication – whether they are conferences, workshops, or congresses, this is where science and policy directly meet. Organising such events is essential to provide scientific feedback and answers some of the most pressing challenges we face. They constitute a platform for discussion and debates which is open to citizens. Postponement of some physical events had to be taken into

consideration, but cancellation was never an option. EuChemS invested efforts and training in digital platforms to move its events online and keep its activities accessible to as many as possible. Not only did we organise online events, but we also had the opportunity to participate in interactive sessions set up by other stakeholders in the field of science policy and Chemistry.

As digital technologies are becoming more and more present in our everyday life, we cannot turn our back to them. This is why it has become crucial to fully achieve this digital transition internally in order to maximise EuChemS outreach: science communication is the result of an effective balance between internal and external communication strategies. Along with our public events and actions, digitalisation is gradually taking roots at the core of EuChemS, offering us – the Executive Board members, the Secretariat, the Professional Networks and the Member Societies – a possibility to meet more regularly online and allowing us to maintain constant open conversation about our work.

EuChemS takes part in today's solution to major societal challenges by informing chemists and EU policymakers about the activities of one another and by providing expert and scientific advice to politicians to ensure EU policies are evidence-based. To achieve this mission, we are constantly examining and developing new ideas to reach larger audiences and we invite you all to join us and get involved in EuChemS activities.

Laura Jousset

Science Communication and Policy Officer



**New YouTube
channel [HERE](#)**

AWARDS

European Chemistry Gold Medal 2020

The 2020 European Chemistry Gold Medal will be awarded to [Professor Michele Parrinello](#) for exceptional achievements in the field of chemistry in Europe. Professor Parrinello will be presented with the Gold Medal during the 8th EuChemS Chemistry Congress (ECC8) in Lisbon, Portugal. In addition, he will also give a plenary lecture during the ECC8.



EuChemS Lecture Award 2019

The 2019 EuChemS Lecture Award will be awarded to [Dr. David Portehault](#) in recognition of his major achievements as a junior scientist working in chemistry in a country with a EuChemS Member Organisation. Usually, the winner gets the opportunity to give a lecture at the next European Chemistry Congress (ECC) or at a conference of a EuChemS Professional Network (PN). However, due to the COVID-19 pandemic and the postponement of the 8th European Chemistry Congress (ECC8) to 2022, the event will take place online in 2021.



EuChemS Award for Service 2019

The 2019 EuChemS Award for Service will be awarded to [Professor Ehud Keinan](#) in recognition of his outstanding commitment and hard work in fostering chemistry in Europe, along with the activities and goals of EuChemS. Throughout his exceptional years of work for EuChemS as an Executive Board member from 2011 to 2015, he successfully managed to broaden and increase the impact of EuChemS' activities and to enhance the profile of Chemistry and EuChemS. Professor Keinan will be presented the Award at the 8th EuChemS Chemistry Congress in Lisbon, Portugal.



EuChemS Historical Landmarks Awards 2019

The submissions for the EuChemS Historical Landmarks Awards 2019 were received last year, but the decision by the EuChemS Executive Board was made in 2020.

At the **European Level**, the site that will be awarded are the [Mines of Almadén](#), in recognition of the role they played in the history of Chemistry and European sense of belonging between people and ideas. Almadén is located in the province of Ciudad Real (Castilla-La Mancha region) in Spain, and is a typical example of historic mining site producing mercury: the greatest mercury production volume in history has been achieved in these mines.

At the **Regional Level**, the site that will be awarded is the [Edessa Cannabis Factory Museum](#), in recognition of its role in fostering

a deep link between Chemistry and local cultural heritage. The Edessa Cannabis Factory Museum is located in the center of Edessa, a city in northern Greece (Central Macedonia region of Greece) and the capital of the Pella regional unit. It was the largest of the four cannabis stores in Greece in production and facilities.

The ceremony of unveiling the plaques for these two sites is foreseen for 2021. Also, in 2021, a special Historical Landmarks Award will go to the University of Chemistry and Technology in Prague (Czechia), where the Federation of European Chemical Societies (FECS) was established in 1970. The EuChemS Historical Landmark plaque in Prague is planned to be unveiled on 3rd July 2021.



European Young Chemists' Award (EYCA) 2020

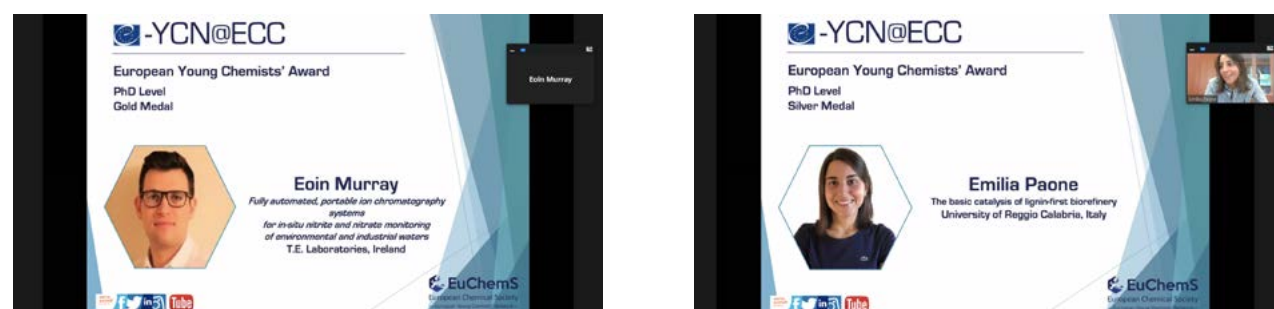
The European Young Chemists' Award is intended to showcase and recognise the excellent research being carried out by young scientists working in the chemical sciences. There are two levels of this award: Early Career Researcher and PhD.

Usually, the final evaluation of the presentations of research results takes place at the European Chemistry Congress (ECC). However, this year, due to the COVID-19 pandemic and the postponement of the 8th European Chemistry Congress (ECC8) to 2022, the event took place online on 25-26 August 2020 during the **e-YN@ECC**. This webinar included Grant Writing, Career, ERC and Science Communication workshops and the presentations by the EYCA finalists.

After unanimous endorsement from the European Award Committee for the EuChemS-EYCN Award Committee (EYCAC), 12 finalists presented their own research results in front of the jury and the audience. Two **winners** were selected at each level.



