



KCS
KENYA CHEMICAL SOCIETY

Theme:

“HARNESSING THE POWER OF CHEMISTRY FOR SUSTAINABLE FUTURE”

**The 12th Kenya Chemical Society (KCS) International Conference
and**

The 10th Federation of African Societies of Chemistry (FASC) Congress

EVENT PROGRAMME

9th - 11th Sep, 2026



FASC

Federation of African
Societies of Chemistry

Venue:

**United States International
University - Africa
(USIU-A) in Nairobi,
Kenya.**



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Preface

The **12th International Conference of the Kenya Chemical Society (KCS)** and the **10th Federation of African Societies of Chemistry (FASC) Congress** provide a platform for researchers, academics, students, innovators, industry professionals, and policymakers to share recent advances in chemistry and related disciplines. The conference promotes scientific excellence, interdisciplinary collaboration, innovation, and the application of chemistry to address global challenges and advance sustainable development.

We sincerely thank all authors, keynote and invited speakers, reviewers, sponsors, partners, and delegates for their valuable contributions and participation. We trust that this conference will foster meaningful collaborations, inspire innovative research, and strengthen the role of chemistry in improving society.

Conference Theme

Theme: “Harnessing the Power of Chemistry for a Sustainable Future”

Conference Sub-Themes:

1	Health	5	Food and Agriculture
2	Water	6	Materials Chemistry and Nanochemistry
3	Energy	7	Computational Chemistry and Artificial Intelligence in Chemistry
4	Environment, Green Chemistry and Chemical Safety & Security		



Conference Objectives:

1. To promote interdisciplinary collaboration among scientists, researchers, educators, and industry professionals in the field of chemical sciences.
2. To provide a platform for presenting and discussing cutting-edge research that contributes to sustainable development through chemistry.
3. To enhance knowledge exchange and innovation across key thematic areas including health, energy, water, environment, agriculture, materials science, and AI-driven chemistry.
4. To strengthen capacity building and scientific networking, particularly among young African scientists, students, and early-career researchers.
5. To explore emerging trends and technologies such as green chemistry, nanochemistry, computational methods, and artificial intelligence in solving global challenges.
6. To foster dialogue between academia, industry, and policymakers to align chemical science innovations with national and regional development goals.
7. To raise awareness and promote best practices in chemical safety and security, responsible care, and sustainable chemical management.
8. To showcase practical applications of chemistry in addressing pressing issues such as climate change, food security, clean energy, and public health.
9. To encourage publication and dissemination of high-quality research through peer reviewed journals and conference proceedings.
10. To position Africa as a growing hub for chemical sciences innovation, contributing meaningfully to global scientific discourse and sustainable development.

Organizing Committee Members

#	Committee Member	Email	Affiliation & Academic Role	Committee Role
1	Prof. Naumih Noah (MRSC)	mnoah@usiu.ac.ke	Associate Professor of Analytical/Bioanalytical Chemistry, USIU-Africa	Conference Chair
2	Prof. Leonard Gitu	gitumleo@gmail.com	Associate Professor of Chemistry, Jomo Kenyatta University of Agriculture and Technology	Conference Ass/Chair
3	Dr. Eunice A. Nyawade (MRSC)	enyawade@jkuat.ac.ke	Senior Lecturer, Inorganic chemistry and Bioinorganic chemistry, Jomo Kenyatta University of Agriculture and Technology	Conference Secretariat
4	Mr. Kelvin Owiti O. Otieno	kelvinowiti67@gmail.com	Postgrad, Chemical Innovation and Regulation, Jointly University of Bologna/Barcelona/Algarve	Conference Secretariat
5	Dr. Geoffrey Otieno	geoffrey.otieno@tukenya.ac.ke	Senior Lecturer, Department of Chemistry and Materials Science at the Technical University of Kenya	Treasurer
6	Dr. Eric Masika (MRSC)	Masika.eric@ku.ac.ke	Senior Lecturer, Physical Chemistry and Nanotechnology Applications, Department of Chemistry, Kenyatta University	Member
7	Dr. Esther Nthiga	esther.nthiga@dkut.ac.ke	Senior Lecturer, Physical Chemistry and Material Chemistry, Department of Chemistry, Dedan Kimathi University of Technology	Member
8	Dr. Mzuga Jason M	jason.mzuga@egerton.ac.ke	Lecturer of Inorganic Chemistry, Egerton University	Member
9	Dr. Emily C. Cheshari	echeshari@laikipia.ac.ke	Lecturer of Analytical and Environmental Chemistry, Laikipia University	Member
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11	Dr. Irene M. Githinji	mueni.irene@ku.ac.ke	Lecturer, Analytical Chemistry, Kenyatta University	Member
12	Dr. John Muraba Wanjohi	jwanjohi@uonbi.ac.ke	Senior Lecturer, Organic Chemistry Department of Chemistry, University of Nairobi	Member
13	Dr. Solomon Omwoma Lugasi	solomwoma@yahoo.com	Senior lecturer, Inorganic Chemistry, Jaramogi Oginga University of Science and Technology	Member
14	Prof. Mildred Nawiri	nawiri.mildred@ku.ac.ke	Associate Professor of Chemistry, Department of Chemistry, Kenyatta University	Member
15	Prof. Austin O. Aluoch	austin.ochieng@gmail.com	Associate Professor of Chemistry, Department of Chemistry and Materials Science at the Technical University of Kenya	Member
16	Dr. Kibe Macharia	kibemacharia@gmail.com	Lecturer, Department of Chemistry, Kenyatta University	Member

