



OWSD SOUTHWEST ZONAL CONFERENCE
OBAFEMI AWOLOWO UNIVERSITY, ILE-IFE

presents

**2ND BIENNIAL
SOUTHWEST**
ZONAL CONFERENCE

THEME:

**SYSTEMS THINKING
AND INNOVATION:**

*Transforming Challenges
into Opportunities for
National Development*



1st - 4th September, 2026

Conference Program Schedule & Venues

31 st Aug 2026	1 st Sept 2026	2 nd Sept 2026	3 rd Sept 2026	4 th Sept 2026
Day 0	Day 1	Day 2	Day 3	Day 4
Arrival & Venue: BOOC	Workshop Session 9.00 – 12.00 Venue: ACE auditorium	Plenary Session 1 9.00 – 11.00 Venue: BOOC	Plenary Session 2 9.00 – 11.00 Venue: BOOC	Departure
	Collection of registration materials	Tea Break 11.00 – 11.30	The SYNAPSE Project 11.00 – 11.30 Venue: BOOC	
	Lunch Break 12.00 – 1.00	Technical Session 1 11.30 – 1.30	Tea Break 11.30 – 12.00	
	Opening Ceremony 1.00 – 4.00 Venue: ACE auditorium	Poster Session 1 1.30 – 2.00	Technical Session 3 12.00 – 2.00	
	Cocktail 4.00 – 6.00 Venue: ACE Garden	Meal Time 2.00 – 2.30	Poster Session 3 2.00 – 2.30	
	Collection of registration materials	Poster Session 2 2.30 – 3.00	Meal Time 2.30 – 3.00	
	Hotel Drops	Technical Session 2 3.00 – 5.00	Closing Ceremony/AGM 3.00 – 4.30 Venue: BOOC	



HIS EXCELLENCY
BOLA AHMED TINUBU GCFR
PRESIDENT, COMMANDER-IN-CHIEF OF THE ARMED FORCES
FEDERAL REPUBLIC OF NIGERIA



HIS EXCELLENCY
ADEMOLA JACKSON NURUDEEN ADELEKE
EXECUTIVE GOVERNOR OF OSUN STATE



PROF. ADEBAYO SIMEON BAMIRE

VICE CHANCELLOR
OBAFEMI AWOLOWO UNIVERSITY, ILE-IFE



HER EXCELLENCY
ERELU NGOZI ADELEKE
WIFE OF THE EXECUTIVE GOVERNOR, OSUN STATE
{SPECIAL GUEST}



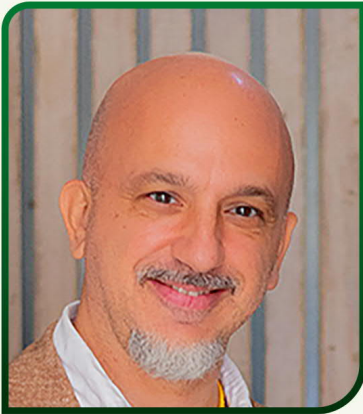
PROFESSOR FOLASADE OLAJUYIGBE
NATIONAL CHAIRPERSON, OWSD NIGERIA



**ENGR. PROF. OLUWATOYIN ADENIKE
OLASEINDE** MNSE, FNMS
OWSD SOUTH WEST ZONAL COORDINATOR



PROFESSOR R. C. GEORGE
CHAIRPERSON, OWSD, OAU, ILE IFE BRANCH



KEYNOTE SPEAKER

STEFANO ARMENIA –

Short Bio 2026

Sustainability, Kybernetes, Frontiers in Sustainability – Sustainable Organizations, Journal of Simulation, International Journal of Applied Systems Sciences, etc.). He is author of several papers in top-ranked journals (i.e. Technological Forecasting and Social Change, Futures, Accounting Auditing & Accountability Journal, International Journal of Management Education, Decision Support Systems) and has been involved in various initiatives and research activities on sustainable development and other environmental issues (i.e. Climate Change, Carbon Capture & Sequestration, Urban Sustainable Development, etc.) as well as with the translation from English of a few sustainability best sellers (i.e.: “Thinking in Systems” by Donella Meadows; “The Limits to Growth: a report to the Club of Rome” by Meadows, Meadows, Randers, Behrens III). He has led the Climate Action Simulation Exercise with EnROADS on several previous occasions, both at public and private level. He has participated as organizer of events into several editions of the “Sustainability Festival” (organized by ASVIS). Among his previous working experience, he has acted as Bid Manager, Project Manager and Professional Consultant in several fields, both in the Public Administration and Industrial environments.

More about Prof. Stefano Armenia:

- Rector's Delegate to Internationalisation and to the RUS Network
- Ambassador of the European Climate Pact (EuCliPa)
- Associate Member of the Club of Rome
- President (2024-2027) of SYDIC, the System Dynamics Italian Chapter (<http://www.systemdynamics.it/>)
- Former Policy Council Member and VP Chapters & SIGs of the System Dynamics Society (2019-2022)
- Editorial Board of IJOTB, the International Journal of Organization Theory & Behaviour (Emerald-Insight)
- Editorial Board of SYSTEMS (MDPI)
- Editorial Board of SYSTEM DYNAMICS REVIEW (Wiley-Blackwell)
- Editorial Board of Frontiers in Sustainability (Sustainable Organizations) (FRONTIERS)
- Former (2016-2020) Co-Editor in Chief of KYBERNETES (Emerald-Insight)
- Guest Editor in various top-ranked Journals (i.e. IJASS, JOS, AGSY; SYSTEMS, etc.)

Stefano Armenia (Roma, Italy – 1971) is an Associate Professor in Business Organizations (ECON-08/A) and in the Analysis of Dynamical Systems at the Università Telematica degli Studi in Florence, where he teaches “Business Organizations”, “Marketing communication techniques” and “ESG and Sustainability”. He holds a degree in Computer Engineering, Industrial Automation & Control Systems, a Ph.D. in Business Engineering and a Master in Management and Business Administration. He has been visiting professor at the African University of Science and technology in Abuja (Nigeria) and the American University of Nigeria (Yola, Nigeria), where he has been teaching Systems Thinking and Systems Dynamics modelling and simulation of complex organizations. He also teaches in masters and other courses into various other national and international institutions. He is member of the System Dynamics International Society (SDS) since 2002, President of the System Dynamics Italian Chapter (SYDIC - the Italian Network of the SDS) since 2011 and member of the SDS Policy Council from 2014 to 2022, where he also acted as VP Chapters & SIGs. From 2014 to 2017 he has also been the IT & Communication Officer of the European Academy of Management. In 2021 he has obtained the national scientific status as associate professor in Business Organizations (ASN 2021, SSD: SECS-P/10, 3 out of 3 median indicators). His professional background includes extensive knowledge of main funding programs at national (Italian) and International level with a specific experience on research programs. In his research work, he deals with the analysis of complex systems dynamics in many fields: sustainable development, cybersecurity, critical infrastructure protection, logistics and sustainable transportation, finance, technological innovation, policy modelling and assessment of the impacts of innovation and new technologies (Digital Transformation) on organizational processes and on society. He has been or currently is Associate or Guest editor in several other scientific journals (IJotb, Systems, System Dynamics Review, Systems Research and Behavioural Science,



BIENNIAL SOUTHWEST ZONAL CONFERENCE

THEME- SYSTEMS THINKING AND INNOVATION:
Transforming Challenges into Opportunities for National Development,
1st - 4th September, 2026

Opening Ceremony

Time	Activity
12.45 – 1.00 p.m.	Introduction and Recognition of Dignitaries
1.00 - 1.05 p.m.	National and University Anthems
1.05 – 1.15 p.m.	Welcome Address: Chair, Local Organizing- Prof. (Mrs) Aderonke A. OKOYA
1.15-1.30 p.m	Addresses: a. OWSD National President- Prof. Folasade M. Olajuyigbe b. OWSD South West Coordinator- Prof. M. O. Olaseinde c. OWSD OAU Chapter Chairperson- Prof. R. C. George
1.30 -1.40 p.m	Goodwill Messages
1.40-1.50 p.m	Vice Chancellor's Address& Opening of the Conference- Prof. Adebayo Simeon Bamire
1.50 - 2.00 p.m	Special Guest of Honours' address- Her Excellency, Erelu Ngozi Abeni Adeleke
2.00 - 2.40 p.m	Keynote Speaker – Prof. Stefano Armenia (Italy)
2.40 -2.55 p.m	Presentation of Awards- Prof. Folasade M. Olajuyigbe
2.55 – 3.05 p.m	Inauguration of OWSD University of Medical Sciences
3.05 – 3.10 p.m	Vote of Thanks – Prof. K. A. Taiwo
3.10 – 3.15 p.m	Announcements – Prof. (Mrs) Aderonke A. OKOYA
3.15 - 3.45 p.m	Meet and Greet
3..45 - 6.00p.m	Cocktail



NATIONAL ANTHEM

Nigeria, we hail thee,
Our own dear native land,
Though tribe and tongue may differ,
In brotherhood we stand,
Nigerians all, and proud to serve
Our sovereign Motherland.

Our flag shall be a symbol
That truth and justice reign,
In peace or battle honour'd,
And this we count as gain,
To hand on to our children
A banner without stain.

O God of all creation,
Grant this our one request,
Help us to build a nation
Where no man is oppressed
And so with peace and plenty
Nigeria may be blessed.