- At the Early Career Researcher Level, the EYCA 2020 Gold Medal was awarded to Maria Chiara Sportelli (National Research Council/Institute for Photonics and Nanotechnologies – CNR-IFN, Italy) and the Silver Medal to Grégory Chatel (University of Savoie Mont Blanc, France).



- At the PhD Level, the Gold Medal was awarded to Eoin Murray (T.E. Laboratories, Ireland) and the Silver Medal to Emilia Paone (University of Reggio Calabria, Italy).

EYCA 2020 has been sponsored by the European Chemical Society (EuChemS), the Italian Chemical Society (SCI) and the Italian National Board of Chartered Chemists and Physicists (FNCF).

EuChemS Awards – Information Session

EuChemS organised an Information Session on its Awards on 24th November 2020. During this online event, the nomination procedures and selection process were summed up and explained down to the last detail in carefully prepared videos.

Videos for the [European Chemistry Gold Medal](#), the [EuChemS Lecture Award](#), the [EuChemS Award for Service](#) and the [EuChemS Historical Landmarks Award](#) and available on the EuChemS YouTube channel.



EVENTS

Transition to teleconferencing

As the EuChemS President mentioned in the Editorial, the COVID-19 pandemic was the reason for postponing some EuChemS events and conferences, like the 8th EuChemS Chemistry Congress (ECC8) which was moved to 2022.

However, a lot of other EuChemS events this year were merely adjusted to the ways of teleconferencing and were turned into online discussions. From the external point of view, many events were not affected (General Assembly and Executive Board meetings took place online), and their outcome was successful because all the necessary annual decisions could be made. Internally, efforts were made in creating an online voting system, and in the end all voting worked perfectly well.

There are other upsides and additional possibilities when organising/attending virtual events, and they were brought to our attention

with the increasing number of online events. For example, although physically separated, members of EuChemS Professional Networks joined the annual meeting which took place in September 2020, and to our delight this meeting accommodated many more people than a physical meeting would. Also, this was the first meeting which had at least one representative from each Professional Network. Because of the success of this meeting, EuChemS is considering introducing this practice of virtual meetings also in the future.

Although these events were not something chemists in Europe were looking forward to, EuChemS Secretariat was making continual efforts throughout 2020 to ease this transition. Looking back to the many events that took place this year, EuChemS has indeed tackled the digital transition.

EuChemS turned 50!

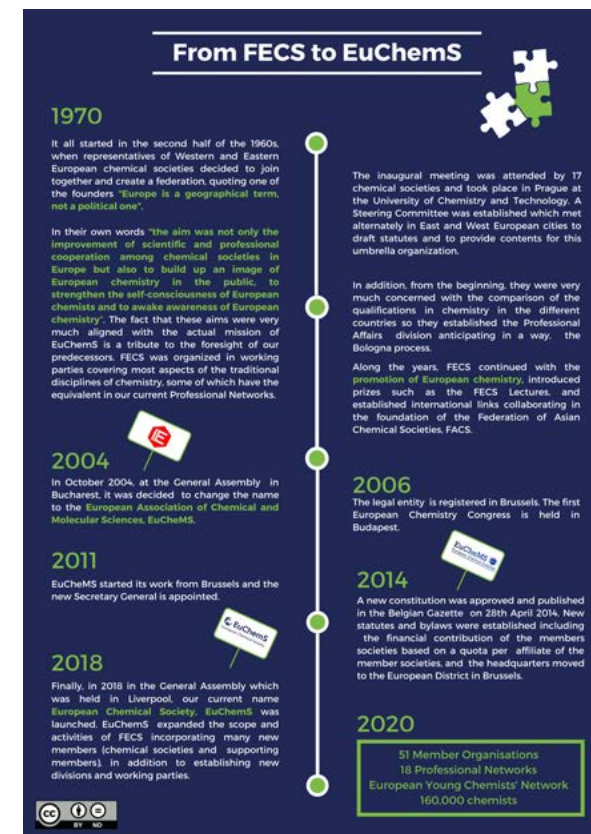
Our golden 50th anniversary was a project which has interconnected many people across Europe and beyond and resulted in several publications. Every initiative and action related to the 50th anniversary was carefully planned by the '50 years of EuChemS' Task Group chaired by Pilar Goya.

First, a new EuChemS logo was created and used throughout the year:

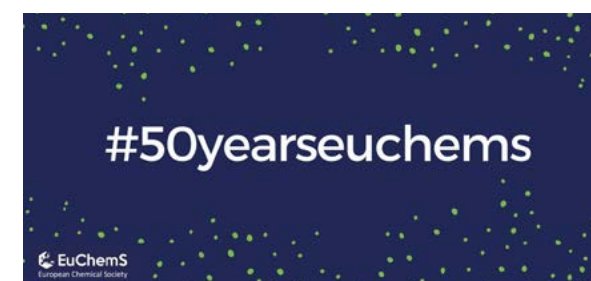


Then, a [brochure](#) illustrating 50 years of Chemistry in Europe was released. From FECS, to EuChemS, and now EuChemS, the European Chemical Society evolved over time and with you.

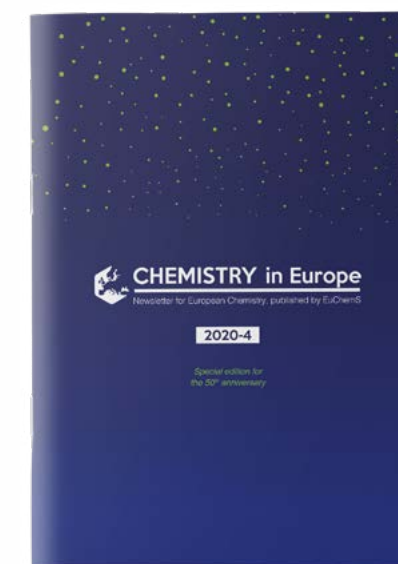
After that, a leaflet "[From FECS to EuChemS](#)" was published. In it, a summary of the important milestones from the first 50 years was presented.