Welcome Message from the Conference Chair



Dear Delegates,

Welcome to the International Conference on Advances in Chemical Sciences 2026.

We are delighted to host researchers, students, innovators, and industry partners for three days of scientific exchange, collaboration, and innovation.

Guided by the theme “*Harnessing the Power of Chemistry for a Sustainable Future*,” the conference provides a platform to showcase scientific advances, share transformative ideas and explore how chemistry can contribute to sustainable solutions for society, industry and the environment.



We wish you a productive, engaging and inspiring conference, with meaningful exchanges, collaborations and opportunities to advance chemistry for a sustainable future.

Conference Chair

Prof. Naumih Noah

USIU-Africa

Acknowledgements

The Organizing Committee of the 12th International Conference of the Kenya Chemical Society (KCS) and the 10th Federation of African Societies of Chemistry (FASC) Congress sincerely acknowledges all those who contributed to the success of this conference.

We extend our heartfelt appreciation to our official sponsors, partners, keynote and invited speakers, presenters, reviewers, delegates, exhibitors, volunteers, and the entire conference organizing team for their invaluable support and commitment.

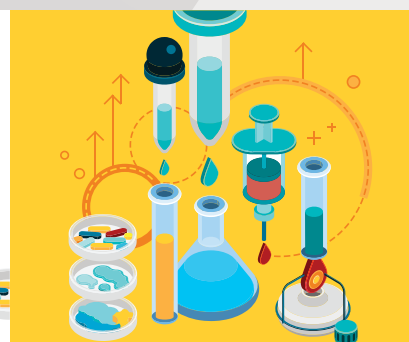
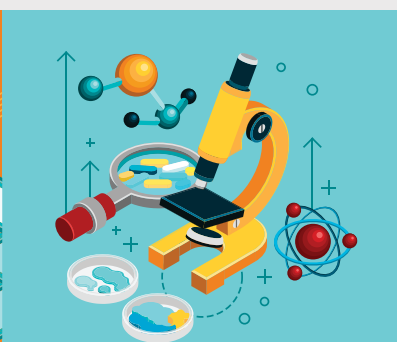
Special appreciation goes to the institutions and organizations whose partnership and resources have helped create a platform for scientific exchange, innovation, collaboration, and sustainable solutions through chemistry.

We are grateful to every participant whose knowledge, ideas, and enthusiasm have enriched this gathering. Together, we continue to advance chemistry, inspire innovation, strengthen collaboration, and harness the power of chemistry for a sustainable future.

Thank you for being part of this remarkable scientific journey.