THE PLEDGE

I pledge to Nigeria my Country
To be faithful, loyal and honest
To serve Nigeria with all my strength
To defend her unity
And uphold her Honour and Glory
So help me God.



GREAT IFE ANTHEM

Great Ife! Great Ife!
Africa's most beautiful campus.
Conscious, vigilant, progressive,
Aluta against all oppression.
Forward ever, backward never,
For learning and culture,
Sports and struggle.
Great Ife! I love you,
There is only one Great Ife in the universe,
Another Great Ife is a counterfeit.
Great! Great! Great! Great! Great!



Opening Address Delivered by the Chairperson, Central Organising Committee for the 2nd Biennial Conference and General Meeting of The Organization for Women in Science for the Developing World (OWSD) Southwest Zone, Nigeria

Protocol

Distinguished guests, esteemed scholars, accomplished professionals, development partners, members of the Organization for Women in Science for the Developing World (OWSD), gentlemen of the press, ladies and gentlemen.

It is with immense pleasure, profound gratitude and great optimism that I warmly welcome you all to the 2nd Biennial Conference and General Meeting of the OWSD Southwest Zone. As Chairperson of the Central Organising Committee for this year's conference, I am deeply honoured to stand before this distinguished gathering of scholars, innovators, policymakers, entrepreneurs, researchers and advocates who are committed to advancing science, technology and sustainable development in our nation and beyond.

This conference comes at a critical point in our national journey—a time when societies across the globe are confronted with complex and interconnected challenges. From climate change and environmental degradation to food insecurity, public health concerns, educational inequalities, technological disruptions and economic uncertainties, the issues before us require solutions that transcend traditional boundaries and definitive approaches.

It is therefore highly fitting that the theme for this conference is **“Systems Thinking and Innovation: Transforming Challenges into Opportunities for National Development.”**

This theme challenges us to view problems not as isolated incidents but as interconnected components of larger systems. Systems thinking enables us to understand relationships, patterns, and root causes, while innovation empowers us to create practical, scalable, and sustainable solutions. Together, they provide a powerful framework for addressing the multifaceted challenges facing our communities and nation.

As women in science and development, we occupy a unique position in this transformation agenda. Across laboratories, classrooms, industries, government institutions and communities, women continue to make remarkable contributions to knowledge creation, technological advancement and social innovation. Yet, we recognize that much more remains to be done to achieve inclusive participation, equitable opportunities and meaningful representation in decision-making spaces.

This conference therefore serves as more than an academic gathering. It is a platform for dialogue, collaboration, mentorship, knowledge exchange, and collective action. Over the next four days, we will engage in stimulating keynote presentations, technical sessions, panel discussions, networking events and strategic deliberations aimed at generating ideas and partnerships capable of driving sustainable national development.

I encourage every participant to actively contribute to these conversations. Let us leverage our diverse expertise, experiences and perspectives to develop innovative approaches that can address societal challenges and unlock new opportunities for growth and prosperity. Let us strengthen interdisciplinary collaborations and build networks that extend beyond the duration of this conference.

As we deliberate on the future, we must also invest in the next generation. Our responsibility extends to mentoring young women and girls, inspiring them to pursue careers in science, technology, engineering, mathematics, and innovation. Their success will determine the sustainability of our efforts and the future competitiveness of our nation.

I wish to express my sincere appreciation to the leadership of the OWSD Southwest Zone, members of the various organizing committees, our sponsors, partners, institutions, keynote speakers, resource persons, volunteers, and all stakeholders whose dedication and support have made this conference possible. Your commitment demonstrates the collective strength of our community and our shared belief in the transformative power of science and innovation. I also expressed our profound gratitude to the management of Obafemi Awolowo University, Ile-Ife; our host institution for this year's conference.

I also extend a special welcome to participants who have traveled from various institutions and locations to be part of this important event. We are delighted by your presence and look forward to the valuable contributions you will make to our deliberations.

As we commence this conference, let us embrace the spirit of collaboration, creativity and excellence. Let us challenge assumptions, explore innovative pathways and work together to transform obstacles into opportunities. Above all, let us reaffirm our commitment to using science and innovation as instruments for sustainable development, social progress, and national transformation.

I am confident that the discussions and outcomes of this conference will inspire new ideas, strengthen partnerships, and contribute meaningfully to addressing the developmental challenges of our time.

On behalf of the Central Organising Committee, I officially welcome you to the 2nd Biennial Conference and General Meeting of the OWSD Southwest Zone and wish you a productive, enriching, and memorable conference.

Thank you, and may our deliberations be fruitful and impactful.

Long live OWSD Southwest Zone.
Long live women in science and innovation.
Long live our nation, Nigeria.



Welcome Address by **PROFESSOR FOLASADE OLAJUYIGBE**

THE NATIONAL CHAIRPERSON, OWSD NIGERIA

Protocol

As National Chairperson of the Organization for Women in Science for the Developing World (OWSD) Nigeria, it is my profound honour and great pleasure to welcome you to the 2nd South-West Zonal Biennial Conference at the prestigious Obafemi Awolowo University, Ile-Ife. On behalf of the National Executive Committee and the entire membership of OWSD Nigeria, I sincerely thank the Vice-Chancellor, Professor Adebayo Simeon Bamire, and the University Management for graciously hosting us. I also commend the Southwest Zonal Coordinator, Engr. Professor Oluwatoyin A. Olaseinde, the OAU Branch Coordinator, Professor, Reama George, the South-West Branch Coordinators, Chairperson, Local Organising Committee (LOC), Professor Aderonke A. Okoya and all members of the LOC, our partners and every OWSD member whose dedication has made this gathering possible.



Distinguished ladies and gentlemen, we gather not merely for another conference, but to exchange ideas, forge meaningful partnerships and explore how science, technology and innovation can help build a better Nigeria. This purpose lies at the heart of OWSD, a vibrant international network committed to empowering women scientists to address the challenges facing their communities and countries. OWSD promotes women's participation, visibility and leadership in science; provides training, mentoring and networking opportunities; supports women throughout their scientific careers; and advocates for gender equality in science and technology.

OWSD Nigeria brings this vision to life through a strong network spanning the six geopolitical zones. We connect, mentor and empower women scientists while strengthening their research and leadership capacities. We are equally committed to inspiring girls and young women to pursue careers in science, technology, engineering and mathematics and to making STEM more accessible, attractive and rewarding for them.

The continued expansion of our network demonstrates the growing impact of this commitment. I am delighted to report that OWSD Nigeria now has 51 branches nationwide, including four recently inaugurated at Federal University Oye-Ekiti, University of Delta, Ebonyi State University and University of Medical Sciences, Ondo. Each new branch represents more than institutional growth; it creates new opportunities for women scientists to connect, contribute, lead and thrive.

The theme of this conference, **"Systems Thinking and Innovation: Transforming Challenges into Opportunities for National Development,"** could not be more timely. The developmental challenges facing Nigeria are complex and interconnected. Issues such as food security, public health, climate change, energy, water, infrastructure, education, finance and public policy do not exist in isolation. Progress in one area often depends on coordinated action across several others.

Systems thinking therefore invites us to see the bigger picture, to look beyond isolated problems and understand the relationships, structures and patterns that sustain them. It reminds us that no discipline, institution or sector can solve Nigeria's challenges alone. As scientists, we must work with policymakers, industry leaders, entrepreneurs, communities and civil society to design inclusive, adaptable and sustainable solutions.

Innovation is not limited to sophisticated inventions or advanced technologies. It also means thinking differently, reorganising resources, improving processes and translating scientific knowledge into practical solutions. Innovation happens when we turn limitations into possibilities, local knowledge into scalable impact, and research findings into products, services and policies that improve lives.

The challenge before us is clear: we must move from diagnosing problems to designing solutions and from producing knowledge to creating measurable impact. We must ask how our research can strengthen national resilience, improve public health, advance food and energy security, support sustainable industry, protect our environment and expand opportunities for future generations.

NATIONAL CHAIRPERSON |

Women scientists are indispensable to this transformation. Our experiences and perspectives enrich scientific enquiry and help ensure that solutions reflect the realities of women, children, families and communities. When women participate fully in research, innovation and decision-making, science becomes more inclusive, solutions more responsive and national development more sustainable.

I encourage every participant to engage actively in the keynote address, plenary sessions, technical presentations, panel discussions and networking activities. Let us exchange ideas, initiate interdisciplinary collaborations and identify practical ways of translating our collective expertise into national impact.

Please permit me to particularly acknowledge our Special Guest of Honour, Her Excellency Erelu Ngozi Abeni Adeleke; our keynote speaker, Stefano Armenia; and our distinguished plenary speakers, Professor O.A. Olasode, Professor G.O. Ogunlusi, Dr O.G. Olomojobi, Head of Service of Ekiti State, and Professor Aina O. Adeogun, FAS. We are deeply honoured by your presence and sincerely appreciate the wealth of knowledge, expertise and experience you bring to this conference.

I trust that our deliberations will produce actionable recommendations, enduring partnerships and innovative solutions for national development. May this conference renew our determination to build a scientific community in which every girl and woman has the opportunity, support and confidence to thrive.

On behalf of OWSD Nigeria, I warmly welcome you all. I wish you a productive and memorable conference and a pleasant stay in the beautiful and historic city of Ile-Ife.

Thank you, and God bless you all.