Next was the most prominent event which marked our anniversary: an online event on 3rd July 2020. This paramount event was originally planned in Prague, where it would have been an echo of the foundation of FECS in 1970, but it had to be adapted to the (safe) online format. Another transition to a digital meeting, which enabled more people to join us online and share their wonderful wishes by posting #50yeareuchems hashtag on social media channels. The rich, diverse, and entertaining programme has made this online celebration a memorable event. Enjoy watching the whole celebration [here!](#)



Finally, a special edition of the Chemistry in Europe newsletter was published, and this issue was entirely dedicated to the 50th anniversary of EuChemS. In this special edition, we have highlighted many milestones and unforgettable moments that brought the European Chemical Society where it is today. Furthermore, we have collected memories and assembled stories from the people who shaped the path from 1970 onward. You can [read the CiE 2020-4](#).



We take this opportunity to thank our community, our members, and our readers for the last half century of excellent scientific cooperation and enhancement of Chemistry initiatives across the European continent and beyond.

EuChemS Recognised Events

EuChemS offers an official recognition scheme to its Member Societies, Professional Networks, and to non-member organisations. This allows high-quality events and conferences to be widely shared with our networks across Europe. Since 2013, EuChemS has recognised more than 210 events.

RECOGNISED EVENTS IN 2020

Chemistry Conference for Young Scientists 2020 (ChemCYS 2020)

18/02/2020 - 20/02/2020 • Blankenberge, Belgium

EuChemS 50th anniversary celebration

03/07/2020 • online

Green Chemistry Postgraduate Summer School (SSGC)

05/07/2020 - 10/07/2020 • Venice, Italy

18th Ružička days - «Today science - tomorrow industry»

15/09/2020 • Vukovar, Croatia

Austrian Young Chemists Summit - YC Summit

20/09/2020 - 23/09/2020 • online

2020 EuChemS General Assembly (GA)

24/09/2020 • online

2020 EuChemS Professional Networks (PNs) annual meeting

29/09/2020 • online

Analytica conference 2020

19/10/2020 - 23/10/2020 • online

16th International Conference on Polysaccharides and Glycoscience

05/11/2020 • Prague, Czechia

The value is on circularity - Recycling-reusing-reinvesting on critical raw materials

05/11/2020 • online

2018 EuChemS Lecture Awardee - Webinar

13/11/2020 • online

CRISPR/Cas9: Everything you need to know

18/11/2020 • online

EuChemS Awards – Information Session

24/11/2020 • online

UPCOMING RECOGNISED EVENTS

In the current environment and status of COVID-19, some events are still being postponed or cancelled. If you are interested in attending one of EuChemS upcoming recognised events, we strongly encourage you to keep an eye on the website of the event organiser to stay up to date on the latest developments on the event you wish to attend.

Sustainable Chemistry Lecture Series 1 - SCLS

21/01/2021 • online

Sustainable Chemistry Lecture Series 2 - SCLS

15/02/2021 • online

1st Greenering International Conference

15/02/2021 - 17/02/2021 • Lisbon, Portugal

Sustainable Chemistry Lecture Series 3 - SCLS

02/03/2021 • online

International School of Process Chemistry - ISPROCHEM

09/05/2021 - 12/05/2021 • Gargnano, Italy

Green and Unconventional Synthesis, Approaches and Functional Assessment AIM 2020 (AIM 2020 Advanced Inorganic Materials)

24/06/2021 - 25/06/2021 • Bari, Italy

26th International Symposium on Separation Sciences - ISSS 2021

29/06/2021 - 02/07/2021 • Ljubljana, Slovenia

9th European Variety in University Chemistry Education - Eurovariety 2021

07/07/2021 - 09/07/2021 • Ljubljana, Slovenia

2nd International Conference on Noncovalent Interactions 2021 - ICNI2021

19/07/2021 - 23/07/2021 • Strasbourg, France

18th European Conference on Solid State Chemistry - ECSSC2021**15/08/2021 - 20/08/2021** • Prague, CzechiaGDCh Science Forum Chemistry 2021 - WiFo 2021**29/08/2021 - 01/09/2021** • Munich, GermanyXXIV European Conference on Organometallic Chemistry - EUCOMC XXIV**29/08/2021 - 02/09/2021** • Madrid, Spain13th Spanish-Italian Symposium on Organic Chemistry (SISOC XIII)**05/09/2021 - 07/09/2021** • Tarragona, Spain25th Conference on Isoprenoids**08/09/2021 - 10/09/2021** • Karaganda, Kazakhstan5th EuChemS Conference on Green and Sustainable Chemistry - EUGSC-5**26/09/2021 - 29/09/2021** • Thessaloniki, Greece2021 EuChemS General Assembly (GA)**21/10/2021 - 22/10/2021** • Larnaca, Cyprus2021 EuChemS Professional Networks (PNs) annual meeting**22/10/2021 - 23/10/2021** • Larnaca, Cyprus2nd Carbon Dioxide Conversion Catalysis Conference - CDCC-2**06/11/2021 - 09/11/2021** • Lisbon, Portugal31st International Symposium on the Chemistry of Natural Products and 11th International Congress on Biodiversity (ISCNP31 and ICOB11)**07/11/2021 - 11/11/2021** • Naples, ItalyEuropean Food Chemistry Congress XXI - EuroFoodChem XXI**June 2022** • Belgrade, Serbia6th International Congress "Chemistry for Cultural Heritage" - ChemCH-2022**04/07/2022 - 08/07/2022** • Ravenna, ItalyEuropean Conference of Research in Chemistry Education (ECRICE 2022)**11/07/2022 - 13/07/2022** • Rehovot, Israel8th EuChemS Chemistry Congress (ECC8)**28/08/2022 - 01/09/2022** • Lisbon, Portugal9th IUPAC International Conference on Green Chemistry - ICGC-9**September/October 2022** • Athens, Greece13th International Conference on the History of Chemistry (13ICHHC)**May 2023** • Vilnius, Lithuania13th European Conference on Computational and Theoretical Chemistry - EUCCO-CTC 2023**September 2023** • Khalkidhiki, Greece

Our calendar of events is regularly updated,
please have a look at the upcoming events directly on the website:
<https://www.euchems.eu/events-overview/euchems-events-calendar/>



For more information on how to apply for a recognition of events, visit:
<https://www.euchems.eu/events-overview/apply-for-recognition-of-event/>

BIENNIAL EUROPEAN CHEMISTRY CONGRESS

The Portuguese Chemical Society (SPQ), with the support of the Portuguese Electrochemical Society (SPEQ), has the great pleasure of organising the 8th EuChemS Chemistry Congress (ECC8) in Lisbon (Portugal), from 28th August to 1st September 2022.

