



FASC Newsletter 2, March 2021

This month sees the Inaugural Meeting (virtual) of the Commonwealth Chemistry (Federation of Chemical Sciences). The event was delayed from last year due to the covid-19 pandemic. One of the features of the opening event will be talks to mark both International Women's Day and Commonwealth Day where issues around gender and women in the chemical sciences will be discussed (open to all; details below). One of the speakers will be Gloria Obuzor (University of Port Harcourt) who is on the FASC executive.

Neil Coville

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ABOUT FASC

Information for the newsletter

Please send all information to Beth (admin@faschem.org), Emmanuel C. Ohaekenyem (ec.ohaekenyem@unizik.edu.ng) or to me (neil.coville@wits.ac.za)

Beth has placed all earlier newsletters on the FASC website.

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, or related event there could be a small charge. For advertising costs, contact Beth in the FASC office

FASC member countries

We are currently attempting to upgrade our country membership list. There is a small charge associated with membership. Please contact the treasurer, Prof Yonas Chebude for information (yonasc@faschem.org ; yonasdb1@yahoo.com).

CHEMISTRY NEWS

Corona virus data

The numbers of virus cases (and deaths) keeps rising. But there are many sites now available that summarise the current status of drug development.

- i) **Some useful sites for hard data**

<https://ig.ft.com/coronavirus-global-data>

<https://ourworldindata.org/coronavirus>

<https://www.worldometers.info/coronavirus/>

Frontiers in Chemistry – special volume on Africa

Frontiers in Chemistry (<https://www.frontiersin.org/journals/chemistry>)

As mentioned in the last edition, FASC will publish articles in *Frontiers in Chemistry* from chemists in Africa to display work going on within the continent. FASC will be 15 years old and the edition will summarise some of the history of FASC. Prof James Darkwa will act as the Editor of the articles. More information on this venture will be communicated soon. It is important that we have many publications from many African countries in this volume.

African Chemical Societies News

viii) Prof Ngila: Laureate of 23rd L'Oréal-UNESCO For Women in Science International Awards

Africa and Arab States



Professor Catherine Ngila – Chemistry. Acting Executive Director of the African Academy of Sciences, Former Deputy Vice Chancellor in charge of Academic and Student Affairs (DVC-AA) at Riara University, Kenya, and Visiting Professor of Applied Chemistry at the University of Johannesburg, South Africa. Recognized for introducing, developing and applying nanotechnology-based analytical methods to monitor water pollutants. Her innovative work is of vital importance for the development of water resource management in an environmentally sustainable way.

Taken from AAS news

Younger Chemists' News

i) Post-graduate Summer School on Green Chemistry

The Green Sciences for Sustainable Development Foundation (www.gssd-foundation.org) is organizing the 13th Edition of the **Post-graduate Summer School on Green Chemistry that will be held from the 4th to 10th of July 2021 in Venice.**

This Summer School follows the 12 previous editions held from 1998 to 2020, but will be the first one organized both **on site** and **online**.

Scholarships will be offered to young talented chemists from developing countries. We will be very glad if you would consider participating in the Summer School. Applications are now open! You can find complete information about the School in the Summer School Poster and at the following website: www.greenchemistry.school.

Aurelia Visa

On behalf of Pietro Tundo,

Chair of Summer School on Green Chemistry

E-mail: green.chemistry@unive.it

Web: www.unive.it/ssgc

Facebook: <https://www.facebook.com/greenchemvenice2020/>

Twitter: <https://twitter.com/greenchemsummer>

Instagram: <https://www.instagram.com/greenchemsummer/>

ix) African Young Chemists Network (AYCN)

It is an exciting time to be a young chemist on the African continent. The African Younger Chemists Network (AYCN) seeks to display the unique talents of young researchers on the continent and to provide a platform for constructive career development and engagements across the globe.

Currently, the AYCEN is in its development stage, and is looking for enthusiastic volunteers for the following subcommittees:

Finance, governance, membership, international liaison, social media, and public outreach.

If you would like to be involved, please fill out your details via the link below.

https://docs.google.com/forms/d/e/1FAIpQLSfHicSdblbYL2mbkcggREUrb-kfvEwc7KU_bnczve9lx0j1Bw/viewform

For more information please contact Ms Bianca Davids at aycn.chemists@gmail.com. See the Google form link introducing the AYCEN and requesting volunteers to populate the various subcommittees. <https://forms.gle/hVAM8UeEY57hjusPA> The form will be open until the end of the year.