Professor Folasade M. Olajuyigbe
National Chairperson, OWSD Nigeria



Welcome Address by

Engr. Prof. Oluwatoyin Adenike Olaseinde (MNSE, FNMS)

OWSD Southwest Zonal Coordinator

Protocols

Distinguished keynote speaker, esteemed plenary speakers, our Special Guest of Honour, Her Excellency, Erelu Ngozi Abeni Adeleke, National Chairperson of the Organization for Women in Science for the Developing World (OWSD), Nigeria Chapter, Prof. F. M Olajuyigbe, the Vice Chancellor of OAU, Prof. A. S. Bamire; All Vice Chancellors Present; the Principal officers of Obafemi Awolowo University, respected academics, researchers, innovators, students, sponsors, partners, Gentlemen of the Press, distinguished guests, ladies and gentlemen.

It is with immense joy and great honour that I warmly welcome you to the **2nd Biennial OWSD Southwest Zonal Conference, hosted by Obafemi Awolowo University, Ile-Ife.**

On behalf of the Organizing Committee, I sincerely thank every one of you for accepting our invitation and for joining us from different institutions, organizations, and communities across Nigeria and beyond. Your presence is evidence to our shared commitment to advancing science, technology, innovation, and sustainable development.

This year's conference is built around the timely and thought-provoking theme, **"Systems Thinking and Innovation: Transforming Challenges into Opportunities for National Development."** The carefully selected sub-themes reflect the breadth of today's global challenges and the limitless opportunities for science and innovation to create lasting impact. The complex challenges confronting our nation, whether in education, healthcare, climate change, food security, technology, or economic development cannot be solved in isolation. They demand integrated thinking,

multidisciplinary collaboration, and innovative solutions that cut across traditional boundaries.

We are especially honoured by the presence of our keynote speaker, **Professor Stefano Armenia**, whose expertise in systems thinking and system dynamics continues to shape global conversations on sustainability and complex problem-solving. We are equally privileged to welcome our distinguished plenary speakers and accomplished scholars, whose wealth of knowledge and experience will undoubtedly enrich our deliberations.

We extend our profound gratitude to our **Special Guest of Honour, Her Excellency Erelu Ngozi Abeni Adeleke**, for honouring this conference with her presence and for her unwavering support for education, women, and community development.

Special appreciation to the National Chairperson **Prof. F. M Olajuyigbe** for honouring us with your presence. To every researcher presenting a paper, every student participating, every sponsor, partner, volunteer, and member of the organizing committee, thank you for your dedication and contributions. This conference is possible because of your commitment and collective effort.

Over the next few days, we will engage in stimulating keynote presentations, insightful plenary sessions, technical discussions, and networking opportunities that will challenge our perspectives and inspire practical solutions. I encourage you to make the most of this conference. Participate actively in every session, ask thoughtful questions, exchange ideas freely, build new collaborations, and embrace the opportunity to learn from one another. Let us use this gathering not only to discuss challenges but also to co-create innovative pathways that will strengthen our institutions, empower our



communities, and contribute meaningfully to national development.

For every one of us let us ensure that we do not leave the conference without building both horizontal and vertical relationships. As the African proverb reminds us, **"If you want to go fast, go alone; if you want to go far, go together."** This conference embodies that spirit of collaboration, where diverse minds come together to generate transformative ideas for a better future.

Ladies and gentlemen, thank you once again for being here. As we officially commence this event, I wish you a productive, inspiring, and enjoyable conference experience. May the discussions we have, the ideas we generate and the connections we build contribute meaningfully to our respective professions and society at large.

Welcome, and thank you.



Welcome Address by **PROF. REAMA GEORGE**

*Branch Coordinator, OWSD Obafemi Awolowo University Branch
2nd OWSD Southwest Zonal Biennial Conference*

It is my great pleasure to warmly welcome you all to Obafemi Awolowo University, Ile-Ife, for the **2nd OWSD Southwest Zonal Biennial Conference**. On behalf of the OWSD OAU Branch, I sincerely thank every one of you for making the journey to be with us. Your presence reflects our shared commitment to advancing science, fostering collaboration, and empowering women to make meaningful contributions to national development.

As we gather under the theme, **"Systems Thinking and Innovation: Transforming Challenges into Opportunities for National Development,"** I encourage us to use this conference as a platform to exchange ideas, build lasting collaborations, mentor the next generation of scientists, and develop innovative solutions to the challenges facing our society.

At OWSD Nigeria, our vision is **to build an inclusive network of women scientists whose knowledge and leadership drive a prosperous and resilient Nigeria**, while our mission is **to empower women in science through capacity building, mentorship, and collaborative research for national development and social impact**.

These ideals are reflected in our activities, which include capacity-building programmes, research mentoring, STEM engagement, community outreach, networking, and scientific conferences such as this.

One initiative that is particularly dear to the OAU Branch is our **School Outreach Programme**. For the past nine years, we have visited thirteen secondary schools, inspiring girls to pursue STEM careers. More recently, we redesigned the programme to focus on one of the greatest barriers to STEM participation—the fear of mathematics. Our goal is to help students see mathematics not as an obstacle, but as a powerful tool that opens doors to science, engineering, and innovation.

Unfortunately, limited resources have meant that our redesigned programme has been sustained in only two schools—Ife Girls High School and Seventh-day Adventist High School. As our first cohort prepares to enter Senior Secondary School, we hope to support indigent students with mathematics textbooks, beginning with Ife Girls High School. Today, I make a simple appeal.

To our distinguished award recipients, our Champions for Change, our Life Members, our Partners, Sponsors, and every member of the OWSD family, we invite you to become part of this journey. Help us expand this programme. Help us reach more schools. Help us ensure that no brilliant young girl abandons her dream because she lacked encouragement, confidence, or the basic learning resources she needed.

If we truly believe in empowering women in science, then our work must begin long before university. It must begin in our classrooms, in our communities, and in the hearts of young girls who are still discovering what they can become.

That is the future we are working towards.

Over the next few days, I encourage you to participate actively in the scientific sessions, share your experiences, build new collaborations, and enjoy the fellowship that makes OWSD such a unique community.

Once again, thank you for honouring our invitation. We hope your stay in Ile-Ife will be productive, memorable, and enjoyable.

Welcome to Obafemi Awolowo University.

Welcome to Ile-Ife.

Welcome to the **2nd OWSD Southwest Zonal Biennial Conference**.

Thank you, and God bless you all.





Welcome Address by The Vice Chancellor (Chief Host)

Opening Protocols

Distinguished Chairpersons of OWSD Southwest Zone, Esteemed members of the Organization for Women in Science for the Developing World, our respected keynote speakers, invited guests, colleagues, students, ladies and gentlemen:

It is with immense joy and pride that I welcome you all to Obafemi Awolowo University, Ile-Ife, for this 2nd Biennial Conference and General Meeting of OWSD Southwest Zone, Nigeria. We are deeply honoured to host this gathering of brilliant minds, trailblazers, and visionaries committed to advancing science, innovation, and national development.

Acknowledgment of OWSD's Role

OWSD has consistently championed the empowerment of women in science, technology, engineering, and mathematics across the developing world. Your work has opened doors for countless women scientists, ensuring that their voices, ideas, and innovations are not only heard but also shape the trajectory of our societies. Hosting this conference here at OAU is a testament to our shared commitment to excellence, inclusivity, and transformative impact.

On the Theme

The theme of this conference—*Systems Thinking and Innovation: Transforming Challenges into Opportunities for National Development*—is both timely and profound.

- **Systems Thinking** reminds us that the challenges we face—whether in education, health, environment, or technology—are interconnected. Solutions must therefore be holistic, collaborative, and sustainable.

- **Innovation** is the engine that drives progress. It is the bridge between knowledge and application, between ideas and impact.

Together, systems thinking and innovation provide us with the tools to reframe obstacles as opportunities, to turn scarcity into creativity, and to transform national challenges into pathways for growth.

Nigeria's Development Context

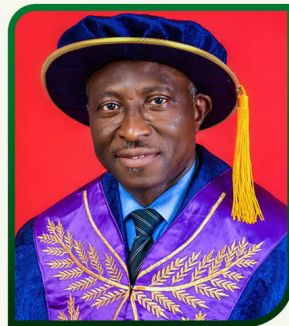
Nigeria, like many developing nations, faces pressing challenges:

- Climate change and environmental degradation,
- Public health crises,
- Infrastructural gaps,
- Educational inequalities,
- And the urgent need for technological advancement.

Yet within these challenges lie opportunities. With systems thinking, we can design integrated solutions that address root causes rather than symptoms. With innovation, we can harness science and technology to leapfrog barriers and accelerate national development.

The Role of Women in Science

Women scientists are central to this transformation. Their perspectives enrich research, their resilience drives discovery,



and their leadership ensures inclusivity. At OAU, we are proud to support initiatives that encourage women in STEM, and we remain committed to nurturing the next generation of female innovators who will redefine Nigeria's future.

Call to Action

As we deliberate over the next few days, let us:

- Forge collaborations across disciplines and institutions.
- Translate research into policies and practices that directly benefit our communities.
- Mentor and inspire young scientists, ensuring that the pipeline of talent remains strong and diverse.
- Commit ourselves to building a Nigeria where science and innovation are not luxuries but necessities for national development.

Closing

On behalf of Obafemi Awolowo University, I extend my heartfelt gratitude to OWSD Southwest Zone for choosing our institution as the host of this landmark conference. May our discussions be fruitful, our collaborations enduring, and our impact transformative.

I wish you all a successful and inspiring conference.

