



FASC Newsletter 11, December 2022

The FASC GM is upon us and the web link will be sent out soon so that all can attend the meeting (Thursday 15th December @ 6 pm Morocco time). At this time, a new committee will be elected. Details of the website to allow virtual attendance will be sent out soon. This is the last Newsletter for 2022. The FASC Executive wishes all its members a wonderful Festive Season and that 2023 will be a kind and successful year for all.

Neil Coville

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DETAILED CONFERENCE INFORMATION

See FASC website for data on conferences <https://www.faschem.org/>

ABOUT FASC

FASC website

The FASC website is now up and functioning. Information on the FASC history/the updated FASC constitution/old copies of the newsletter/copies of the African Journal of Chemistry etc., has been loaded onto the site. <https://www.faschem.org/>

FASC membership and invoices

Payment of fees

Online payment is now available to all Members and Societies

Please email fasc.chem@wits.ac.za and request an online payment link – Note it will be in ZAR. The Equivalent daily rate will be used when the payment link is created. You can enter card details via a safe site.

Mrs Laila Smith

Membership Fees

Please apply online: http://www.faschem.org/contact/membership_application

Important points

- 1) Cost for 2022 will be US\$100 per Society. (A charge of \$50 will be levied for 'Associate Member countries')
- 2) Individual membership will be available at US\$10 pa.
- 3) A new category 'Young affiliate member' will allow for post-graduate membership (at US\$5 pa).
- 4) To be a voting member at the GA, Society dues must be paid for that year

What does FASC do?

FASC has now been in existence for 15 years and encourages African Chemical Societies to join FASC. What does it do?

- 1) FASC currently produces the African Journal of Chemical Education (Editor: Dr Engida, Ethiopia; temechegne@faschem.org)
- 2) FASC is coordinating the Atlantic Basin Conference (ABC) on Chemistry in Morocco (December 2022 ; Chair: Prof Mamia el Rhazi, FASC President)

- 3) FASC has a General Assembly every two years that rotates around the African continent. The next one in December 2022 will be held in collaboration with the ABC event (Organisers: Tunisia)
- 4) FASC has a web site (currently being updated) to inform all of FASC activities
- 5) FASC is a member of IUPAC
- 6) FASC produces a monthly newsletter
- 7) FASC, with the financial support of the RSC, supports young African chemists to attend conferences
- 8) FASC members work closely with PACN
- 9) FASC works with the RSC, ACS and IUPAC seeking support for African chemists
- 10) FASC produced FRONTIERS IN CHEMISTRY – SPECIAL VOLUME ON AFRICA in 2022

The future

- 1) To become financially independent
- 2) To grow the number of member countries
- 3) To coordinate workshops/seminars within member countries

Information for the newsletter

Please send all information to Laila Smith (fasc@wits.ac.za), Emmanuel C. Ohaekenyem (ec.ohaekenyem@unizik.edu.ng) or to me (neil.coville@wits.ac.za)

Laila has placed all earlier newsletters on the FASC website (<http://www.faschem.org/>).

Advertising in the FASC newsletter

The newsletter will provide a means of getting messages to our member countries. This newsletter thus provides a means of advertising employment opportunities, conferences and workshops, and even for companies/Universities to promote themselves. We encourage member countries to use the Newsletter for advertising purposes. All conferences and events will be advertised for free; if not a FASC country, there could be a small charge. For advertising costs, contact the FASC office in South Africa: laila.smith@saci.cac.za

CHEMISTRY NEWS

FASC General Meeting 2022

Data for the upcoming FASC General Assembly (AGM) is given below.

i) Invite



21-10-2022

Dear Sir/Madam,

Re: Invitation to attend the 8th FASC AGM on Thursday 15th December 2022, Marrakech, Morocco.

The 8th FASC AGM will take place on 15th December, 2022 as part of the ABC Chem conference which is taking place from 13th -16th December 2022. Unfortunately, due to financial constraints, FASC is unable to sponsor FASC member societies like it has done in the past. So, this year's FASC AGM will take a hybrid form where those who can be in Marrakech will attend the meeting in person and those who cannot be in Marrakech will participate virtually via zoom.

FASC is by this letter inviting your chemical society to the 8th FASC AGM. Please indicate who your society's representative will be and also if the representative will attend the AGM in person. A draft agenda for the meeting has been added for your comments and suggestions for additional items. Please submit your suggested additions to agenda by October 27th so we can finalize the agenda.