The 8th EuChemS Chemistry Congress is being built under the unifying theme of *Chemistry the Central Science*, focusing on the central role of chemistry at the interfaces with biology, material, and environmental sciences, both for

the progress of humankind and for the solution of fundamental problems of modern societies. An exciting scientific program will give the opportunity to the participants to listen to the most celebrated world speakers presenting state of the art advances in chemical sciences, and to discuss their findings openly with the chemistry community and the world class experts.

Find more on the website of the event <https://euchems2022.eu/>



PROFESSIONAL NETWORKS

EuChemS Professional Networks are platforms in their own fields of expertise and promote collaboration with other European and international organisations. The Professional Networks organise high-quality scientific conferences in chemical and molecular sciences and interdisciplinary areas and contribute to EuChemS policy inputs. With 14 Divisions, 4 Working Parties, and the EYCN – European Young Chemists' Network, EuChemS is able to provide networking opportunities for chemists and researchers from across Europe, and from across fields of expertise.

2020 EuChemS Professional Networks (PNs) annual meeting

The current pandemic requested us to hold the 2020 annual meeting of EuChemS Professional Networks (PNs) online on 29th September 2020, but opened the door for more to attend and not only the Chairs. Overall, the meeting, chaired by Pilar Goya, EuChemS President, was attended by over 40 participants, having all Divisions, Working Parties, and the EYCN represented by at least one member. The meeting agenda covered many topics, amongst other the highlights of EuChemS, updates on financial matters, the involvement of (former) EYCN members into Divisions and Working Parties (PNs), outreach, and elections for two newly appointed representatives of PNs at the EuChemS Executive Board.

On the following pages, the 19 EuChemS Professional Networks present their aims and main activities.



Division of Analytical Chemistry

Website:

<https://www.euchems.eu/divisions/analytical-chemistry/>



BOARD OF THE DIVISION OF ANALYTICAL CHEMISTRY

EuChemS
European Chemical Society



The EuChemS Division of Analytical Chemistry is a network of chemical societies and their members working in all fields of analytical science which endeavours to give a voice to the interdisciplinary field of analytical sciences and develop links with related institutions across the world. The Division implements its strategy which includes developing the profile of Analytical Chemistry, enhancing the activities of Study Groups and Task Forces, the organisation and promotion of EUROANALYSIS conferences, encourage co-operation with other EuChemS divisions as well as co-operation with the American Chemical Society (ACS).

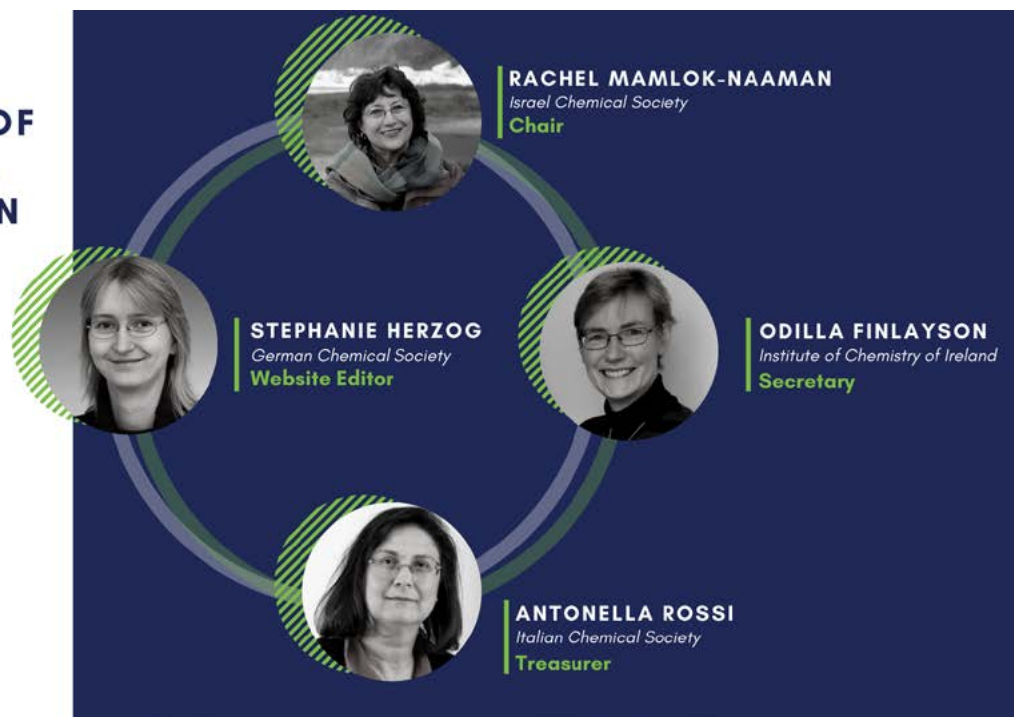
Division of Chemical Education

Website:

<https://www.euchems.eu/divisions/chemical-education-2/>



BOARD OF THE DIVISION OF CHEMICAL EDUCATION



The EuChemS Division of Chemical Education aims to promote chemical education research and practices in Europe, as well as improve dissemination of information. The Division runs biennial conferences and takes part in various initiatives including the development of the online course “Good Chemistry – Methodological, Ethical and Social Dimensions”. The Division moreover developed a questionnaire on quality mark of pre-service chemistry teachers, focusing on learning outcomes and competences, both in didactics-pedagogy of chemistry achieve such goals. This year, the EuChemS Division of Chemical Education tried to develop teaching strategies for on-line education.

Division of Chemistry and Energy

Website:

<https://www.euchems.eu/divisions/chemistry-and-energy/>



BOARD OF THE DIVISION OF CHEMISTRY AND ENERGY



The EuChemS Division of Chemistry and Energy aims to become a key forum for discussion and promotion of initiatives at the scientific, technical, and political levels to advocate for the leading role of chemistry in contemporary energy research. It organises conferences and workshops on energy-related topics in cooperation with other scientific, industrial, and political stakeholders at the national and European level. The Division also aims to support activities, organise platforms, attract funding, enhance networking opportunities, and promote education related to energy and chemistry in Europe.