Contact email: aycn.chemists@gmail.com; Contact people: Ms Bianca Davids, Dr Sadhna Mathura

x) International Young Chemists Network (IYCEN)

Professional Development Skills:

The International Younger Chemists Network (IYCEN; <https://www.iycnglobal.com/>), affiliated organization of the International Union of Pure and Applied Chemistry (IUPAC) is organizing a **series of FREE live workshops** devoted to support and empower early-career chemists with **professional development skills** to advance their careers.

Stephen O Aderinto: soaderinto1@sheffield.ac.uk



Commonwealth Chemistry News

i) **UPDATE - Inaugural Commonwealth Chemistry Congress—Partnerships for the Goals, 18-20 May 2021**

The dates for the virtual Congress will be 18-20 May 2021 with each day having a two or three hour session. The programme will have the planned scientific themed sessions together with sessions covering 'Chemistry and the Commonwealth' and 'Career Conversations'.

Dear Colleagues,

We are excited to communicate with you about an event that Commonwealth Chemistry is organising to take place on 8th March, to mark international Women's Day and Commonwealth Day.

Addressing gender parity across the Commonwealth

Monday 8 March 2021, 11.30am GMT

What will be covered in this webinar?

Baroness Scotland, Secretary-General of the Commonwealth and Dr Vicki Gardiner, President-Elect of Commonwealth Chemistry will introduce the event, highlighting the importance of the Commonwealth and the role that the chemical sciences can play to benefit the nations of the Commonwealth and their people.

Following this our speakers, Professor Carole Mundell (International Science Envoy, Foreign, Commonwealth & Development Office), Dr Sarah Overington (Director of the Science Promotion and Operations Division of the Natural Sciences and Engineering Research Council of Canada) and Professor Gloria Obuzor (University of Port Harcourt and Former President, Chemical Society of Nigeria) will discuss:

- perspective on gender issues throughout the Commonwealth and cultural challenges to attract and retain women in the chemical sciences
- gender inequality and its consequences in research culture, including gender bias in publishing
- policies on integrating diversity and gender equality from the perspective of a funding agency

This event is **open to all and is free to attend**, so please promote this to your members and contacts across the chemistry community. We have created email text that includes the registration details, please find this attached. We hope that you find this tool useful to share the invitation with your communities. We look forward to seeing you at the event, please register here: <https://www.chemistryworld.com/webinars/addressing-gender-parity-across-the-commonwealth/4013206.article>. Note that for that the webinar will be available to watch on demand afterwards on the Chemistry World website.

If you have any questions, please do not hesitate to contact us, we will be very happy to help.

Commonwealth Chemistry Secretariat

ii) Chemistry World – free access for 2021

In June 2020, the Commonwealth Chemistry Executive Board accepted the offer from the Royal Society of Chemistry and introduced a scheme to allow free, unlimited access to the Chemistry World website throughout 2020.

Today, we are delighted to announce that we are extending this scheme to 31 December 2021 for all members of commonwealth chemical societies. This provides another year of **free, unlimited** access to the Chemistry World website for all those who wish to participate.

The access provided under the scheme would normally only be available to paying subscribers and members of the Royal Society of Chemistry. It includes:

- over 16,000 archived articles spanning more than a decade of coverage
- over 150 new articles, videos and podcasts published each month
- personalised emails to alert you when stories of interest are published

We encourage everyone to take advantage of this scheme, so please pass this message onto your members:

What is Chemistry World?

Chemistry World is the flagship magazine of the Royal Society of Chemistry, available online at www.chemistryworld.com. It publishes a wide range of content covering the latest research, new and views from across the global chemical sciences community. There is an extensive archive of over 16,000 articles online and more than 150 new articles, podcasts, webinars and videos are published each month.

How do I claim my free access?

By being a member of your national chemical society, you can have access to Chemistry World online. Simply visit <https://www.chemistryworld.com/commonwealth-chemistry> and follow the instructions on screen.

Dr Vicki Gardiner; President Elect, Commonwealth Chemistry

AFRICAN JOURNALS OF CHEMISTRY

- **Scientific African**

Published by the [Next Einstein Forum](#) in collaboration with Elsevier.