Societies who are in areas with their dues are reminded to settle their arrears as societies that owe dues may not be allowed to vote during the elections. To assist with currency issues payments can be made (in dollars/euros) in Marrakech to Prof Coville prior to the AGM. These funds will be placed in the FASC account.

We look forward to hearing from you and also to see you at the AGM.

Yours Sincerely,

Professor Mama El Rhazi, FASC President

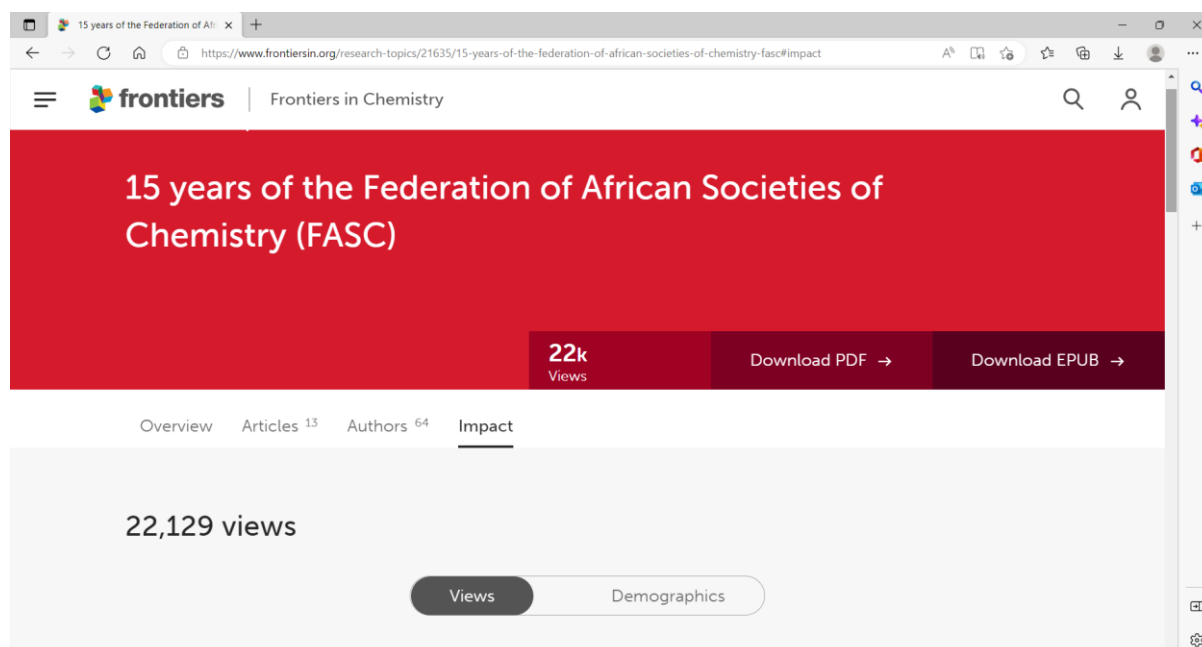
African Chemical Societies and Other News

i) Frontiers in Chemistry (special edition: 15 years of the Federation of African Societies of Chemistry (FASC)).

The special edition of Frontiers in Chemistry has now been published. The articles are OPEN ACCESS – so is available free to all. As can be seen from a screen shot of the web page the edition has garnered a good deal of readership

PUBLISHED 12 October 2022

CITATION: Darkwa J, Coville NJ, Nkansah MA, Oyedeji AO and El Rhazi M (2022), Editorial: 15 years of the Federation of African Societies of Chemistry (FASC).
Front. Chem. 10:1046430. doi: 10.3389/fchem.2022.1046430



The Team that put together the special edition have written an editorial describing the contents. This is given below.