Division of Chemistry and the Environment

Website:

<https://www.euchems.eu/divisions/chemistry-and-the-environment-2/>



BOARD OF THE DIVISION OF CHEMISTRY AND THE ENVIRONMENT



The overall aim of the EuChemS Division of Chemistry and the Environment is to promote and support cooperation in the area of chemistry and the environment, identify important areas in science, technology, and other human activities relevant to the subject, and to address aspects which need regulation, harmonisation, standardisation or codification, and to make recommendations as appropriate. The Division meets twice every year and is working on preparations for its upcoming Divisional Congress.

Division of Chemistry in Life Sciences

Website:

<https://www.euchems.eu/divisions/chemistry-in-life-sciences-2/>



BOARD OF THE 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. The Division promotes scientific activities, conferences, and networking opportunities for a subject at the frontier of chemistry, biology, and biomedicine. We devote special emphasis to the science made by young researchers.

Division of Computational and Theoretical Chemistry

Website:

<https://www.euchems.eu/divisions/computational-chemistry-2/>



BOARD OF THE DIVISION OF COMPUTA- TIONAL AND THEORETICAL CHEMISTRY



The EuChemS Division of Computational and Theoretical Chemistry endeavours to demonstrate the pervasive nature of computer science and technologies to enhance research and education in chemistry, molecular, and materials sciences. The Division promotes the development of virtual research and education communities, and fosters collaborative activities between theoreticians and experimentalists, academics and professors, teachers and students.

Division of Food Chemistry

Website:

<https://www.euchems.eu/divisions/food-chemistry-2/>



BOARD OF THE DIVISION OF FOOD CHEMISTRY



The EuChemS Division of Food Chemistry aims to represent food sectors of national chemical societies at the European level and to promote and harmonise teaching of food chemistry within food science across Europe, notably through conferences, technical roundtables, advanced schools, and training activities. The Division also aims to actively participate in the policy debate and in giving feedback through EuChemS to European decision-makers. 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.

Division of Green and Sustainable Chemistry

Website:

<https://www.euchems.eu/divisions/green-and-sustainable-chemistry-2/>



BOARD OF THE DIVISION OF GREEN AND SUSTAINABLE CHEMISTRY



The EuChemS Division of Green and Sustainable Chemistry aims to become the key forum for discussion and promotion of initiatives at the scientific, technical, and political level to advocate the leading role of green chemistry research. The Division organises conferences, workshops, and support activities that foster multidisciplinary cross-fertilisation of ideas to promote the advancement of Sustainability and Green Chemistry. The Division actively promotes the teaching of Green Chemistry within the curricula of bachelors, masters, and doctoral levels. The Division also recognises scientists that make outstanding contributions to the development of green and sustainable chemistry by launching the biennial European Sustainable Chemistry Award (ESCA).

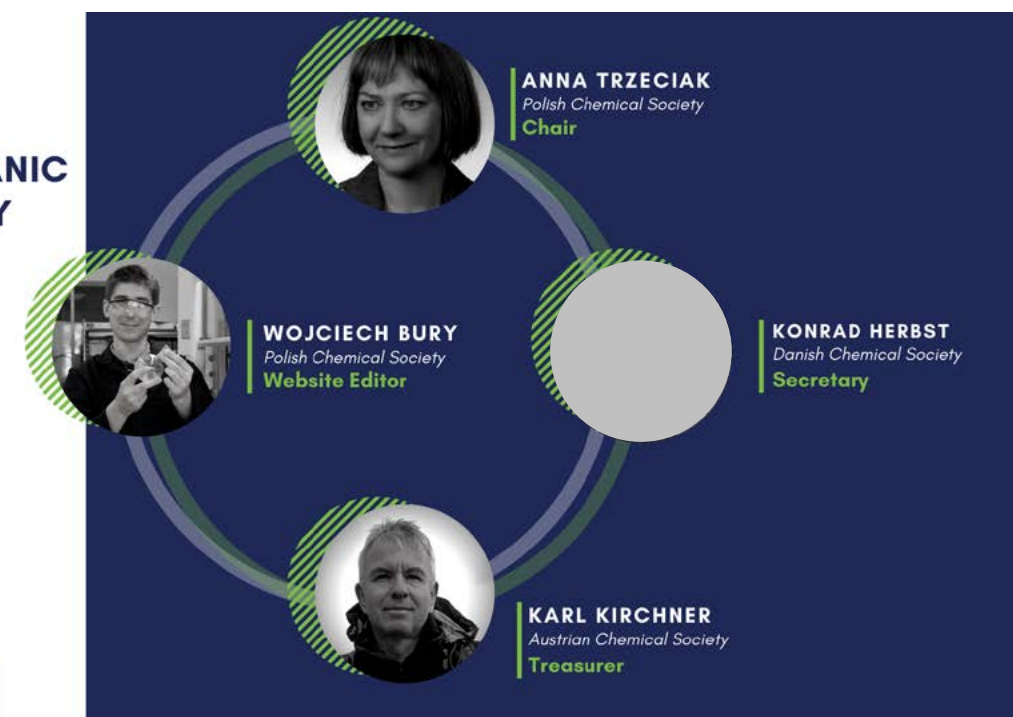
Division of Inorganic Chemistry

Website:

<https://www.euchems.eu/divisions/inorganic-chemistry/>



BOARD OF THE 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 promotes the dissemination of inorganic chemistry through its biennial conference as well as dedicated initiatives and activities. It also supports high level education through specialised schools and the production of dedicated books and other publications.

Division of Nuclear and Radiochemistry

Website:

<https://www.euchems.eu/divisions/nuclear-and-radiochemistry-2/>



BOARD OF THE DIVISION OF NUCLEAR AND RADIO- CHEMISTRY



The EuChemS Division of Nuclear and Radiochemistry provides a platform for a network of scientists working in nuclear and radiochemistry across Europe to share ideas and cooperate on concrete projects. Cooperation with relevant supranational bodies such as IUPAC and IAEA, as well as with journals and newsletters provides a broad network reaching outside of Europe too. The main objective of the Division is to contribute to the advancement of nuclear and radiochemistry in Europe, and to harmonise education and training on the subject in Europe.