<https://www.journals.elsevier.com/scientific-african>

- **Journal of the Kenya Chemical Society (JKCS)**

This is a peer-reviewed multi-disciplinary chemistry journal published by the Kenya Chemical Society (KCS). JKCS publishes findings from all areas of chemistry including organic, inorganic, physical, analytical, materials chemistry and nanoscience, computational chemistry and environmental chemistry. JKCS also publishes reviews in all areas of chemistry. Published articles are available at <https://kenyachemicalsociety.org/journals>. Manuscripts should be submitted to the Editor-in-Chief at eic.jkcs@gmail.com for processing and peer-review.

- **Chemistry Africa.**

A Journal of the Tunisian Chemical Society

https://www.springer.com/chemistry/journal/42250?utm_source=hybris&utm_medium=email&utm_content=internal&utm_campaign=JFTT_2_2018newjournals

- **Journal of the Mauritanian Chemical Society (JMCS)**

Publishes research articles and conference proceedings in English or French. This is published online at: <http://www.scmauritania.org/journal-scm>; M A Sanhoury, JMCS Coordination Editor.

- **South African Journal of Chemistry**

This Journal is published electronically. The webpage is: <http://www.saci.co.za/>. Details of the journal and the editors can be seen at <http://www.journals.co.za/sajchem/>. The South African Journal of Chemistry, published by the South African Chemical Institute, has been publishing high quality papers, in all fields of Chemistry for over 100 years. The Journal went fully electronic in 2000 and is freely available through open access online (http://reference.sabinet.co.za/sa_epublication/chem).

- **African Corrosion Journal (online).**

Commenced in 2015 – a peer reviewed corrosion journal. This journal may be of interest to the “practical” chemists amongst the SACI membership. <https://view.publitas.com/icp-1/african-corrosion-journal>

- **African Journal of Chemical Education**

Enquiries and manuscripts should be addressed to the Editor-in-Chief: email eic@faschem.org, PO Box 2305, Addis Ababa, Ethiopia. *AJCE*, 2016, 6(1) ISSN 2227-5835 The online version appears in the FASC website (www.faschem.org) and in the AJOL website (www.ajol.info).

- **South African Journal of Science** TOC@assaf.org.za

- **Journal of the Chemical Society of Nigeria**

csnjournals@gmail.com; csnjournals@yahoo.com; editor@chemsocnigeria.org

- **Bulletin of the Chemical Society of Ethiopia**
<http://www.ajol.info/index.php/bcse/index>
- **South African Journal of Chemical Engineering**
A fully open access journal <http://www.journals.elsevier.com/south-african-journal-of-chemical-engineering/>
- **African Journal of Pure and Applied Chemistry**
Editorial Office: ajpac@academicjournals.org help desk: helpdesk@academicjournals.org;
URL: www.academicjournals.org/journal/AJPAC

CONFERENCES/WOKSHOPS

Upcoming events

- XVth International Symposium on Environment, Catalysis and Process Engineering** 23th -25th November 2021 Marrakech, Morocco
- African Light Source Foundation**; 22-26 March 2021 (ZOOM)
- 26th IUPAC International Conference on Chemistry Education**, 18-22 July 2022, Cape Town
- 3rd IEEE conference on Design and Test of integrated micro and nano-Systems** , 7-10 June 2020, Tunisia
- Post-graduate Summer School on Green Chemistry**, Venice, Italy (4-10th July 2021). www.greenchemistry.school
- African Materials Research Society (AMRS 2021)** 13-16 Dec 2021, Dakar, Senegal <https://africanmrs.net> v)
- ABC Chemistry conference** Morocco Dec 2022

Detailed conference information

- XVth International Symposium on Environment, Catalysis and Process Engineering (23 - 25 November 2021 | Marrakech, Morocco)**

Conference Dates: November 23-25, 2021

Abstract Submission Opens: October 29, 2020

Registrations Opens: November 02, 2020

Contact info: Abdelhak.kherbeche@ecgpmorocco.com; 00212-661-081-734

- African Light Source Foundation**

For the week of 22-26 March 2021, the African Light Source Foundation, the African Physical Society, and Biostruct Africa are planning to convene a *Biophysics in Africa* Zoom conference as part of the global *Biophysics Week* activities. <https://events.saip.org.za/e/biophysics2021>.