Day 1: 9th September, 2026

Time (EAT)	Activity		Auditorium	
08:00–9.00	Registration		Conference Secretariat	
09.00–09:05	Welcome Remarks		Master of Ceremony: Prof. Mildred Nawiri	
09:05–09:50	Opening Ceremony	09:05–09:15	KCS President	Prof. Leonard Gitu
		09:15–09:25	FASC President	Prof. Ben Romdhane, Hatem
		09:25–09:35	VC USIU-Africa	Prof. Mwenda Ntarangwi
		09:35–09:50	Chief Guest (CS)	Dr. Deborah Mlongo Barasa E.G.H
	Session Chair:		Prof. Mildred Nawiri	
	Session Rapporteur:		Mr. Kelvin Owiti	
09:50–10:30	Keynote Address: Promoting and Commercializing Innovation in the Continent of Africa: Discovering New Medicines		Prof. George Njoroge Founder & Chairman of C.O.A.L. S	
10:30–11:00	Health Break/Photo Session			
11:00–11:30	Plenary Lecture I Glancing the Kenyan Flora through the eyes of NMR: Towards the Discovery of Antimalarial Compounds		Prof. Abiy Yenesew Professor of Organic Chemistry, University of Nairobi	
11.30 – 11.45	Partner Presentation		Chemical & Engineering News (C&EN) Nick Perkins	
11.45-12:15	Plenary Lecture II Utilizing Mass Spectrometry for Addressing Problems Facing Communities in a Low-Resource Environment		Prof. Antony Gachanja Professor of Analytical Chemistry, Jomo Kenyatta University of Agriculture and Technology	
12.15 – 12.45	Q&A			
12.45 – 13.00	Partner Presentation		Royal Society of Chemistry (RSC) Dr. Andrew Shore	
13:00–14:00	Lunch			





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14:00–16:00	Parallel Session I (Auditorium)		Parallel Session I (BS2)	
	Session Chair: Dr. Ruth Omole		Session Chair: Dr. Esther Nthiga	
	Session Rapporteur: Dr. Solomon Omwoma		Session Rapporteur: Dr. John Wanjohi	
	Presenter	Title	Presenter	Title
14.00 – 14.20	Guest Speaker Prof. Naumih Noah Associate Professor of Analytical/Bioanalytical Chemistry, USIU-Africa	Nanostructured Polymer Membranes for Enhanced Water Filtration in Kenya	Guest Speaker Dr. Lucy Kiruri Senior Lecturer, Computational Chemistry & Biophysics, Kenyatta University	Deep Learning-Accelerated Discovery and QM/MM Characterization of Novel Phytochemical Inhibitors Targeting the Mycobacterium tuberculosis Essential Secretome
14.20 – 14.35	Assoc. Prof. Emmanuel E. Etim Department of Biochemistry, Federal University of Technology Ikot Abasi, Nigeria	Redefining Proton Affinity for Heteronuclear Molecular Species: Quantum Chemical Insights	Prof. Emmanuel Iwuoha Professor of Chemistry, University of Western Cape, Cape Town, South Africa	Macrophage-capping Protein (CapG) Nanobody-Immunosensor
14.35 – 14.50	Ndivhuwo Raymond Tshiluka Department of Chemical Sciences Faculty of Science	In-Silico study of new Sulfonyl urea Analogues as Potential Anti-Diabetic Agents: ADMET, Molecular Docking and Dynamics, MMGBSA and DFT Approach	Thozamile Wilfred Mabusela Department of Chemistry, University of the Western Cape, Bellville, South Africa.	South African Medicinal Plants – Some Phytochemical and Biological Studies
14.50 – 15.05	Parfait Kabwit Rubuz Institute Charles Gerhardt Montpellier, Univ. Montpellier, CNRS, ENSCM, France.	Mechanochemical synthesis of a silylated chitosan hybrid material for sustainable water decontamination	Mercy Njeri Nduni Faculty of Science, School of Chemistry, University of Bath, BA2 7AY, Somerset, United Kingdom.	Metal Halide Perovskites and their Applications in Solar Cells
15.05 – 15.20	Nompetshehi Indiphile Institute for Nanotechnology and Water Sustainability (iNanoWs), College of Science, Engineering and Tech, Uni. of South Africa	Tailoring Electrode Performance with $\text{Mn}_{101}(\text{Fe})\text{-CQD-TiO}_2$ ternary composite for superior stripping of toxic metal ions	Jane Ndungu Chemistry Department, Kenyatta University	Toxicity Assessment of Euphorbia candelabrum Extracts Against Fall Army Worm (<i>Spodoptera frugiperda</i>)
15.20 – 16.00	Health Break			