Thank you, and welcome to Great Ife, Oba Awon University



Citation of the wife of the Governor and United Nations Peace Ambassador, Erelu Ngozi Abeni Adeleke,

founder of Esther Adeleke Humanitarian Foundation

Ambassador Erelu Ngozi Abeni Adeleke is the esteemed wife of the governor of Osun State. Born five decades ago in Dimoji Obokwe, Mbieri township, Mbaitoli, Imo state, she has many awards for her outstanding contributions in various fields.

Education:

She holds a Bachelor of Science (B.Sc) degree in Psychology from the University of Nigeria, Nzuka and a Master's degree (MBA) in Advertisement and Public Relations from Imo State University, Owerri.

Professional Background:

Ambassador Ngozi Adeleke boasts an impressive career in banking, spanning over two decades. Her journey began with her mandatory Youth Service at Societe Generale Bank where her exceptional work ethic and dedication earned her a retention offer, marking the commencement of her illustrious banking career. She has since held various roles at banking institutions including Eagle Bank, Gulf Bank, Hallmark Bank, Fin Bank, UBA and Union Bank. This is a demonstration of her versatility, expertise and commitment to excellence in the financial sector. Her extensive experience has equipped her with a profound understanding of the banking industry, fostering a unique ability to drive growth, innovation and strategic leadership.

Philanthropy:

As a philanthropist, she has made significant impacts through her foundation, the Esther Adeleke Humanitarian Foundation, empowering countless individuals in Osun State and beyond.

Also, Ambassador Erelu Ngozi Adeleke, affectionately known as Mummy Triplets, has earned a reputation for her remarkable philanthropy and kindness towards triplets born within the state. For over a year, she has consistently demonstrated her generosity by providing substantial financial support, thoughtful gifts and

unwavering care to these special families. Her selfless dedication to their well-being has brought joy and relief to numerous triplet families.

Awards and Recognition:

Ambassador Erelu Ngozi Abeni Adeleke has received numerous prestigious awards and honours, acknowledging her outstanding contributions and impact in various fields. Some of her notable awards include:

1. OSRRA Award by the Ooni of Ife, recognizing her exceptional leadership and community service.
2. International Breweries PLC Award, honouring her achievements in the corporate sector.
3. Crown Royals Award, acknowledging her excellence and distinction in her profession.
4. United Nations Peace Ambassador Award, recognizing her dedication to promoting peace and sustainable development.
5. Induction as Fellow, in Nig Books of Records
6. University of Nigeria, Nzuka Alumni Award, honouring her achievements and loyalty to her alma mater.
7. Award of excellent leadership as a Matron to African Weaving Festival (AWeF).
8. Award of Excellence for commitment and passion for African Culture and Women Emancipation and Development at the 2nd Pan-Afrika Drum Festival, Canada
9. Leadership Award of Excellence from Chartered Institute of Management and Leadership (CIML).
10. Most Outstanding First Lady of the year, by Buzz News Best Award .
11. Outstanding Excellence in Social Empowerment at the Nigerian 65th Independence Awards Dinner 2025, held in New York, United States of America.
12. World Record Breakers Award, by GYMHA Australia.

To Mention but a few.



These accolades demonstrate Ambassador Adeleke's commitment to excellence, leadership and service to humanity, solidifying her reputation as a distinguished and accomplished individual.

Personal Life:

In addition to her professional achievements, Ambassador Ngozi Adeleke is a devoted Christian, a wife, and mother to her beloved children.



SPEECH BY HER EXCELLENCY, AMB. ERELU NGOZI ABENI ADELEKE,

***WIFE OF THE EXECUTIVE GOVERNOR OF OSUN STATE, AT THE OWSD SOUTHWEST ZONAL CONFERENCE,
OBAFEMI AWOLOWO UNIVERSITY, ILE-IFE***

The Chief Host,
Professor Oluwatoyin A. Olaseinde,
The Keynote Speaker,
Professor Stefano Armenia,
Invited Plenary Speakers, Distinguished Guests, Gentlemen of the
Press, Ladies and Gentlemen.

It is with great pleasure and a profound sense of honour that I join you today as the Special Guest of Honour at this Southwest Zonal Conference of the Organization for Women in Science for the Developing World (OWSD), with the theme: "Systems Thinking and Innovation: Transforming Challenges into Opportunities for National Development."

I commend the Organization for Women in Science for the Developing World (OWSD) for its unwavering commitment to advancing science, innovation, and the empowerment of women in research, technology, and development. The progress of any nation depends largely on how effectively it harnesses the talents, creativity, and ingenuity of its people, particularly its women and young people.

As a passionate advocate for education and youth empowerment, I firmly believe that combining academic excellence with practical skills is essential to building a self-reliant, innovative, and globally competitive generation. Technical and vocational education equips young people with the knowledge and competencies required to solve societal challenges, create sustainable opportunities, and contribute meaningfully to economic growth and national development.

Through my foundation, the Esther Adeleke Humanitarian Foundation, I have remained committed to promoting capacity building and entrepreneurship development. Last year, we organised a four-day Training of Trainers (TOT) programme for lecturers involved in entrepreneurship education across tertiary institutions in Osun State. The programme was designed to strengthen entrepreneurship education and equip educators with contemporary approaches to developing innovative graduates.

We also graduated about one hundred young women from our vocational training programme in beauty and cosmetology, providing each beneficiary with start-up tools to establish and sustain their own businesses.

In addition, my Foundation has empowered about three thousand women and young entrepreneurs across the three senatorial districts of Osun State through Small and Medium Enterprise (SME) development programmes. Beneficiaries, particularly young women between the ages of 18 and 35, have acquired practical entrepreneurial,

business management, and leadership skills through the first and second batches of the programme. These initiatives reflect our commitment to promoting economic independence, reducing unemployment, and fostering inclusive development.

I also wish to acknowledge the unwavering commitment of the administration of my dear husband, His Excellency, Senator Ademola Jackson Nurudeen Adeleke, the Executive Governor of Osun State, whose visionary leadership continues to prioritise quality education, youth empowerment, workers' welfare, and human capital development as key drivers of sustainable progress in our State.

As we deliberate throughout this conference, I encourage stronger collaboration among government, academia, industry, research institutions, and development partners. Such partnerships are essential to creating an enabling environment where innovation flourishes and where our young people can acquire the knowledge, skills, and opportunities required to thrive in an increasingly dynamic and technology-driven world.

To the distinguished women in science gathered here today, I urge you to continue breaking barriers, mentoring the next generation, and demonstrating that excellence knows no gender. Your contributions to science, innovation, and national development are invaluable, and your leadership will continue to inspire countless young girls to pursue careers in science, technology, engineering, and mathematics.

Together, through innovation, collaboration, systems thinking, and purposeful leadership, we can transform today's challenges into tomorrow's opportunities and build a more prosperous, inclusive, and sustainable Nigeria.

Thank you for your kind attention.

I wish you a fruitful and successful conference.

God bless the Organization for Women in Science for the Developing World (OWSD).
God bless Osun State.
God bless the Federal Republic of Nigeria.

Signed,

Her Excellency
Amb. Erelu Ngozi Abeni ADELEKE
Fellow, Nigerian Book of Records (FNBR)
Fellow, (CIML)
United Nations Peace Ambassador
Erelu Asoludero of Erinmo Kingdom
Erelu Atunwase of Akola-Ijesa Kingdom
Founder, Esther Adeleke Humanitarian Foundation
Wife of the Executive Governor of Osun State.



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Dr.	Afolayan Adedotun Onoyinka	Assistant Secretary General (OWSD IBADAN)
Prof.	Okonkwo Sylvia Ifeyinwa	Financial Secretary (OWSD COOU)
Dr.	Onipede Gbemisola Olufunke	Treasurer (OWSD IBADAN)
Prof.	George Reama Chinedu	Public Relations Officer (OWSD OAU)
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Dr.	Kabiru Mohammed Amina	North-east Zonal Coordinator (OWSD FCE)
Dr.	Mahmoud Amina Bello	North-west Zonal Coordinator (OWSD POLAC)
Dr.	Okafor Obiageli Evelyn	North-central Zonal Coordinator (OWSD RMRDC)

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Prof.	Akin-Obasola Bola Joyce	OWSD EKSU
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Dr.	Oluwamodupe Cecilia	OWSD OAUSTECH
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Prof.	Oyebanjo Oluwakemi Abosede	OWSD TASFUED
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Prof.	Ogunbusola Eunice Moriyike	OWSD FUOYE
Dr.	Orimadegun Bose Etaniamhe	OWSD IBADAN
Dr.	Oyeyemi Ifeoluwa Temitayo	OWSD UNIMED
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PROF. ADENIKE KUKU
LOC MEMBER



PROF. KEHINDE TAIWO
LOC MEMBER



SCHEDULE FOR PLENARY AND TECHNICAL SESSIONS

PLENARY SESSION 1 - BOOC

DAY 2

9:00 am–11:00 am

Chair: Prof. Adesalu Taofikat Abosede; **Rapporteur:** Dr. Onyekwelu Bukola A.

Time	Speakers
9:00 –10:00 am	Dr. O. G Olomojobi (Head of Service, Ekiti State)
10:00 –11:00 am	Prof. G. O. Ogunlusi (Director, Intellectual Property Technology Transfer Office, OAU)

PLENARY SESSION 2 - BOOC

DAY 3

9:00 am–11:00 am

Chair: Prof. SAMUEL T. A.; **Rapporteur:** Dr. WILKIE Eunice Damilola

Time	Speakers
9:00 – 9: 50 am	Prof. O. A. Olasode
9:50 –10:40 am	Prof. Aina O. Adeogun FAS
10:45 – 11.30 am	Prof Stefano Armenia (SYNAPSE PROJECT)

ROOM 1A - BOOA

Theme: Food Science, Food Technology, Nutrition & Smart Food Systems

DAY 2

Technical Session 1: 11:30 am–1:30 pm

Chair: Prof. Eunice Moriyike Ogunbusola; **Rapporteur:** Dr. Oyeboode E.