Chair, African Light Source Foundation
Simon.Connell@africanlightsource.org



The African Light Source Foundation

www.africanlightsource.org
secretariat@africanlightsource.org



iii) 26th IUPAC International Conference on Chemistry Education

The Covid-19 pandemic has led to profound changes in the way we work and live. The current steep increase in cases as well as the uncertainty about international travel means that it is no longer feasible to host the 26th IUPAC International Conference on Chemistry Education in Cape Town in January 2021. The IUPAC Committee for Chemistry Education has agreed to a further postponement of the conference to July 2022. The conference will be known as **ICCE 2022**. Preliminary information about **ICCE 2022** is given below.

Dates: 18-22 July 2022

Venue: Lagoon Beach Hotel and Conference Venue

Abstracts

The call for abstracts will be re-opened on 4 October 2021. If you have already submitted an abstract, you will be invited to resubmit your abstract when the submission process re-opens.

Registration

Registration will re-open on 4 October 2021. Should you have already paid your registration fee, we are pleased to advise that we will honour the 2020 registration fees. All unpaid registrations will be carried over to the 2022 event and re-invoiced at the revised registration fee. You are free to cancel your registration and to re-register for ICCE 2022 at the new rates. **Please click on the link below to submit your response.**

ICCE 2022 RESPONSE FORM

We would appreciate a response by 31 August 2020.

Accommodation

Delegates who have booked and paid their accommodation will be contacted by our booking office to arrange for the monies to be refunded. If you have booked directly with the hotel, (i.e. not through our secretariat), we ask you to please contact Lagoon Beach Hotel directly.

We look forward to seeing you in Cape Town in July 2022 and ask you to circulate this notice to your colleagues who may not be members of SACI.

Please address any questions to icce2022@allevents.co.za and consult the website, <https://www.icce2022.org.za/>, for regular updates.

The Local Organising Committee for ICCE 2022

For registration queries: +27 (0)21 910 1913 • email: icce2022@allevents.co.za

Event Organiser office: +27 (0)21 712 0571

email: icce@eventmanagementsolutions.co.za

iv) 3rd IEEE conference on Design and Test of integrated micro and nano-Systems



3rd IEEE 2021 International Conference on Design & Test of integrated micro & nano-Systems

June, 7-10, 2021 Sfax, Tunisia

<http://www.DTS-conf.org>

IEEE DTS'2021 CALL FOR PAPERS - EXTENDED DEADLINE

Virtual Interactive Event



Aim of the Conference: The third IEEE international conference on Design & Test of integrated micro & nano-Systems represents a scientific and technological event dedicated to integrated electronic systems which reach the nanoscale era. The interests of the conference cover all aspects of micro and nano systems from design to test. DTS is an important meeting where well known researchers from universities and companies will present the latest innovations in the field of micro and nano electronics. It will be also an opportunity for researchers to present and discuss their latest work.

All accepted and presented papers will be published on the DTS Conference Proceedings and submitted for possible publication on IEEE Xplore.

Papers Submission: Authors are invited to submit original and unpublished research work. Paper submissions should be complete manuscripts not exceeding six pages in a standard IEEE two-column format. The paper must clearly indicate the area, main results and contributions. The manuscript should follow the instructions included in the author's kit at the conference web site. Submitted articles should be in PDF format and uploaded to the on-line submission system. A submission will be considered as evidence that, upon acceptance, the author(s) will prepare the final camera-ready version of the paper in time for inclusion in the proceedings, and will present the paper at the conference.

Best Paper award: A best paper award will be given during the conference.

Journal Special Issue: A selection of the best papers presented in the Conference will be considered for publication in a Special Issue of well-known international journals.

Papers are solicited in, but not limited to, the following topics:

Systems Design & Technology

- Analog, digital, mixed, and RF circuits design
- SoC, MPSoC, NoC, SIP, and NIP design
- Embedded electronics and System architecture
- MEMS, NEMS and MOEMS systems design
- Low-power electronics and systems design
- Sensory Systems Design
- Wireless communication systems design
- Opto-electronic System Design
- Biomedical Circuit & Systems
- Bio-engineering & Bio-chip design
- Linear & Non-Linear Circuits
- Power electronics and systems design
- Hardware co-design & FPGA design
- VLSI systems circuit and design
- DSPs and multiprocessor systems
- Embedded systems for Deep Learning
- Control Systems & Mechatronics
- Algorithms, methods and tools for modeling, simulation, synthesis and verification of ICs
- Algorithms, methods and tools for signal processing and image processing
- Algorithms, methods and tools for information security and cryptography
- Artificial Intelligence systems
- Electronic systems for energy harvesting applications
- GPS based engineering systems
- Process technologies, CMOS, BiCMOS, GaAs
- Microwave Systems & Integrated antenna
- 3D integration design and analysis
- ICs packaging