Division of Organic Chemistry

Website:

<https://www.euchems.eu/divisions/organic-chemistry-2/>



BOARD OF THE DIVISION OF ORGANIC CHEMISTRY



The EuChemS Division of Organic Chemistry aims to promote Organic Chemistry in Europe in all the scientific and professional contexts. It supports networking among organic chemists, excellence in research and ethical values. The Division's 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. In 2019, agreements were finalised with the American Chemical Society and the Canadian Chemical Society to support greater exchanges for the YIW. Further bilateral agreements with other societies worldwide are planned.

Division of Organometallic Chemistry

Website:

<https://www.euchems.eu/divisions/organometallic-chemistry-2/>



BOARD OF THE DIVISION OF ORGANO- METALLIC CHEMISTRY



The EuChemS Division of Organometallic Chemistry acts as an active, trusted, and sustainable voice for all matters relating to the large and interdisciplinary field of fundamental and applied organometallic chemistry. The Division provides and coordinates activities such as congresses, schools and workshops for students and researchers. The Division also continues to present the European Prize for Organometallic Chemistry.

Division of Physical Chemistry

Website:

<https://www.euchems.eu/divisions/physical-chemistry-2/>



BOARD OF THE DIVISION OF PHYSICAL CHEMISTRY



The EuChemS Division of Physical Chemistry aims to strengthen the interaction of physical chemists throughout Europe. It supports Physical-Chemical conferences, workshops, and meetings. It aims to increase the networking and communication among its active division members. Through these, the Division tries to integrate and coordinate scientific activities - both national and international. The Division also provides support of physical chemical education and teaching and pays special attention to the promotion of young scientists' careers.

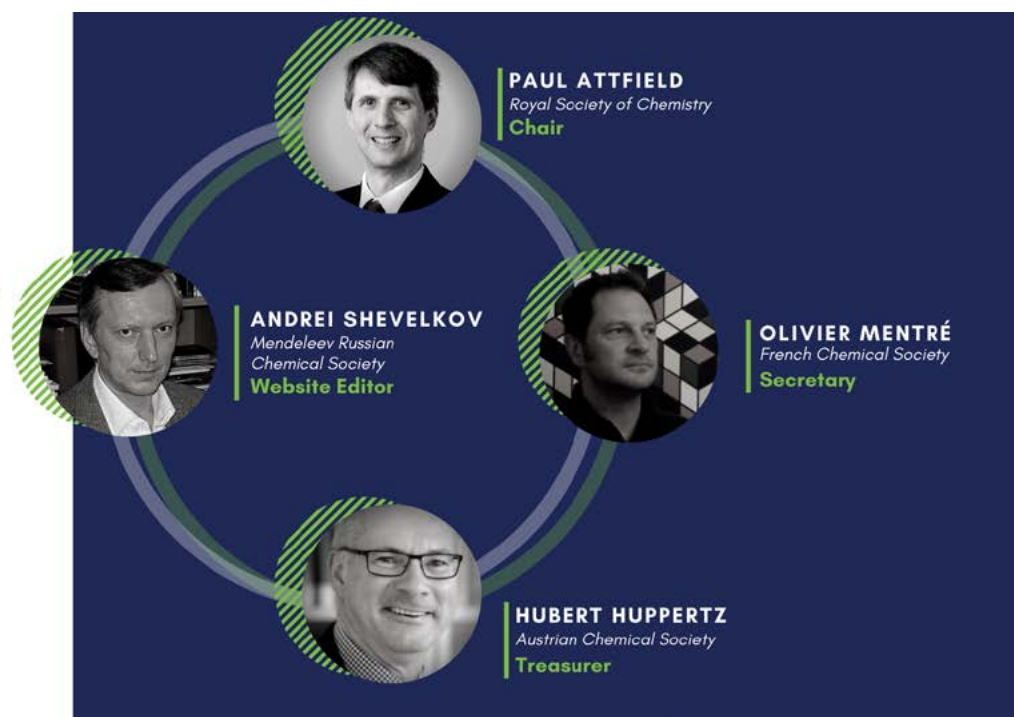
Division of Solid State and Materials Chemistry

Website:

<https://www.euchems.eu/divisions/solid-state-and-materials-chemistry/>



BOARD OF THE DIVISION OF SOLID STATE AND MATERIALS CHEMISTRY



The EuChemS Division of Solid State and Materials Chemistry covers 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. The Division aims to bring together the various sub-disciplines of the field and coordinate activities with existing national associations as well as with industry, solid state and materials chemistry being application oriented.

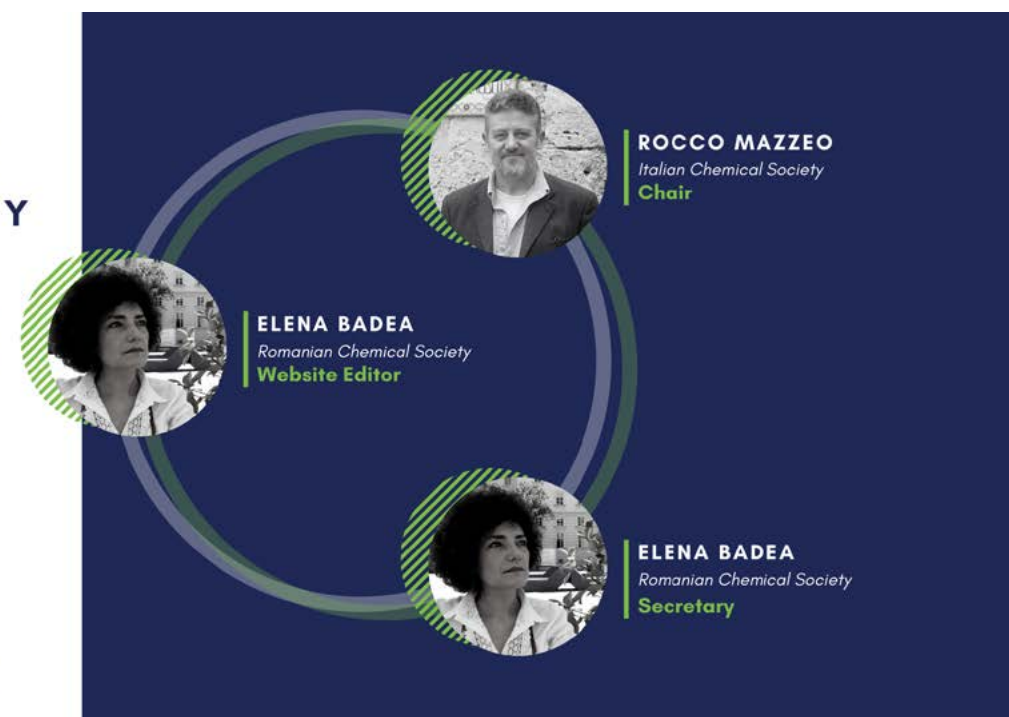
Working Party on Chemistry for Cultural Heritage