Time	Abstract No.	Presentation Title
11:30 –11:45 am	010	Design of a smart solar scarecrow system for food security and agricultural value creation
11:45–12:00 pm	045	Seasonal Resilience Under Agricultural Shocks: Post harvest Recovery Dynamics and the Limits of Digital Connectivity in Rural Nigeria
12:00 –12:15 pm	069	Effect of formal agricultural education on the value development of agribusinesses among agricultural graduates in Southwest, Nigeria
12:15 –12:30 pm	075	Effects of flour blending on functional, pasting, and sensory properties of complementary foods from plantain, soybean, and sweet potato
12:30 –12:45 pm	001	Impact of Coating of Edible Chitosan Concentrations as Film on Quality and Moisture Content of Eggs in Storage
12:45 –1:00 pm	306	Use of edible insect (rhynchophorus phoenicis) larvae in chin-chin: effect on nutritional, minerals, antioxidant, antinutrient and sensory properties
1:00 –1:15 pm	328	Human Urine as a Sustainable Fertilizer: Residual effects on Soil Fertility
1:15 –1:30 pm	352	Determination of the Mineral Content and Health Risk Assessment of Some Indigenous Aromatic Spices in Nigeria

Technical Session 2: 3:00 pm–5:00 pm

Chair: Prof. Olubunmi Bolanle AJAYI; **Rapporteur:** Dr. Ifeoluwa Oyeyemi

Time	Abstract No.	Presentation Title
3:00 –3:15 pm	059	Physicochemical, functional and glycemic index of maize-cocoyam starch for dough meal



3:15 –3:30 pm	062	Quality evaluation of complementary meal produced from maize, sprouted sorghum and amaranth seed flour blend
3:30 –3:45 pm	220	Safety and nutritional evaluation of soy–millet flour blends as a potential dietary intervention for diabetes management
3:45 –4:00 pm	281	Value-addition of composite crackers as a sustainable source of dietary fiber, phytochemical, mineral and antioxidant compositions from blends of malted pearl-millet, Jack bean and Fluted-pumpkin leaf powder
4:00 –4:15 pm	294	Effect of extrusion parameters on nutritional and sensory properties of pearl millet-based extruded snacks fortified with food processing by-products
4:15 –4:30 pm	046	<i>Tetraptera tetrapleura</i> (Schumach. & Thonn.), an African indigenous fruit
4:30 –4:45 pm	358	Nutritional composition and sensory attributes of value-added cookies from wheat and fermented plantain flours

DAY 3

Technical Session 3:

12:00 pm–2:00 pm

Chair: Prof. Asaolu Modupe Fisayo; **Rapporteur:** Dr. Olufunmilola O. AJAYI

Time	Abstract No.	Presentation Title
12:15–12:30 pm	188	A comprehensive analysis of exopolysaccharide from <i>Lactobacillus brevis</i> and <i>Leuconostoc mesenteroides</i> isolated from fermented food (pupuru): chemical composition, functional characterization, antimicrobial and antioxidant activities.
12:30–12:45 pm	296	Molecular Characterisation and Probiotic Potentials of Riboflavin- and Methionine-Producing Lactic Acid Bacteria and Yeasts Isolated from Nigerian Traditional Fermented Foods
12:45–1:00 pm	052	Microplastics in Commercial Fish Stocks: Implications for Food Safety and International Fisheries Law
1:00 –1:15 pm	028	Fatty acid profile, phospholipids and phytosterols of three leafy vegetables: Implications for cardiovascular health and dietary lipid quality
1:15 –1:30 pm	360	Comparative study of food hygiene practices among food handlers in urban and rural areas of Osun State, Nigeria
1:30–1:45 pm	332	Black soldier fly (<i>Hermetia illucens</i>) larvae meal - farmers' awareness, perceptions and constraints to its use for poultry production as alternative protein source in Oyo State, Nigeria.
1:45–2:00 pm	128	Assessment of anti-nutritional properties and nutritional composition of senna alata (ringworm plant).

IN-PERSON POSTER PRESENTATIONS

Poster	Abstract No.	Presentation Title
1	081	Effects of Brown Mustard Seed Flour Inclusion on the Proximate Composition, Bioactive Compounds and Antioxidant Potential of Yam Flour
2	094	Proximate composition, bioactive compounds, starch digestive enzyme inhibition and glycemic index of flour from fermented and heat-treated maize grains
3	164	Utilization of indigenous spices among rural households in Ondo State: Implications for nutritional security
4	173	Proximate analysis, anti-nutritional composition and phytochemical screening of three species of <i>Pteris L.</i>



5	204	Quality changes in smoked <i>Clarias gariepinus</i> (burchell, 1822) treated with essential oil from African pepper (<i>Xylopi aethiopica</i> A. rich.) during storage
6	256	Drivers of urban food waste in Nigeria: A review
7	265	Evaluation of quality parameters of biscuit analogues from malted sorghum, wheat and garden egg flour blends
8	287	Valorisation of Food Waste Using Lab-Scale Anaerobic Digestion: A Mini Review

ROOM 1B - BOOB

Theme: Sustainable Agriculture, Aquaculture, Animal Science & Climate-Smart Food Systems

DAY 2

Technical Session 1: 11:30 am–1:30 pm

Chair: Prof. OLANIPEKUN MARY KEHINDE; **Rapporteur:** Dr. BAMIDELE Atinuke Olufunbi

Time	Abstract No.	Presentation Title
11:30–11:45 am	333	Influence of cross-pollination on biochemical traits in thirteen tomato progenies.
11:45–12:00 pm	122	Insecticidal properties of cocoa pod husk biochar and biochar ash against beans weevils
12:00–12:15 pm	003	Evaluation of rhizobia strains with the best colonization Potential For Germination and Performance of African Yam Bean in Ado-Ekiti, Ekiti State, Nigeria.
12:15–12:30 pm	009	Design of a seed spraying robot for smart agriculture
12:30–12:45 pm	119	Heritability estimates of seed yield in a cowpea (<i>Vigna unguiculata</i> (L.) Walp) cross
12:45–1:00 pm	250	Development of an IoT-Based Soil Health Monitoring and Crops Yield Prediction Using XGBoost Machine Learning Model
1:00–1:15 pm	310	Effects of Organic Fertilizer on the Nutritional Quality and Fermentation Characteristics of Solar-Dried Cajanus cajan Forage: Implications for Climate-Smart Ruminant Production
1:15–1:30 pm	121	A blockchain-based framework for agricultural crop traceability food security model

Technical Session 2: 3:00 pm–5:00 pm

Chair: Prof. Bola Joyce Akin-Obasola; **Rapporteur:** Dr. Yetunde TAIWO

Time	Abstract No.	Presentation Title
3:00–3:15 pm	008	Influence of different rhizobia strains on tomatoes (<i>Solanum lycopersicum</i> L.) Grown in rice husk and soil.
3:15–3:30 pm	035	Adaptation strategies to climate change among tomato farmers in ondo state, Nigeria
3:30–3:45 pm	172	Leaf protein electrophoresis of some species of crotalaria in the sub-family papilionoideae
3:45–4:00 pm	115	Development of a crispr/cas9 mp-based protocol for generating gaba-enriched tomato lines
4:00–4:15 pm	064	Development of an enhanced automated fish-feeding system
4:15–4:30 pm	004	Reproductive Performance of <i>Oreochromis Niloticus</i> (Fingerlings) Fed <i>Datura Metel</i> (Devil's Trumpet) Leaf Meal
4:30–4:45 pm	002	Growth Performance of Hybrid Catfish (Heteroclarias) Fingerlings Fed Raw Pumpkin (<i>Cucurbita Pepo</i>) Seed Meal Based Diets



DAY 3

Technical Session 3: 12:00 pm–2:00 pm

Chair: Prof. IDOWU Eunice Opeyemi; **Rapporteur:** Dr. Omotola Victoria AYEBIDUN

Time	Abstract No.	Presentation Title
12:00–12:15 pm	040	Growth and physiological responses of the catfish, <i>Clarias gariepinus</i> (Burchell 1822) fed sweet potato (<i>Ipomoea batatas</i> Lam) peel diet.
12:15–12:30 pm	154	Puberty attainment and growth performance in male rabbits fed zinc sulphate-supplemented diets
12:30–12:45 pm	264	Prenatal performance of rabbit does fed diets containing mangifera indica leaf meal
12:45–1:00 pm	318	Constraints to agricultural innovation: evidence from public research & development projects input system
1:00 –1:15 pm	319	Improving In Vitro Digestibility and Mitigating Methane Production through Mulato II Grass (<i>Brachiaria hybrid</i>)– <i>Gliricidia sepium</i> Forage Mixtures
1:15–1:30 pm	313	Comparative morphological characterization of selected medicinal fabaceae species: implications for taxonomic delimitation
1:30–1:45 pm	137	Smart agriculture; a veritable tool for sustainable food security in Osogbo, Osun State, Nigeria.