TYPE Editorial

PUBLISHED 12 October 2022

DOI 10.3389/fchem.2022.1046430

Editorial on the Research Topic: 15 years of the Federation of African Societies of Chemistry (FASC)

This Research Topic of Frontiers in Chemistry is produced to celebrate the 15th anniversary of the Federation of African Societies of Chemistry (FASC). Established on the 23rd of February 2006, FASC was set up to promote the advancement of chemical sciences and the practice of chemistry that could be instrumental to the fulfilment of the development, aspiration and objective of the people in Africa. In order to achieve the above aim, FASC set up the following objectives:

- To promote and maintain effective communication throughout the community of chemists and chemical scientists in Africa.
- To promote collaborative activity among member societies and among the individual members of these societies.
- To maintain and promote high professional, educational and ethical standards.
- To disseminate chemical knowledge.
- To act in an advisory, consultative and representative capacity in relation to African institutions and regional initiatives.
- To promote cooperation with other international organizations and similar regional and international networks.

FASC has championed Green Chemistry as one area of chemistry that could lift the continent into sustainable development. Although FASC conferences have always set aside 1 day during for presentations on either Green Chemistry or Green Chemistry related research, for this Research Topic we broadened the areas for OPEN ACCESS article submission in order to accommodate as many manuscript submissions as possible. In doing so, we obtained submissions from our community that would reflect contemporary research taking place on the continent. As will also be observed from the list of 61 authors, many African chemists have partnered with chemical scientists from Europe, Asia and North America, some of whom have supported FASC activities over the years. In all we received 19 manuscripts for consideration to be published in this

Research Topic. Of these, 12 articles were accepted for publication. The published articles provide a spectrum of some areas of research activities on the continent. Of the submissions, there are four reviews or perspective articles and eight articles that report data that have not been published before. The articles cover topics such as solar energy, liquid fuels, greener ways to make known materials, water treatment, and a computational approach to making materials from biomass. The article by [Muchuweni et al.](#) provides insight into recent advances on how carbon nanotubes can be used in organic solar cell applications where efficiencies were improved from 0.68% to above 14%.

Three more articles report the use of carbon nanotubes or carbon spheres, as supports for catalysts in catalytic reactions. The article by [Salhi et al.](#) uses functionalized multi-walled carbon nanotubes as an electrode for the electrochemical sensing of nitrite. The outcome of this study could be used to produce a low-cost, but highly sensitive rapid detection method for nitrite in water, a problem that is prevalent in rural water supplies in developing countries that rely on underground water, possibly contaminated by sewage. In another article, by [El Attar et al.](#), a catalyst made by supporting Cu(OH)₂-CuO/polypyrrole on multiwalled-carbon nanotubes was shown to efficiently oxidize ethanol in an alkaline medium using electrocatalysis. The third article that uses platinum nanocatalysts supported on a hollow carbon sphere support, by [Mashindi et al.](#), revealed the material to be a highly durable and efficient catalyst in oxygen reduction reactions, results that have potential impact on the durability of hydrogen fuel cells.

Another impactful article is that by [Mensah et al.](#) The authors explored a DFT approach to understanding how the basecatalyzed cleavage of β -O-4 ether linkages can lead to selective depolymerization of lignin to produce phenolic compounds that are currently produced from fossil fuels. This should encourage synthetic chemists on the continent to use the insights provided in this article to further investigate the large-scale production of phenols from biomass.

Two of the remaining seven articles cover the synthesis of filter materials from local starting materials. The perspectives on the development of filter media for “point of use” water filters by [Chigome et al.](#) provides a case study for how arsenates can be removed from arsenic polluted waters to make such waters potable. This article is a clear demonstration that some of the pollution problems that we have on the continent can be solved using available local resources.

Similarly, [Nkansah et al.](#) have used the scales of tilapia, a fish that is abundant in the tropical parts of Africa, to fabricate efficient low-cost filters to remove fluoride from water, especially useful for East African communities where high fluoride concentrations in water is a problem.

Three articles in this Research Topic cover the topic of environmental pollution. For example, [Labidi and Megriche](#) have used locally available natural fluorapatite to demonstrate that their addition of this natural fluorapatite to Portland Cement manufacturing plants in Tunisia decreased CO₂ emissions. In another article, by [Amakali et al.](#), the use of zinc sulfide nanostructured materials was shown to photocatalytically degrade Rhodamine dye, a dye that finds its way into water bodies from textile factories. A third article by [Obuseng et al.](#) described the use of moringa oleifera seed pods for the removal of toxic metals from wastewater to produce potable water for irrigation and industrial use. The article also discussed the more significant issue of using plant biomass as an “economic commodity,” and how non-edible plants can provide nutrients and metals that are beneficial for plant growth.