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DAY 2: 10th September, 2026

Time (EAT)	Activity	Auditorium
08:30–9.00	Registration	
9.00–9:10	Day 1 Recap	Dr. Erick Masika
	Session Chair	Prof. Austin Aluoch
	Session Rapporteur	Dr. Erick Masika
9.10 –9.40	Plenary Lecture III - (Online) H.E. Muhammad Iqbal Choudhary Distinguished National Professor of Bioorganic and Natural Product Chemistry, Coordinator General OIC -COMSTEC, Senior Honorary Advisor at the International Center for Chemical and Biological Sciences, and TWAS Vice President (Central & South Asia)	Biocatalytic, Phytochemical, and Synthetic Chemistry Approaches to Drug Discovery
9.40–9:50	Partner Presentation	Merck: Sophie Gulavic
9:50– 10:20	Plenary Lecture IV - (Online) Prof. Evelina Colacino Associate Professor of Organic and Green Chemistry, at the University of Montpellier, France	Sustainable Preparation of WHO Essential Medicines by Mechanochemistry
10.20 –10.30	Partner Presentation	Elsevier: Ghazy Sherif
10.30 – 10.40	Partner Presentation	Springer: Clifford Chuwa
10.40 – 11.10	Health Break	
11.10 – 13.10	Parallel Session II (Auditorium)	Parallel Session II (BS2)
	Session Chair:	Dr. Eunice Nyawade
	Session Rapporteur	Dr. Geoffrey Otieno
	Presenter	Title
11.10 – 11.30	Guest Speaker Prof. Martin Onani Professor of Inorganic Chemistry and Nanochemistry at the University of the Western Cape (UWC)	Guest Speaker Prof. Chrispin Kowenje Professor and Academic Researcher at Maseno University
11.30 – 11.45	John Kiriimi Mayau Department of Chemistry, Kenyatta University, P. O.	Jonathan Mwanda University of Nairobi, Kenya.
		Key Development Milestones in Relation to Water Treatment Methods in Africa Electrochemical Conversion of CO ₂ to Functional Carbon Microspheres in Molten

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	Box 43844-0100, Nairobi, Kenya.	antibacterial activity of extracts of aloiampelos ciliaris		Carbonates for Energy and Materials Applications
11.45 – 12.00	Dr. Samuel N. Ndung'u Department of Biological and Physical Sciences, Karatina University	Silicon Nitride Bioceramic: Synthesis and Wastewater Treatment	Brigit Adhiambo Department of Chemistry, Jomo Kenyatta University of Agriculture and Technology	Ruthenium II Complexes of Thiosemicarbazones
12.00 – 12.15	Solomon Omwoma Lugasi/ Cleopas Tiema Department of Physical Sciences, Jaramogi Oginga Odinga University of Science and Technology, Bondo Campus	Manganese (II)-Anderson Polyoxometalate Mediated Bioethanol Production from Sugarcane Cake	Elkanah Ogora Department of Chemistry, Dedan Kimathi University of Technology	Synthesis and Characterization of Modified Alginate Biopolymer Sorbents for the Removal of Methylene Blue and Cobalt (II) from Aqueous Solution
12.15- 12.30	Uraku Anayo Joseph Ebonyi State University Abakaliki, Nigeria.	Analysis of the anti-Amyotrophic Lateral Sclerosis potential of Carica papaya phytochemicals by network pharmacology	Kehinde O. Olorunfemi Federal University of Technology, Akure, Ondo State, Nigeria	Phenolics: Plastic-associated Organic Contaminants
12.30 – 12.45	Hillary Kipruto Department of Chemistry, Kisii University	Innovative Bioremediation of Heavy Metals	Abdoulaye Dramé Chemistry Department, Faculty of Science and Technology Cheikh Anta Diop University of Dakar Senegal	Improvement of the oxidative stability and nutritional quality of peanut oil from Senegal by Moringa Oleifera L. leaves
12.45 – 14.00	Lunch Break			

Green up!

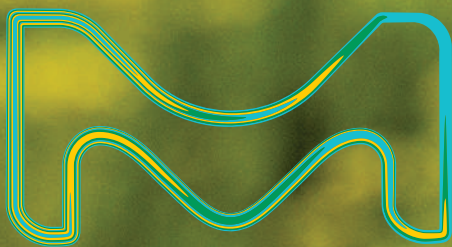
Sustainable and safer
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Greener Solvents for greener future

The future of solvents needs to be safer for humans and the environment, while preserving natural resources. It must also meet the high standards and reliability required by industry. Our range of greener solvents align with the 12 Principles of Green Chemistry, providing you with safer and more sustainable options to some of the REACH restricted solvents. Traditional solvents are often associated with a high environmental footprint. Switch to greener solvents for a simple way that helps reach your sustainability goals without compromising on quality.