IN-PERSON POSTER PRESENTATIONS

Poster	Abstract No.	Presentation Title
1	211	Effects of synthetic aromatase inhibitors on growth performance and gonadal development in broiler chickens
2	129	Entomocidal efficacy of azadirachta indica, piper nigrum, ocimum gratissimum, and capsicum chinense extract against cowpea (<i>callosobruchus maculatus</i>) beetle infesting stored cowpea seeds
3	290	Millet: A Potential Food Crop for Food Sustainability and Nutritional Security in sub- Saharan Africa.
4	161	Growth indices of <i>Clarias gariepinus</i> juveniles fed graded level of treated <i>Xylopi aethiopica</i>
5	084	The effect of fasting on radiographic detail of goat gastrointestinal tract
6	311	Effect of <i>zanthoxylum zanthoxyloides</i> (lam.) Extracts on the growth and yield of cowpea genotypes
7	346	Oxidative stability and egg quality in isa brown layers fed dietary cassava tuber wastes of various blends
8	283	Phenotypic Diversity of Three Populations of the Silver Catfish, <i>Chrysichthys nigrodigitatus</i> (Lacepède, 1803) in Southwestern Nigeria



ROOM 2A – Department of Foreign Languages, Media Studio

Theme: Biomedical Sciences, Natural Products, Clinical Research & Agricultural Extension

DAY 2

Technical Session 1: 11:30 am–1:30 pm

Chair: Prof. Alli Smith Yemisi Rufina; **Rapporteur:** Dr. Jaiyesimi Kikelomo Folake

Time	Abstract No.	Presentation Title
11:30–11:45 am	011	In Vitro validation of datura stramonium l. leaf extract in preserving skin structural integrity: antioxidant and extracellular matrix enzyme inhibition perspectives
11:45–12:00 pm	014	Antihypertensive, neuroprotective and hepatoprotective potentials of gliricidium sepium aqueous leaf extract in sodium fluoride-induced hypertensive and normotensive rats
12:00–12:15 pm	023	Antioxidant and hepatoprotective effect of ethanolic extract of azadirachta indica on ccl4- induced liver damage in wistar rats
12:15–12:30 pm	143	Pharmacological Evaluation of the Antidiabetic and Anti-inflammatory Properties of <i>Bambusa vulgaris</i> (L.) Leaves in Experimental Wistar Rats
12:30–12:45 pm	309	Plasma apolipoprotein profiles in nigerian women with and without gestational diabetes mellitus: a comparative study
12:45–1:00 pm	315	Patient-provider communication and patients' satisfaction with care at the university of medical sciences teaching hospital (unimedth), ondo
1:00 –1:15 pm	302	Evaluation of Phytochemicals in Two Dietary Spices Traditionally Used as Adjuncts in Oral Herbal Formulation
1:15 –1:30 pm	245	Nephrotoxicity assessment in female wistar rats exposed to levonorgestrel-only oral contraceptive

Technical Session 2: 3:00 pm–5:00 pm

Chair: Prof. Bose ORIMADEGUN; **Rapporteur:** Dr. Adewumi Funmilayo Ajoke

Time	Abstract No.	Presentation Title
3:00–3:15 pm	321	Beyond hyperandrogenism: insulin resistance and cardiometabolic risk in women with polycystic ovary syndrome in Ogun State, nigeria
3:15–3:30 pm	322	Assessment of microbial load, antimicrobial resistance and plasmid profiling of bacterial isolates from day care centers in Ile-Ife
3:30–3:45 pm	351	Evaluation of quality maternity care services received by women in primary health care facilities in Ekiti State, Nigeria
3:45–4:00 pm	270	Na ⁺ /K ⁺ -ATPase Inhibition Promotes TRIM4 Mitochondrial Translocation and Autophagy in Human Neural Cells
4:00–4:15 pm	033	Antimicrobial efficacy of zingiber officinale rhizome extracts against multidrug and carbapenem-resistant clinical bacterial isolates
4:15–4:30 pm	102	Evaluation of antibacterial, antioxidant, phytochemical properties and GC-MS OF <i>Stachytarpheta jamaicensis</i> leaf extract against clinical isolates
4:30–4:45 pm	192	Prevalence and Antimicrobial Resistance Patterns of Multidrug-Resistant Bacteria in an Integrated Livestock Farm in Southwestern Nigeria
4:45–5:00 pm	350	Adiponectin–lipid relationships in nigerian children with asymptomatic <i>plasmodium falciparum</i> infection



DAY 3

Technical Session 3: 12:00 pm–2:00 pm

Chair: Prof. OYETAYO Folake Lucy; **Rapporteur:** Dr. Adefunke Oluwaseun Ogunniran

Time	Abstract No.	Presentation Title
12:00–12:15 pm	276	Evaluation of Shiitake Mushroom (<i>Lentinula edodes</i>) as a Natural hypocholesterolemic Agent in Wistar Rats Fed with High-Fat Diet
12:15–12:30 pm	284	Dose-Dependent Mitigation of Renal Oxidative Stress by Dietary <i>Andrographis paniculata</i> (Burm. F.) Wall. Ex Nees Supplementation in Streptozotocin-Induced Wistar Rats
12:30–12:45 pm	193	Effect of Palm Oil Mill Effluent on Growth, Photosynthetic, and Antioxidant parameters in <i>Amaranthus hybridus</i>
12:45–1:00 pm	243	Growth, yield and proximate analysis of pink oyster mushroom (<i>Pleurotus djamor</i>) cultivated on agrowaste substrates supplemented with Tigernut chaff and Ricebran.
1:00–1:15 pm	042	Ethno-botanical survey of wild edible vegetables in oye region of Ekiti State, Nigeria
1:15–1:30 pm	327	Comparative Examination of Gastrointestinal Helminth Infections in Battery Cage Birds Using Sedimentation and Flotation Methods
1:30–1:45 pm	335	Black soldier fly (<i>Hermetia illucens</i>) larvae meal as a replacement for fish meal: histological evaluation of selected organs in broiler chickens
1:45–2:00 pm	348	<i>Limosilactobacillus Fermentum</i> MG4244 preserves metabolic homeostasis and mitigates inflammatory stress in <i>caenorhabditis elegans</i>

IN-PERSON POSTER PRESENTATIONS

Poster	Abstract No.	Presentation Title
1	005	In Vitro antidiabetic and antioxidant activities of polyphenolic-rich <i>Vigna unguiculata</i> pod extract via enzyme inhibition and oxidative stress modulation
2	006	Nephroprotective and anti-inflammatory effects of combined <i>Ocimum gratissimum</i> and <i>Crassocephalum crepidioides</i> aqueous extracts in gentamicin-induced nephrotoxicity in male wistar rats
3	016	Influences of parquentina nigrescens leaf diets on haematological parameters in experimental rats
4	019	Amino acid Composition Antioxidant Activities of Corn Silk Extract and Structure Based Screening of Its Compounds against Plasmodium falciparum Dihydropteroate Synthase
6	051	Bacteriological assessment of private hostels' water quality in Ipetumodu and antibiotic resistance profile of isolated <i>Escherichia coli</i> .
7	060	Immunodulatory Effects of <i>Ocimum gratissimum</i> in the Management of Type 2 Diabetes Mellitus: A Systematic Review
8	087	Effects of cow dung rate on the growth of golden melon (<i>Cucumis melo</i> . l) cultivated at FUNAAB, Abeokuta
9	140	Synthetic Antioxidants In Livestock And Human Diets: A Strategy For Mitigating Female Reproductive Toxicity Induced By Plastic-Associated Chemicals
10	215	The Role of Plant-Based Proteins in the Management of Diabetes and the Suppression of Hypertension: A Contemporary Overview of Molecular Mechanisms



11	260	Hepatoprotective effect of <i>Ipomoea asarifolia</i> extract on potassium dichromate exposure paradigm in male Wistar rats
12	271	Antioxidant bioactives as modulators of oxidative stress in malaria pathogenesis: a double-edged redox duality

ROOM 2B - BOOC

Theme: Natural Products, Microbiology & Clinical Innovations

DAY 2

Technical Session 1: 11:30 am–1:30 pm

Chair: Prof. Adekemi Olubukunola OLUYEGE; **Rapporteur:** Dr. Fatimah Adenike AJADI

Time	Abstract No.	Presentation Title
11:30–11:45 am	034	Multidrug and virulent enterobacteriaceae isolated from food animals in Ekiti State, Nigeria
11:45–12:00 pm	080	Assessment of Chemical and Microbial Quality of Street Vended Foods in Osun State, Nigeria
12:00–12:15 pm	139	Biofilm formation by food-borne microorganisms and laboratory control strategies in food processing environments
12:15–12:30 pm	114	Influence of aqueous extract of <i>Ixora coccinea</i> flower meal on performance and physiological indices in broiler chicken
12:30–12:45 pm	030	Investigation of genes associated with hypertension in adolescents and young adults in Ekiti State
12:45–1:00 pm	329	Biochemical characterization of thermoactive ligninolytic enzymes from <i>pseudomonas aeruginosa</i> during polyethylene biodegradation
1:00–1:15 pm	340	Optimized production and characterization of polyethylene terephthalate (PET) degrading enzymes (petase and esterase) from <i>Bacillus subtilis</i> CFB-09
1:15–1:30 pm	054	Effect of <i>Newbouldia laevis</i> stem extract in the homeostasis of male reproductive hormones unhinged by cadmium exposure

Technical Session 2: 3:00 pm–5:00 pm

Chair: Prof. Femi-Ola Titilayo Olufunke; **Rapporteur:** Dr. Gbemisola Olufunke ONIPEDE