Two articles are on more classical catalytic chemistry. [Sonali Anantha et al.](#) have provided a review of how heterogeneous catalysts have been used in what they term “multicomponent synthesis of dihydropyridines under green conditions” which summarises work from their research and other laboratories. The article by [Dembaremba et al.](#) provides a “perspective on strategies for improving ultra-deep desulfurization of liquid fuels through hydrotreatment.” Both these reviews succeed in providing an update to readers on developments in the two focus areas. It was hoped that the articles will be of interest to the readership of *Frontiers in Chemistry*. Indeed, early impact matrices show that as of the 7 September 2022, there were already 18,066

views and 2,315 downloads of articles in this Research Topic. This is an excellent sign that readers have interest in the subject matter covered in the articles.

The Editorial Group of this Research Topic would like to take this opportunity to thank Frontiers in Chemistry and its staff, especially those who worked closely with the Editorial Group on this issue (Jos Kellie (October 2020-January 2021; Lucy Chappel (February 2021-October 2021 and Shannon Lee (November 2021-present), in giving FASC the opportunity to tell its story during this 15th Anniversary of the organization.

ii) Egypt

On behalf of the board of directors of The Egyptian Society of Analytical Chemistry, one of the founding members of the Federation of African Societies of Chemistry, I would like to give you an overview of the current updates of our society.

Recently, a new board was elected by the society members and its current members are:

Name	Affiliation	Position
Prof. Dr. Rasha Mohamed El Nashar	Chemistry Department, Cairo University	President of the board
Prof. Dr. Rabie saad Farag El Halag	Al Azhar university	Vice President
Prof. Dr. Mahmoud Sabry Rizk	Chemistry Department, Cairo University	Financial affairs
Dr. Nora Saed	Chemistry Department, Cairo University	Secretary
Prof. Dr. Aida El ansary	Chemistry Department, Cairo University	member
Prof. Dr. Ahmed Gala	Chemistry Department, Cairo University	member
Prof. Dr. Fatma Abo Shehata	Nuclear Power Plants Authority	member
Dr. Hatem Ibrahim Hassan	Faculty of pharmacy Sinai University	member
Prof. Dr. Mohamed Zayed	Chemistry Department, Cairo University	member

Regarding the recent activities of society:

Through the past two years, most of the activities were hanged due to the Death of Prof, Yousry Issa, The former president of the society, and the Covid Crisis, so currently, we are trying to conduct some soft activities for fundraising and grasping the attention of the old members and attract new ones. These activities include:

- ☐ A seminar was held on September 18, 2022, entitled: Dangers and Threats of the Internet, at the Faculty of Science, Cairo University.
- ☐ An orientation seminar was held on October 19, 2022 at the Faculty of Science, Cairo University, in cooperation with the Training Unit of the faculty. It was delivered by Dr. Rasha El-Nashar / Mahmoud Gamal, targeting undergraduate and postgraduate students, entitled: **Find Your Career Path**. It aims to introduce students to the different fields of work related to analytical chemistry specifically, and it will launch a number of seminars Specialized for each field delivered by specialists.
- ☐ A webinar was held on Thursday, October 27, 2022 within the framework of the Arab Chemistry Week, entitled: The New World Order in Energy, and Prof. Dr. Ahmed Galal delivered it.

The Plan of upcoming seminars include:

- ☐ Molecularly imprinted polymers from perspectives to applications.
- ☐ SEM from sampling to data interpretation
- ☐ Workshop for undergraduate and postgraduate students on how to prepare metallic nanoparticles and their applications.

We appreciate your kind support, and looking forward to participating in any upcoming activities.

Rasha El Nashar

iii) **Tunisia**

See the information under African Journals of Chemistry and the adverts for the conference, below.

iv) **Senegal**

Report and pictures from the Senegalese Committee for Chemistry (<https://csc.ucad.sn>) event: 5th Annual Days of Chemistry of Senegal on November 22-23, 2022, in Dakar.

After a three-year break due to the COVID 19 pandemic, the Senegalese Committee for Chemistry (CSS) organized on November 22 and 23, the 5th edition of the Annual Chemistry Days of Senegal (JACS 2022), on the theme: Developing Oil, Gas and Mining Resources through Chemistry.