Systems Testing & Reliability

- Analog, digital, mixed, and RF circuits testing
- SoC, MPSoC, NoC, SIP, and NIP test
- On-line Testing and fault Tolerance
- Defect and Fault Modeling
- MEMS, NEMS and MOEMS Testing
- 3D testing
- Delay testing
- DFT, BIST and BISR
- Fault Simulation, ATPG
- Yield Optimization
- Memory & FPGA Test and Repair
- Automotive reliability and test
- Reliability failures and modeling
- Electronic System Reliability
- Test and Security Issues
- ATE issues
- Alternatives test strategies

Nanotechnology and applications

- Nanomaterials and applications: Nanostructured / nanoporous Materials and devices, Carbon Nanostructures and devices, Polymer Nanotechnology and devices...
- Nanoscale Materials/devices Characterization and modeling
- Nanoelectronics: Nano-circuits and Nano-architectures,
- Microfluidics and Nanofluidics Systems
- Nano-sensors for environmental monitoring
- Nanotechnology for health care and diagnosis: BioMEMS and BioNEMS, Lab-On-chips and Biosensors, Implantable micro/nano systems...
- Nano/micro Technologies based Energy harvesting and storage devices and microsystems: Renewable and Novel Energy harvesting approaches (innovative solar cells, piezoelectric and thermoelectric microsources), Energy storage devices and applications (fuel cells, supercapacitors etc.)
- Nanorobotics and Nano-manipulation

VLSI IoT Devices

- Ultra-low power VLSI design for IoT
- System on Chip for IoTs
- IoT Application oriented Technologies
- IoT communication systems
- Real-time IoT systems
- RFID systems
- IoT Services and Applications
- IoT nodes architectures
- Sensors and Actuators for IoT
- Power and Energy systems design for IoT nodes
- Connectivity for IoT
- Computing Platforms for IoT
- Data Acquisition, Storage and Management for IoT
- Security and Privacy Enhancing Technologies for IoT devices
- IoT System Interfaces
- Reliability of IoT VLSI

Key Dates for Paper Submissions:

Paper Submission Deadline : **January 14th 2021** February 16th, 2021
 Notification of acceptance : **March 23rd, 2021**
 Final version due date : **April 6th, 2021**

Online submission: <https://cmt3.research.microsoft.com/DTS2021>

Program Chairs

Pr. Cherif Dridi
CRMN, Tunisia

Dr. Maher Rizkalla
IUPUI, USA

Pr. Trond Ytterdal
NTNU, Norway

General Chairs
Dr. Salem Abdennadher
INTEL, USA
Pr. Mohamed Masmoudi
ENIS, University of Sfax, Tunisia



Federation of African Societies of Chemistry

v) **Post-graduate Summer School on Green Chemistry, Venice, Italy**



GREEN CHEMISTRY
LIVE AND ONLINE
POSTGRADUATE
SUMMER SCHOOL
 4th-10th July 2021
 Venice, Italy