Time	Abstract No.	Presentation Title
3:00–3:15 pm	049	Evaluation of electrolyte, urea and creatinine in essential hypertensive subjects in Ado-Ekiti
3:15–3:30 pm	196	Gastroprotective Activity of <i>Asystasia vogeliana</i> Benth. Leaf Extract Against Indomethacin-Induced Gastric Ulcer in Wistar Rats
3:30–3:45 pm	110	Mechanism of action of compounds from the ethanolic extract of <i>Justicia carnea</i> in the management of anaemic condition
3:45–4:00 pm	209	In vitro evaluation of oxidative stress–protective effects of <i>Euphorbia heterophylla</i> (L.) Leaf extract
4:00–4:15 pm	246	Antibacterial agents from <i>Pterocarpus mildbraedii</i>
4:15–4:30 pm	293	Phytochemical Composition and Bioactive Constituents of <i>Nigella sativa</i> Seed Extracts with Activity against Carbapenem-Resistant Bacteria
4:30–4:45 pm	044	Molecular characterization of gram-negative bacteria from students' lanyards: findings from a University in Southwest Nigeria
4:45–5:00 pm	268	Screening of Teta gene in multidrug-resistant <i>Pseudomonas aeruginosa</i> from selected primary health care centers in Ede, Osun State



DAY 3

Technical Session 3: 12:00 pm–2:00 pm

Chair: Dr. Cecilia Oluwamodupe; Rapporteur: Dr. Adekemi Grace Oluwafemi

Time	Abstract No.	Presentation Title
12:00–12:15 pm	269	Molecular detection of resistance genes in <i>Escherichia coli</i> from staircase handrails: findings from a Nigeria University
12:15–12:30 pm	065	Molecular Characterization and Toxigenic Assessment of Fungi Associated with Tiger Nuts (<i>Cyperus esculentus</i>)
12:30–12:45 pm	029	Indispensability of molecular methods to forestall misidentification of <i>Candida</i> species
12:45–1:00 pm	097	Antimicrobial resistance discourse in Nigeria: an ai-driven text analytics approach
1:00 –1:15 pm	012	Morphological identification of ticks in Ekiti west local government areas, Ekiti State, Nigeria
1:15 –1:30 pm	026	Cultural and metabolomic analyses of actinomycetes cultivated with different culture media
1:30–1:45 pm	341	Enhanced production of endoglucanase from <i>Bacillus subtilis</i> CFB-09 using cassava peels via response surface methodology
1:45–2:00 pm	359	Response surface methodology-based optimization of keratinase and disulfide reductase production for chicken feather biodegradation by <i>Bacillus subtilis</i> CFB-09
2:00–2:15 pm	222	GC–MS profiling of phytochemicals and bioactive constituents in callus cultures and mother plant leaves of <i>Clerodendrum volubile</i>

IN-PERSON POSTER PRESENTATIONS

Poster	Abstract No.	Presentation Title
1	066	Antibiotic susceptibility of <i>Escherichia coli</i> isolated from raw cow milk in Ede, Osun State, Nigeria.
2	057	Epidemiology of cryptosporidium and other opportunistic intestinal parasites in immunocompromised pregnant women and children in Osun State, Nigeria
3	085	Antioxidant analysis of the composite mixture of ethanol extracts of bitter leaf (<i>vernonia amygdalina</i>) and jatropha leaf (<i>jatropha tanjorensis</i>)
4	252	Cytogenotoxicity and toxicological effects of formaldehyde on african catfish <i>Clarias gariepinus</i> (Burchell, 1822)
5	090	Investigation of the bioactivity and efficacy of methanolic extract of wonderful kola leaf (<i>Buchholzia coriacea</i>)
6	103	GC-MS phytochemical profiling, antibacterial screening, and molecular docking analysis of the ethanolic extract of <i>cassia fistula</i> stem-bark: An In vitro and in silico approach
7	222	GC–MS profiling of phytochemicals and bioactive constituents in callus cultures and mother plant leaves of <i>Clerodendrum volubile</i>
8	261	Antihyperglycemic Activity and Elemental Composition of <i>Azadirachta Indica</i> Fruit
9	273	Bitter kola (<i>Garcinia kola</i>) Seeds as an Emerging African Nutraceutical: Phytochemicals, Mechanisms, Gut Microbiota Interactions, and Health Potential.
10	024	Isolation, purification, and characterization of isolate c1 cellulase from cassava wastewater
11	244	Occurrence and Molecular Detention of Resistant Gene in <i>E coli</i> Isolated from Some Soil Samples from Selected Locations in Ibadan, Oyo State



12	227	Correlation between phenotypic antimicrobial resistance and resistance genes in gram-positive urogenital isolates.
13	134	Optimizing Industrial Cellulase Production from Lignocellulosic Agro-Waste using <i>Aspergillus Fungi</i>
14	018	Biocontrol Potential of <i>Priestia megaterium</i> via Soluble and Volatile Metabolites Against Phytopathogenic Fungi
15	147	Morphological Diversity of Plant-Parasitic Nematodes and Associated Microbial Communities in Oil Palm (<i>Elaeis guineensis</i> Jacq.) Rhizosphere Soils of Okitipupa, Southwestern Nigeria
16	236	Antimicrobial Activity of Polymer Coatings Prepared from Castor Seed Oil against <i>Escherichia coli</i> and <i>Staphylococcus aureus</i>
17	278	Antimicrobial activity of three medicated soaps on <i>staphylococcus aureus</i> from wound infection

ROOM 3 - Department of English Language, Seminar/Board Room

Theme: Application of AI in Education, Health & National Development

DAY 2

Technical Session 1: 11:30 am–1:30 pm

Chair: Prof. Aderonke Margaret Oginni; Rapporteur: Dr. Gbadamosi Omoniyi Ajoke

Time	Abstract No.	Presentation Title
11:30–11:45 am	301	Development of yorùbá indigenous food recognition system using local binary pattern and particle swarm optimization
11:45–12:00 pm	050	Leveraging Artificial Intelligence for Youth Mental Health Promotion in Nigeria: A Psycho-social and Ethical Analysis
12:00–12:15 pm	099	Effect of artificial intelligence tools on teaching effectiveness of geometry in tertiary institutions in benue state
12:15–12:30 pm	107	Towards intelligent network security: A multi-stage intrusion detection approach using decision tree and naive bayes models
12:30–12:45 pm	182	A Meta-Learning Based Ensemble Predictive Framework for Contraceptive Uptake
12:45–1:00 pm	187	Smartshop: A recommendation system platform for e-commerce using machine learning
1:00 –1:15 pm	197	Implementation of a Web-Based Tool for Terminal Disease Prediction in Nigerian Healthcare System
1:15 –1:30 pm	312	Development of a mobile and web based application for veterinary reproductive services in Nigeria: Reprocare™

Technical Session 2: 3:00 pm–5:00 pm

Chair: Prof. Oladunni Juliet Femi-Jemilohun; Rapporteur: Dr. Josephine Olametanmi Mebawondu

Time	Abstract No.	Presentation Title
3:00–3:15 pm	043	Artificial Intelligence in Indigenous Knowledge and Practices: A Comparative Analysis
3:15–3:30 pm	118	Breaking the complexity trap: systems thinking and digital transformation as enablers of sustainable development in Nigeria
3:30–3:45 pm	230	Evaluating and Predicting Information Security Risk in Non-Computing Students Using a DEMATEL-Machine Learning Approach
3:45–4:00 pm	258	Machine Learning-Powered Forecasting of Global Electricity Demand



4:00–4:15 pm	136	An appraisal of school feeding programme and child education in Osun State, Nigeria
4:15–4:30 pm	166	Digital Media Platforms as Tools for Empowering Women Entrepreneurs in Nigeria: A Systematic Review
4:30–4:45 pm	217	Sustainability approach to green energy planning for energy-poor communities
4:45–5:00 pm	357	Technology, Tutors, and Parents as an Interacting System: Reflections on Learning in the Algorithmic Age

DAY 3

Technical Session 3: 12:00 pm–2:00 pm

Chair: Prof. BELLO Theodora Olufunke; **Rapporteur:** Dr. Folake Beatrice YOADE

Time	Abstract No.	Presentation Title
12:00–12:15 pm	275	Application of Artificial Intelligence and System Thinking in Physics Education for Sustainable National Development in Maiduguri, Borno State
12:15–12:30 pm	336	Teacher Education as a Leverage for Addressing Sustainability Challenges
12:30–12:45 am	124	Dance drama as a non-verbal communication in stem learning for early years
12:45–1:00 pm	159	A Virtual Career Counselling Assistant for Secondary School Students in Nigeria: Design, Development, and Evaluation
1:00 –1:15 pm	125	Systems Thinking and Innovation: Transforming Challenges into Opportunities for National Development Through Digitization of University Records
1:15 –1:30 pm	141	Effect of TPACK-Supported Blended Learning on Mathematics Achievement and Retention in Secondary Schools
1:30 –1:45 pm	235	Systems-based biology instruction in secondary schools: a catalyst for innovation and national development

IN-PERSON POSTER PRESENTATIONS

Poster	Abstract No.	Presentation Title
1	299	A Pilot Study on Digital Interactive Screens for Nigeria's Nature Museum
2	285	Harnessing Plant-Based Innovations for Sustainable Environmental Management and National Development