JACS 2022 were placed under the seal of friendship and brotherhood between the Senegalese and Mauritanian people in general and in particular, between the Chemical Society of Mauritania (SCM) and the Senegalese Committee for Chemistry (CSC) which are linked by a partnership agreement.

For the first time, the JACS welcomed international participants: from Mauritania, Tunisia, France and Niger. During the two days, 9 plenary conferences, 62 oral communications and 16 poster communications were presented.

The conference was opened by the Dean of the Faculty of Science and Techniques of Cheikh Anta Diop University (UCAD) on behalf of the Rector, and closed by the 1st Technical Advisor of the Minister of Higher Education, Research and Innovation.

At the end of the JACS, the CSC guests, including Professor Hatem ben Rhomdane, President of the Chemical Society of Tunisia, visited the memorial island of Goree, off the coast of Dakar.

*Opening ceremony**Guest visit to Goree**Organising committee and guests**Attendees**Communication winner*

Prof. Modou Fall, UCAD, Dakar

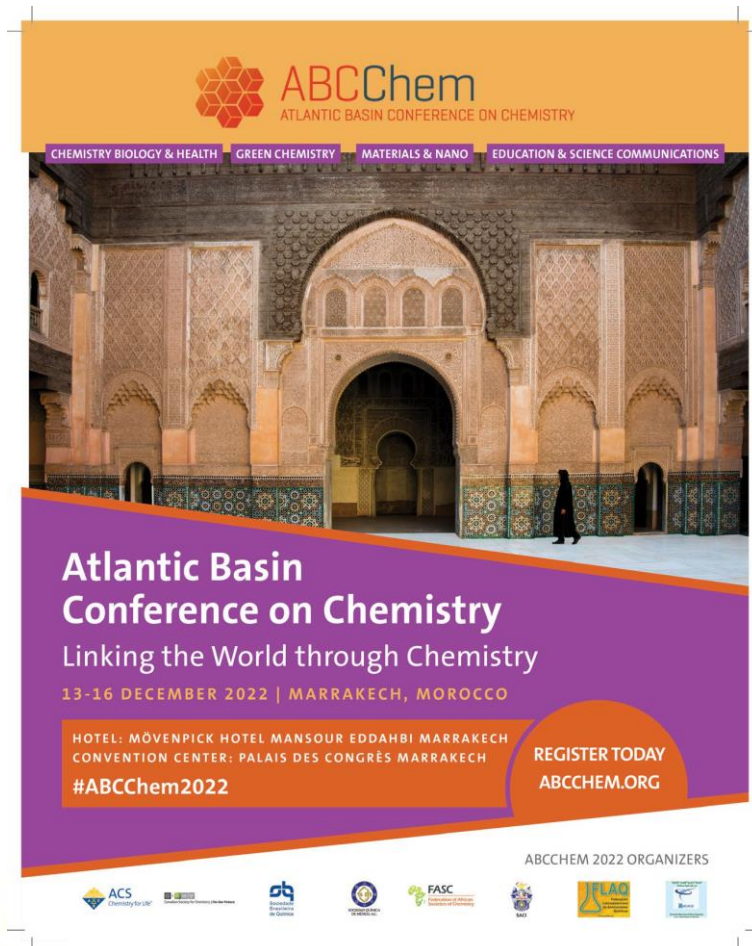
v) **Nigeria: OWSD Nigeria National Chapter event**

The OWSD Nigeria National Chapter - Port Harcourt branch invites interested OWSD members to participate in the 6th Biennial International Conference on Diversity and Innovation in Science for Sustainable Development.

This conference will take place from 19-23 March 2023 at the University of Port Harcourt, Rivers State, Nigeria.