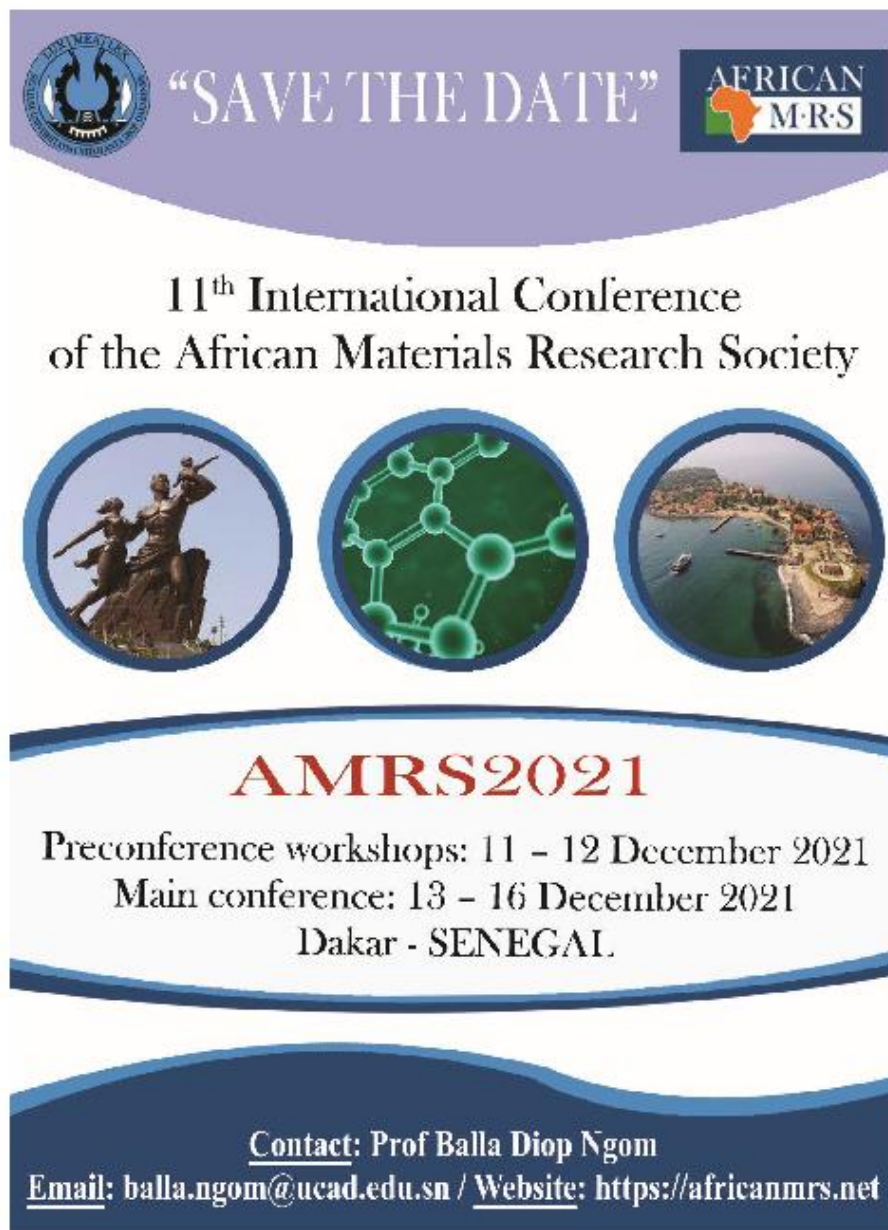
Organizers:
Pietro Tundo Chairman
Fabio Aricò
Aurelia Visa
Mirabbos Hojamberdiev

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



Info at: <https://www.gssd-foundation.org>

Logos at the top: GREEN SCIENCES FOR SUSTAINABLE DEVELOPMENT FOUNDATION, IUPAC, Ca' Foscari University of Venice Department of Environmental Sciences, Informatics and Statistics, GREENOMICS, HeMaIn.




African
chemistry

vi) **AMRS 2021**

The poster for the 11th International Conference of the African Materials Research Society (AMRS 2021) features a purple header with the text "SAVE THE DATE" and the AMRS logo. Below the header, the conference title is displayed in a serif font. Three circular images are arranged horizontally: a statue, a molecular structure, and a coastal scene. The main text "AMRS2021" is in a large, bold, red serif font. The dates and location are listed below. The footer contains contact information for Prof Balla Diop Ngom.

 **"SAVE THE DATE"** 

**11th International Conference
of the African Materials Research Society**

AMRS2021

Preconference workshops: 11 – 12 December 2021
Main conference: 13 – 16 December 2021
Dakar - SENEGAL

Contact: Prof Balla Diop Ngom
Email: balla.ngom@ucad.edu.sn / Website: <https://africanmrs.net>

vii) **ABC Chemistry Conference 2022/2023**

The conference date has been moved to late 2022/early 2023. It will be held at the Palais des congrès – Marrakech, Morocco. FASC will be hosting the event.

We are hoping to have an excellent turnout from African member countries at this event. More information will be made available in the months ahead.

الجمعية المغربية للكيمياء التحليلية من أجل تنمية مستدامة

Association Marocaine de Chimie Analytique pour un Développement Durable

1

Second Atlantic Basin Conference on Chemistry

Marrakech



Federation of African
Societies of Chemistry