Website:

<https://www.euchems.eu/divisions/chemistry-for-cultural-heritage-2/>



BOARD OF THE WORKING PARTY ON CHEMISTRY FOR CULTURAL HERITAGE



The EuChemS Working Party on Chemistry for Cultural Heritage aims to create links the world over, as well as closely collaborate with the professional conservation community, e.g. International Institute for Conservation (IIC), International Council of Museums – committee for conservations (ICOM-CC), European Network for Conservation-Restoration Education (ENCoRe)... It aims to motivate and assist national chemical societies in promoting the interest and knowledge of the relation between chemistry and cultural heritage in Europe.

Working Party on Ethics in Chemistry

Website:

<https://www.euchems.eu/divisions/ethics-in-chemistry/>



BOARD OF THE WORKING PARTY ON ETHICS IN CHEMISTRY



The EuChemS Working Party on Ethics in Chemistry aims to assist in the propagation of ethical guidelines within the chemical community, and to help by dialectical reasoning in resolving controversies or dilemmas about the consequences, benefits and problems arising from the practice of chemistry. Towards this end, the Working Party intends to consult and cooperate with other public organisations such as the Organisation for the Prohibition of Chemical Weapons (OPCW) and national or European 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.

Working Party on Formulation in Chemistry

Website:

<https://www.euchems.eu/divisions/working-party-formulation-chemistry/>



BOARD OF THE WORKING PARTY ON FORMULATION IN CHEMISTRY



The main objective of this working party is to serve as a common platform for the gathering of European chemists and specialists with common interests in the field of formulation, which is the scientific and technological field about the art of combining together individual components, by the appropriate methods, obtaining the desired structures and achieving the targeted performance of the product. The specific aims of our Working Party are promoting the co-operation between European scientists in the field of formulation; promoting exchanges between scientists from academia and industry and developing interactions with companies; and promoting exchanges and reflexions about the teaching of formulation.

Working Party on the History of Chemistry

Website:

<https://www.euchems.eu/divisions/history-of-chemistry-2/>



BOARD OF THE WORKING PARTY ON THE HISTORY OF CHEMISTRY



The EuChemS Working Party on the History of Chemistry leads a number of projects to promote the history of chemistry and serves as a platform for international networking. Over the years, the international conference organised on a biennial basis has become a key event in the history of science community, bringing together chemists and historians from across Europe and beyond to investigate and discuss the latest research and reflections on a wide variety of aspects of the heritage and the history of the molecular sciences. The Working Party also contributes to EuChemS responses to EU-level consultations and to the Historical Landmarks Award, as well as to any EuChemS and ECC projects dedicated to the heritage and history of the chemical sciences.

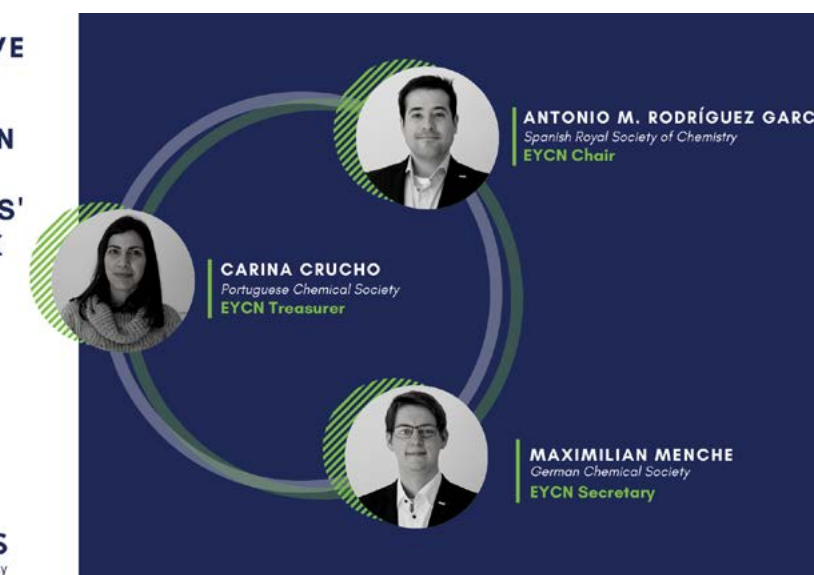
The European Young Chemists' Network (EYCN)

Website:

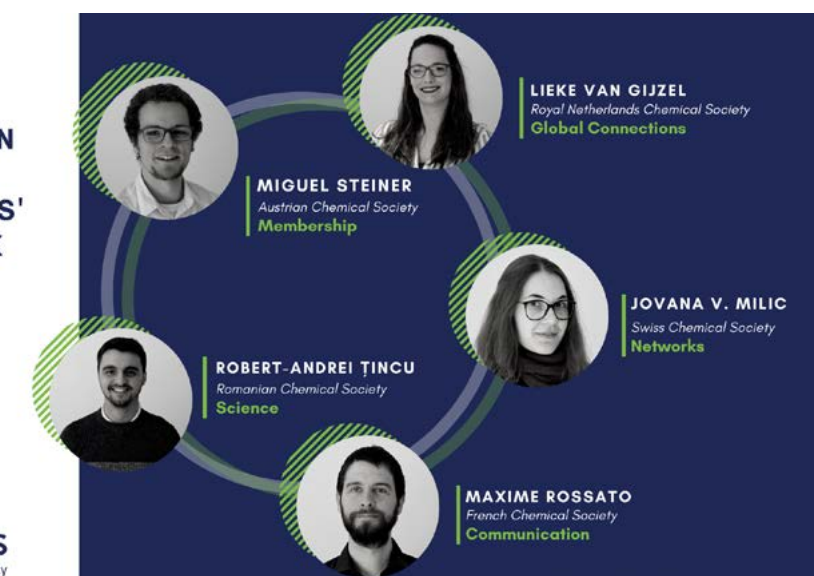
<https://www.euchems.eu/divisions/european-young-chemists-network/>