OWSD Secretariat

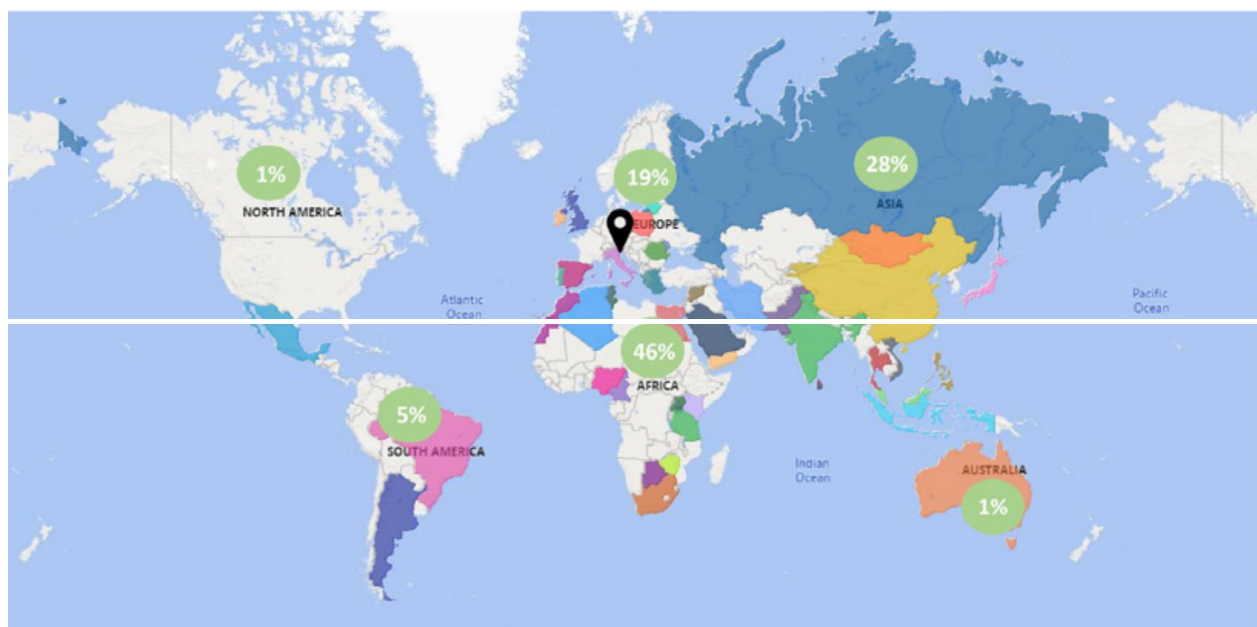
vi) **ABC Chem event**



Emerging Chemists' News

i) **Report on the Green Chemistry event held in Venice, 2022**

The full report is contained in Chemistry International. Parts are given below. It is notable that 46 % of the delegates who participated in the workshop were from Africa



Demographic distribution of students at the 14th GCPSS.

by Akwaowo Inyangudoh, Beatriz Chícharo, Giovanna Mazzi, Seyyed Emad Hooshmand, Gizelle van Niekerk, Lyvia Menezes, Fábio G. Delolo, Amy Naylor Randles, Fabrizio Politano, María Luz Tibaldi Bollati, Zikhona Tywabi-Ngeva, and Zikhona Tshemese. Making Global Green Connections: The Importance of Green Chemistry Summer School for Sustainable Development. Chemistry International October-December 2022 p42- 48

Gizelle Roque van Niekerk (South Africa)



As a 1st-year MSc student from the developing country of South Africa, I am grateful to Pietro Tundo for seeing potential in me as a young scientist by selecting me to attend the in-person event on scholarship. The 14th Green Chemistry Summer School was a life-changing experience and instrumental to my future career as a chemist. It was an honor to present my research at such a prestigious international summer school. The opportunity reinforced my belief that green chemistry solutions are a fundamental course of action for sustainable development in the Global South. It was a privilege to engage with postgraduate students from a broad spectrum of countries and I found the talks given by highly influential scientists very inspiring. Networking with people who share the same common goal encouraged me to fervently continue my pursuits in the ground-taking field of green chemistry.

Akwaowo Imoh Inyangudoh (Nigeria)



The week-long 14th GCPSS was intriguing and impactful! It has shaped my thinking about my future research to always consider a greener approach. Towards a sustainable future, this program has achieved three interesting things: (a) diversity and inclusion; it helps to level up the science around green chemistry, especially that of low economies; (b) targeting and recognition of young scientists from all over the world as the driving force and future impact makers; and (c) putting the principles of green chemistry on our minds and making us see their relevance in achieving the UN Sustainable Development Goals. Furthermore, the social event created an excellent atmosphere for networking and future collaborations.