Greener Chromatography

These alternative solvents replace more hazardous solvents that are commonly used in chromatography. Chromatography is one of the most prevalent uses of solvents in the lab and switching to greener alternatives can be a significant contributor to reducing your environmental impact and increasing safety in your lab.



Greener Alternative Drop-In Replacements

These classic solvents offer the same high standards as petroleum-based solvents, but have a much lower carbon footprint and safer handling. They are free of the hazardous by-products of petroleum manufacturing, such as benzene, aldehydes, and ethers. They are also tested for renewable, bio-based carbon (ASTM Standard D6866-16).

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14:00 - 16:05	Parallel Session III (Auditorium)		Parallel Session III (BS2)	
	Session Chair:	Dr. Lucy Kiruri	Session Chair	Prof. Keng'ara
	Session Rapporteur:	Elkanah Ogora	Session Rapporteur	Dr. Emily Cheshari
	Presenter	Title	Presenter	Title
14.00 – 14.20	Guest Speaker Prof. Modou Fall Department of Chemistry, Faculty of Sciences and Technics, Cheikh Anta Diop University, Dakar, Senegal	Design and optimization of laser-induced graphene electrodes for heavy metal ions sensing in water.	Guest Speaker Dr. Selly Kimosop The Ministry of Environment, Climate Change and Forestry NHIF Building, Ragati Road Upperhill, Nairobi	Turning Environmental Research into Actionable Policy in Africa—Lessons from Kenya's "Missing Link" and the Era of Autonomous Science
14.20 – 14.35	Prof. Latifa Latrous Laboratoire de Chimie Minérale Appliquée (LR19ES02), Faculté des Sciences de Tunis	Reinventing Sample Preparation for a Sustainable Analytical Future	Francis Maingi Mukora Chemistry Department, Department of Science Technology and Engineering, Kibabii University, Bungoma.	Struvite Precipitation from Wastewater and Hot Spring Water for Fertilizer Use
14.35 – 14.50	Tonny Kinyua Gitonga Department of Chemistry, Jomo Kenyatta University of Agriculture and Technology	Synthesis of New Salicylaldehyde-based Schiff Base Palladium (II) Complexes and Evaluation of their Antimicrobial/Antioxidant Activities	Dr. Ruth Omole Department of Chemical Science and Technology, Technical University of Kenya	Ethnobotanical Knowledge as a Pathway to Antimalarial Drug Discovery
14.50 – 15.05	Shem Ongechi Nyang'ate Department of Chemistry, Dedan Kimathi University of Technology	Synthesis and Characterization of N'N-Bidentate Half-Sandwich Ruthenium (II) Arene Complexes for Biological Evaluation	Joseck Olukusi Alwala Department of Science Technology and Engineering, Kibabii University	Characterization of Essential Oils of Mangifera indica from Kenya
15.05 – 15.20	Dr. Madison Lasich School of Engineering, University of KwaZulu- Natal, Durban, South Africa	Extended Flory-Huggins modelling of endocrine disruptor-alginate interactions	Adedapo Sunday Adeyinka Department of Chemical Sciences, University of Johannesburg	Developing a New Generation of Non-Heme Iron (II) Complexes as Catalysts for Alkane Oxidation

15.20 – 15.35	Sandhya Sarasamma Chemistry Department, University of Dar es Salaam	Green Synthesis of Iron Oxide Nanoparticles using a Mixture of Moringa oleifera and Hibiscus sabdariffa Extracts and their Application in Photocatalytic Degradation of Methylene Blue	Onyango Sarah Shiriebo Department of Chemistry, Kenyatta University, Nairobi, Kenya	Assessment of water Quality from sections of River Chania adjacent to Leather Industries of Kenya Limited, Kiambu County-Kenya
15.35– 15.50	Dr. Esther Nthiga Department of Chemistry, Dedan Kimathi University of Technology	Photodynamic Investigation of Nitrogen-Doped Graphene Quantum Dots	Lydia N Njale Simiyu Department of Chemistry, School of Science, Dedan Kimathi University of Technology	Activated carbon from macadamia nutshells for removal of p-Nitrophenol from real wastewater: Thermodynamic evaluation
15.50-16:05	Paul M. Munene Department of Chemistry, Dedan Kimathi University of Technology	Quality characteristics of drinking water from selected boreholes in Lodwar Municipality, Turkana County, Kenya	Amine Ezzahi Faculty of Sciences and Techniques of Mohammedia (FSTM) Hassan II university of Casablanca	Coriander-Mediated Synthesis of Fe Nanoparticles for Eco-Friendly Dye Removal