EXECUTIVE BOARD OF THE EUROPEAN YOUNG CHEMISTS' NETWORK - EYCN














TEAM LEADERS OF THE EUROPEAN YOUNG CHEMISTS' NETWORK - EYCN







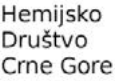






















The European Young Chemists' Network is the young division of EuChemS. The goal of the EYCN is to provide a platform to exchange ideas, promote new projects and improve the visibility of chemistry. The EYCN aims to create new educational and networking opportunities for chemists at the early stages of their career, by promoting several awards, organising workshops, and fostering exchange programmes to promote the mobility of its members. Through collaborating with industry and other young scientific societies around the world, the EYCN aims to tackle these ambitious goals. If your society is a member of EuChemS, but does not have any young representative(s) in the EYCN, you can contact membership@eycn.eu

MEMBERS

MEMBER SOCIETIES:

| | | |
|---|---|---|
|  | Osterreichische Gesellschaft für Analytische Chemie | <i>Austrian Society of Analytical Chemistry</i> |
|  | Gesellschaft Österreichischer Chemiker | <i>Austrian Chemical Society</i> |
|  | Société Royale de Chimie | <i>Walloon Royal Society of Chemistry</i> |
|  | Koninklijke Vlaamse Chemische Vereniging | <i>Royal Flemish Chemical Society</i> |
|  | Съюза на химиците в България | <i>Union of Chemists of Bulgaria</i> |
|  | Hrvatsko kemijsko društvo | <i>Croatian Chemical Society</i> |
|  | Παγκύπρια Ένωση Επιστημόνων Χημικών | <i>Pancyprian Union of Chemists</i> |
|  | Ceská společnost Chemická | <i>Czech Chemical Society</i> |
|  | Kemisk Forening | <i>Danish Chemical Society</i> |
|  | Eesti Keemia Selts | <i>Estonian Chemical Society</i> |
|  | Suomalaisten Kemistien Seura | <i>Finnish Chemical Society</i> |
|  | Société Chimique de France | <i>French Chemical Society</i> |
|  | Gesellschaft Deutscher Chemiker | <i>German Chemical Society</i> |

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|  | Deutsche Bunsen-Gesellschaft für physikalische Chemie e. V. (DBG) | <i>German Bunsen Society for Physical Chemistry</i> |
|  | Ένωση Ελλήνων Χημικών | <i>Association of Greek Chemists</i> |
|  | Magyar Kémikusok Egyesülete | <i>Hungarian Chemical Society</i> |
|  | Instituid Ceimice Na Héireann | <i>Institute of Chemistry of Ireland</i> |
|  | הימכל תילארשיה הרבחה | <i>Israel Chemical Society</i> |
|  | Federazione Nazionale degli Ordini dei Chimici e dei Fisici | <i>Italian National Board of Chartered Chemists and Physicists</i> |
|  | Società Chimica Italiana | <i>Italian Chemical Society</i> |
|  | Association Luxembourgeoise de Chimistes | <i>Association of Luxembourgish Chemists</i> |
|  | Hemijsko Društvo Crne Gore | <i>Chemical Society of Montenegro</i> |
|  | Koninklijke Nederlandse Chemische Vereniging | <i>Royal Netherlands Chemical Society</i> |
|  | Сојуз на хемичарите и технолозите на Македонија | <i>Society of Chemists and Technologists of Macedonia</i> |
|  | Norsk Kjemisk Selskap | <i>Norwegian Chemical Society</i> |
|  | Polskie Towarzystwo Chemiczne | <i>Polish Chemical Society</i> |
|  | Sociedade Portuguesa de Química | <i>Portuguese Chemical Society</i> |
|  | Sociedade Portuguesa de Electroquímica | <i>Portuguese Electrochemical Society</i> |
|  | Societatea de Chimie din Romania | <i>Romanian Chemical Society</i> |

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|---|--|---|
|  | Российское химическое общество им. Д.И. Менделеева | <i>Mendeleev Russian Chemical Society</i> |
|  | Научный совет по аналитической химии | <i>Russian Scientific Council on Analytical Chemistry</i> |
|  | Српско хемијско друштво (СХД) | <i>Serbian Chemical Society</i> |
|  | Slovenská chemická spoločnosť | <i>Slovak Chemical Society</i> |
|  | Slovensko kemijsko društvo | <i>Slovenian Chemical Society</i> |
|  | Real Sociedad Española de Química | <i>Spanish Royal Society of Chemistry</i> |
|  | Sociedad Española de Química Analítica | <i>Spanish Society for Analytical Chemistry</i> |
|  | Asociación Nacional de Químicos e Ingenieros Químicos de España | <i>National Association of Chemists and Chemical Engineers of Spain</i> |
|  | Societat Catalana de Química | <i>Catalan Chemical Society</i> |
|  | Svenska Kemisamfundet | <i>Swedish Chemical Society</i> |
|  | Société Suisse de Chimie – Schweizerische Chemische Gesellschaft | <i>Swiss Chemical Society</i> |
|  | Türkiye Kimya Derneği | <i>Turkish Chemical Society</i> |
|  | Royal Society of Chemistry | <i>UK Royal Society of Chemistry</i> |

SUPPORTING MEMBERS

| | |
|---|---|
|  | European Nanoporous Materials Institute of Excellence (ENMIX) |
|  | European Chemistry Thematic Network Association (ECTN) |
|  | 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) |
|  | European Federation for Medicinal Chemistry and Chemical Biology (EFMC) |
|  | International Sustainable Chemistry Collaborative Centre (ISC3) |
|  | Chemistry Europe |
|  | Consiglio Nazionale delle Ricerche – Italian National Research Council (CNR) |

PARTNERS AND OBSERVERS



IUPAC - International Union of Pure and Applied Chemistry



ACS - American Chemical Society



FACS - Federation of Asian Chemical Societies



EPS - European Physical Society



European Chemical Society





www.euchems.eu

secretariat@euchems.eu

Rue du Trône 62, B-1050 Brussels, Belgium



@EuChemS