Zikhona Tywabi-Ngeva (South Africa)



I found the 14th GCPSS to have been amazing and enlightening. I started working on nanotechnology/Nanomaterial research since 2015, but I was not really clued up on how to go about applying innovative solutions to the different industries through nanotechnology. I found the lecturers and their journeys in nanotechnology to be very inspiring and I'm feeling delighted to have been able to be a part of the 14th GCPSS. The content shared by the various lecturers was interesting and thought-provoking in a positive way. The 14th GCPSS also adDorded the potential for nanotech research project collaborations, start-up collaborations, and postgraduate student supervision.

ii) IUPAC Young Observer

Apply today to be an IUPAC Young Observer



The International Union for Pure and Applied Chemistry (IUPAC) is accepting applications to the Young Observer Program that will take place in The Hague, Netherlands, August 18-25, 2023. This program allows young scientists and engineers, under age 45, to build international collaborations, gain knowledge of global research activities, and participate in IUPAC activities. Young Observers attend meetings of IUPAC Divisions and Standing Committees in their particular areas of interest during the IUPAC World

Chemistry Congress and General Assembly and learn about IUPAC activities. Applicants under 35 will also have the opportunity to be considered for nomination to serve as a U.S. delegate to the [International Younger Chemists Network \(IYCN\)](#). Learn more about the [USNC IUPAC Young Observer Program](#) and apply by December 15 at 5:00 PM ET. Please contact Liana Vaccari at lvaccari@nas.edu with any questions.

iii) 15th Green Chemistry Postgraduate Summer School

15th GREEN CHEMISTRY POSTGRADUATE SUMMER SCHOOL
2nd -7th July 2023
Venezia, Italy



REGISTRATIONS FOR POSTGRADUATE STUDENTS ARE NOW OPEN!

We are opening the applications for all the young scientists who would like to participate in the Green Chemistry Postgraduate Summer School 2023, Venice.

- Call for Applications for paying students, who will apply for participation in presence in Venice or online.
- Call for Applications for the students coming from Developing Countries, who will apply to Scholarships grants in presence in Venice or online.

The 15th Edition of the Green Chemistry Postgraduate Summer School 2023 will be organized in Venice from 2nd to 7th of July 2023 by the Green Sciences for Sustainable Development Foundation and will follow the steps of the past editions with renewed strength. The aim of the Summer School is to give updates regarding the advances in Chemistry research and sustainable processes year by year presented by well-recognized scientists.

The School also embraces the principles of equality and inclusivity, by giving to the students the opportunity to grow professionally and create international connections. Many students from the previous edition had brilliant institutional careers in Offices and Universities all over the world, and some of them returned to Venice as Teachers in the School to offer their scientific contributions.

Almost all Teachers already confirmed their presence and the Official Program will follow the structure of the 14th Edition 2022 <https://www.greenchemistry.school/programme/>

The themes of the Summer School 2023:

- | | |
|--|-------------------|
| 1. Exploitation of renewable resources | 5. Climate Change |
| 2. New reaction pathways | 6. Education |
| 3. Energy saving | 7. Health |
| 4. Food Safety | |

Please find in attachment the Poster of the Green Chemistry Postgraduate Summer School 2023.

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del Registro delle Persone Giuridiche
del Prefetto di Venezia

of African
Chemistry

Royal Society of Chemistry News



i) Publishing in RSC Sustainability



This RSC journal deals with issues central to FASC. One of the new Associate Editors is Prof Vincent Nyamori (UKZN, South Africa). Submissions to this Journal will be FREE until mid-2025



About *RSC Sustainability*

RSC Sustainability welcomes all solutions-focused research dedicated to solving sustainability challenges and champions chemical science discoveries that contribute to and enable any of the [UN's Sustainable Development Goals](#). As an inclusive journal, we celebrate multidisciplinary collaboration as well as traditional chemical science contributions. Find out more [here](#).

Led by Editor-in-Chief [Professor Tom Welton \(Imperial College London\)](#), all submissions are handled by our experienced and internationally recognised Associate Editors. Further information about the journal scope, editorial team and how to submit, can be found on our webpage: rsc.li/RSCSus.

RSC Sustainability is a [gold open access](#) journal. This means that the exceptional research you publish here can be easily accessed by people around the world. We are also paying for all article processing charges (APCs) until mid-2025, so you can gain global recognition without costing you or your funding body.

About the Royal Society of Chemistry

Our mission at the Royal Society of Chemistry is to advance excellence in the chemical sciences (find out more [here](#)). As a society publisher, we re-invest all surplus back into the global scientific community, providing support for authors, researchers and educators. If you would like to find out more about the advantages of publishing in a Royal Society of Chemistry journal, please visit our [website](#).