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16:05 – 17.30	Health Break and Poster Session		
	Assessor: Dr. Jason Mzuga	Assessor: Dr. Emily Chesari	Assessor: Dr. Solomon Omwoma
	P1: Akinyi Hattie Onzee	Evaluation of Microplastics Retention in Nanostructured Polyamic Acid Membrane Catridges	
	P2: Mwaiwa Kivunzya	Synthesis of Hybrid Polymeric Nanozyme Membranes for Emerging Contaminant Removal	
	P3: Gwibakazi Feleni	Lanthanide-Pillared Ti3C2Tx MXene with Expanded Interlayer Spacing for High-Rate Aqueous Sodium-Ion Batteries	
	P4: Niaboula Dembele	Mineral composition, phytochemical profile of leaves, bark and roots of Detarium microcarpum Guill. &Perr., Fabaceae, harvested in Mali	
	P5: Miché Desline Meyer	Biocompatibility and anti-cancer effects of gold nanoparticles synthesized from aqueous extracts of Honey bush in combination with chemotherapeutic drugs	
	P6: Evans Ochieng Odhiambo	Evaluation of Chemical Composition of Waters and Succulents from Mt. Suswa in Potential Valorization of Cryo-Mesophilic Biogas Systems	
	P6: Seth Osumba	Photocatalytic Degradation of Pesticides Residue: Case Study of MoO3 Catalyzed Degradation of Lambda-Cyhalothrin	
	P7: Vacel Kirima	Synthesis of Nickel-Platinum Bimetallic Nanoparticles on Glassy Carbon Electrode for Enhanced Methanol Electro – Oxidation	
	P8: Marylyn Gathiru	Green Synthesis of Ag/TiO2 Nanocomposites Using Watermelon Rind Extract to Enhance Solar Disinfection (SODIS) for Safe Drinking Water in Africa	
	P9: Boiketlo Hlabane	Microplastic contamination in surface waters of the River Nile in Sudan: Physical and chemical characterization	
	P10: Theophilus D. Asamoah	Acridone Alkaloids from Zanthoxylum zanthoxyloides demonstrate Anti-Candida, Anti- Biofilm and Antifungal-Resistance Modifying Activities against Drug-Resistant Candida albicans, Candida glabrata and other Non-albicans Candida Species	
P11: Peter Gitau Muruguru	Optimization of Electricity Production Using a Hybrid System of Solar Photovoltaics, Microbial Fuel Cells, and Anaerobic Digestion for Electricity Generation, Biogas Production, and Biofertilizer Production and Characterization		
P12: George Rakwa	Geochemical Characterization and Safety Assessment of Emboliay Natural Salt Licks for Bos taurus in Narok County, Kenya		
17.30 – 20.00	Gala Dinner (SHSS Rooftop)		



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DAY 3: FASC Congress (11th September, 2026) - Auditorium

Time	Activity	
08.30 – 9.00	Registration	
9.00 – 10.30	Session Chair:	Prof. Neil Coville
	Session Rapporteur:	Prof. Modou Fall
	Presenter	Title
9.00 – 9.30	Plenary Lecture V Prof. Vincent Nyamori	Carbon-Based Nanocomposites for Fourth-Generation Solar Cells.
9.30 – 10.00	Guest Speaker Dr. Christine Nagawa	Harnessing Sustainable Chemical Systems: Integrating Green Catalysis and Bio-Based Feedstocks for a Circular Future
10.00 – 10.30	Guest Speaker Dr. John Mumbo	Policy, Legal, and Institutional Frameworks for Safe and Sustainable Chemicals Management in Kenya
10:30–11:00	Health Break	
11:00–12.00	Awards and Closing Ceremony	
12.00–14:00	Lunch	
14:00–16:00	FASC AGM	

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