Royal Society of Chemistry

www.rsc.org

ii) Pan Africa Chemistry Network

The Pan Africa Chemistry Network (PACN) has a LinkedIn group where members share information related to PACN activities, news, and events from across Africa. You can apply to join this group here <https://www.linkedin.com/groups/1900756/>

Biophysics community in Africa through IUPAB

A group working in the area of Biophysics has sent the following message. For those interested please contact Prof. Anthony Watts. Also pass on the information to others who may be interested in working with this group

We are seeking to establish and support a biophysics community in Africa, and already we have organized a number of networking events funded by the US Biophysical Society, and us at the Intl. Union of Pure and Applied Biophysics (IUPAB).

We are aware that many major science societies have a "biophysics" arm, such as the Biophysical Chemistry section of the UK RSC. Engaging those who are in sub-groups of larger societies is a valuable way of extending collaboration and cooperation in biophysics.

Would you kindly let us know if you have any biophysics activity in FASC, and if so, put us in touch with them.

We are also building bridges with groups of younger scientists (IASP physics and IYNC chemists) and if you have a similar group, we would be grateful for their contact details to organize capacity building events.

[IUPAB Capacity Building in Biophysics Event, April 26 - 28th- recording here](#)

Anthony Watts, DSc(Oxf); FRSC, FRSB; FIoP; FAmBPS;

Leverhulme Fellow,

President (2017-2019), European Biophysical Societies Association (EBSA)

President-elect (2021-2024), Intl. Union Pure and Applied Biophysics (IUPAB)

Editor, European Biophysical Journal,

Biochemistry Dept., South Parks Road, Oxford, OX1 3QU, UK

Tel. no +44 - (0)1865- 613219

FAX no. +44 - (0)1865- 613201

AFRICAN JOURNALS OF CHEMISTRY

i) African Journal of Chemical Education

The online version is to be found on the FASC website (www.faschem.org, under Journal) and the AJOL website (www.ajol.info).

AJCE, 2022, 12(2) ISSN 2227 is available on line

Enquiries and manuscripts should be addressed to the Editor-in-Chief: email eic@faschem.org, PO Box 2305, Addis Ababa, Ethiopia.

Dr. Temechegn Engida e-mail: temechegne@faschem.org

ii) Other African Journals of Chemistry


- Chemistry Africa - The Journal of the Tunisian Chemical Society (<https://www.springer.com/journal/42250>)
- See the FASC website for a complete list of Journals

CONFERENCES/WORKSHOPS

Upcoming events

- i) **15th Green Chemistry Postgraduate Summer School** 5th-7th July 2023, Venezia, Italy.
<https://www.greenchemistry.school/programme/>

- ii) 21st Tunisia **Chemistry Conference (TCC 2022)**; 18 to 21 December, Monastir, Tunisia;
<http://www.sctunisie.org/tcc2022/>
- iii) **ACRISE 2022, 5th African Conference on Research in Chemical Education**, 7th-9th December 2022, Cairo, Egypt. <https://arice.online>
- iv) **44th SACI Convention 2023**. Stellenbosch, SA, 9-13 January 2023
- v) **ABCChem**. Marrakech, Morocco, 13-16 Dec 2022, (www.faschem.org)
- vi) **African Materials Research Society (AMRS 2021)**. 12-15 Dec 2022, Dakar, Senegal
www.africanmrs.net (see FASC website www.faschem.org)



GREEN CHEMISTRY
LIVE AND ONLINE
POSTGRADUATE
SUMMER SCHOOL
2nd-7th July 2023
Venice, Italy

Organizers:
Pietro Tundo Chairman
Fabio Aricò
Aurelia Visa
Mirabbos Hojamberdiev
Graziana Gigliuto Secretary

Topics:
Benign synthesis routes
Green catalysis
Alternative solvents
Renewable and green raw materials
Green chemistry for energy
Clean processes
Green Chemistry education

Info:
www.greenchemistry.school
www.gssd-foundation.org

Contacts:
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secretariat@gssd-foundation.org
greenchemistrysummerschool2023@gmail.com

Photo: Corbis, Imagoeconomica

Federation of African
Societies of Chemistry



FASC

Federation of African Societies of Chemistry