ROOM 4 – Department of Botany Seminar Room

Theme: Sustainable Environment & Green Technologies

DAY 2

Technical Session 1: 11:30 am–1:30 pm

Chair: Prof. Olabanji Iyabo Oluremi; **Rapporteur:** Dr. OSENI Margaret Oladunni

Time	Abstract No.	Presentation Title
11:30–11:45 am	226	Maize Cob-Derived Biochar as a Remediation Strategy for Heavy Metal Mobility in Vegetables Cultivated on Dumpsite Soils
11:45–12:00 pm	233	Comparative Effects of Foliar and Soil Fertilization on Growth, Nutrient Composition, and Trait Relationships in Ewedu (<i>Corchorus olitorius</i> L)
12:00–12:15 pm	254	Integrated bioremediation of bitumen-polluted soil for sustainable agricultural recovery



12:15–12:30 pm	083	Toxicological assessment of heavy metals in cosmetic products
12:30–12:45 pm	213	Pollution Assessment of Heavy Metals and the Physico-Chemical Properties of the Mahin Lagoon and Its Adjoining Creeks
12:45–1:00 pm	303	Impacts of environmental degradation, resource exploitation and water pollution: a case study of Ofin and Ibeshe, Ikorodu, Lagos State Coastline Southwest Nigeria.
1:00 –1:15 pm	314	Qualitative Assessment of Macroinvertebrates and Macroplastics in Esinmirin Stream, Ile-Ife, Osun State
1:15 –1:30 pm	326	Integrated Assessment of Hand-Dug Well Water Quality and Trace Metal Bioaccumulation and Phytochemical Composition of Periphyton Associated with a Household Water Filtration Assemblage in Oke-Opo, Ilesha, Osun State, Nigeria

Technical Session 2: 3:00 pm–5:00 pm

Chair: Prof. ALUKO Bukola Tola; **Rapporteur:** Dr. Tolulope Damilola Oyeniran

Time	Abstract No.	Presentation Title
3:00–3:15 pm	231	Growth responses of <i>Pteris vittata</i> and <i>pteris ensiformis</i> to heavy metal–contaminated roadside soils in ile-ife, nigeria
3:15–3:30 pm	214	Biological innovative strategies for the sustainable management of aquatic ecosystems
3:30–3:45 pm	221	Effect of carbon amendment on potentially toxic metals uptake and phenotypic responses of selected nigerian vegetables
3:45–4:00 pm	127	Development of a smart portable water purification system
4:00–4:15 pm	163	Synthesis of Novel Graphene Oxide Derived from Coconut Shell Biochar for the Sorption and Optimization of Ciprofloxacin from Wastewater
4:15–4:30 pm	202	Synthesis of copper ferrite @MOF-5 and its adsorption capacity to remove Congo red and methylene blue from water system
4:30–4:45 pm	237	GC–MS Profiling and Chemotaxonomic Variation of Methanolic Leaf Extracts of <i>Bambusa vulgaris</i> from Southwest Nigeria: Implications for Bioactive Potential
4:45–5:00 pm	234	Sorption isotherm of egg white powder

DAY 3

Technical Session 3: 12:00 pm–2:00 pm

Chair: Prof. Ibiyinka Ogunlade; **Rapporteur:** Dr. ASIFAT, Janet Temitope

Time	Abstract No.	Presentation Title
12:00–12:15 pm	223	Innovative Strategies for Cyanide Remediation in Contaminated Ecosystems: A Systems Thinking Approach to Sustainable Environmental Management
12:15–12:30 pm	225	Assessing the Economic Viability and Environmental Impact of Plastic Waste-to-Fuel Technologies in Nigeria
12:30–12:45 pm	330	Physicochemical Characterization and Ecological Risk Assessment of Sediment of the Artisanal Gold Mining Ponds along Osu-Ilesa Area, Osun State, Nigeria
12:45–1:00 pm	015	Effects of Palm Oil Mill Effluents (POME) on Growth and Yield Performances of Worowo
1:00 –1:15 pm	338	A Review of Forest Vegetation Dynamics in Nigerian Rainforest Regions



1:15 –1:30 pm	120	The green gap: assessing urban tree cover as a nature-based defense against heat and storm hazards in Ibadan, Nigeria
1:30 –1:45 pm	025	Assessment of the physicochemical parameters and fish composition of Ogbese river, Ondo State, Nigeria

IN-PERSON POSTER PRESENTATIONS

Poster	Abstract No.	Presentation Title
1	078	Evaluation of chemical extraction methods for assessing bioavailability of potentially toxic metals in roadside soils
2	131	Comparative Sorption Efficiency of Chitosan-Modified and Unmodified PET-Based Adsorbents for Polycyclic Aromatic Hydrocarbon Removal from Domestic Water
3	247	Impact of microplastics on the abundance of nematodes in a dumpsite and abandoned farmland: a case study in Osogbo, Nigeria.
4	095	Towards a Sustainable Environment: A Qualitative Study of Waste Disposal Practices in Agodi Gardens, Ibadan, Nigeria.
5	242	Achieving Heavy Metals Free Reclaimed Water through Sorption Using Modified and Unmodified Nanoporous Silica
6	286	Chemistry, biological activities and possible industrial applications of <i>Plumeria rubra</i> L. (<i>Rainbow frangipani</i>) Essential Oils
7	047	Production of kaolin-based synthesised zeolites for removal of heavy metals from industrial wastewater in Nigeria
8	331	Comparative Assessment of Zooplankton Community Structure in Surface Waters and Intertidal Sediments of the Cross River Estuary, Nigeria

ROOM 5 – Department of Zoology Board Room

Theme: Geospatial Science, Geophysics & Civil Infrastructure

DAY 2

Technical Session 1: 11:30 am –1:30 pm

Chair: Prof. IKUMAPAYI Catherine Mayowa; **Rapporteur:** Dr. Ozien P. Mamudu

Time	Abstract No.	Presentation Title
11:30–11:45 am	086	A near-real-time geospatial intelligence platform for desertification monitoring and forest loss detection across Africa
11:45–12:00 pm	096	Geophysical and hydrochemical assessment of contaminants around the piggery section of BOUESTI farm, Ikere-Ekiti, South western Nigeria
12:00–12:15 pm	171	Comparative Study on the Performance of Concretes Subjected to Various Curing Regimes
12:15–12:30 pm	073	Comparative analysis of the spatial distribution of pharmaceutical service points in Ife Central, Nigeria

IN-PERSON POSTER PRESENTATIONS

Poster	Abstract No.	Presentation Title
1	088	Integrated geophysical and hydrochemical characterization of groundwater contamination from bituminous sand deposits in Ode-Aye, South western Nigeria.
2	092	Investigation of subsurface condition for sustainable infrastructure development, Ayeka, Okitipupa



ROOM 5 - Department of Zoology Board Room

Theme: Mathematical Modelling & Digital Innovation

Technical Session 2: 3:00 pm - 5:00 pm

Chair: Prof. MAKINDE Deborah Olufunmilayo; **Rapporteur:** Dr. Adara Damilola Bukunmi

Time	Abstract No.	Presentation Title
3:00 –3:15 pm	279	An assessment of projectile motion and its applications in physical systems
3:15 –3:30 pm	138	Assessing Sulphadoxine–Pyrimethamine Intermittent Preventive Therapy for Malaria in Pregnancy Using Mathematical Modelling in Nigeria
3:30 –3:45 pm	195	Boundary layer modelling of MHD Jeffrey fluid flow with inhomogeneous material properties around cylindrical cooling tube in a reactor
3:45 –4:00 pm	305	Unsteady Couette and Poiseuille-type flows of a second-grade fluid with power-law spatially varying material properties
4:00 –4:15 pm	307	Mathematical modelling of superheated steam drying of papaya (<i>Carica papaya L.</i>)

ROOM 6 – Department of Philosophy, Seminar Room

Theme: Social Sciences, Public Health, Business & Sustainable Development

DAY 2

Technical Session 1: 11:30 am–1:30 pm

Chair: Prof. Jegede Margaret Olusolape; **Rapporteur:** Dr. Faith Abimbola Boluwaji

Time	Abstract No.	Presentation Title
11:30 –11:45 am	106	Examining climate change adaptation in fisheries and aquaculture through gender lens in South western Nigeria
11:45 –12:00 pm	304	Invisible care, visible innovation: a systems thinking exploration of how unpaid care work shapes women's scientific careers in Nigeria
12:00 –12:15 pm	175	Impact of Access to Credit on Rural Women's Poverty in Oyo State, Nigeria
12:15 –12:30 pm	150	Bridging knowledge and action: integrating community knowledge, gender, and social inclusion through ACRC action research in Nigeria's climate change policy implementation
12:30 –12:45 pm	308	From data to policy: Lessons from maternal healthcare utilisation during covid-19 for health system resilience in Nigeria
12:45 –1:00 pm	317	Social realities of knowledge and practices of disease surveillance and notification among health information management professionals in Oyo State

Technical Session 2: 3:00 pm–5:00 pm

Chair: Prof. Agbalajobi; **Rapporteur:** Dr. Ilevbare Oluwatosin Eniola

Time	Abstract No.	Presentation Title
3:00–3:15 pm	232	Leveraging System Thinking and Innovation to Enhance Women Empowerment in Internally-Displaced Persons Camps: Transforming Challenges into Opportunities for National Development
3:15–3:30 pm	274	The role of women-driven innovations in transforming science and technology



3:30–3:45 pm	262	Social Media Influence, Peer Pressure and Drug Abuse among Secondary School Adolescents
3:45–4:00 pm	263	Parental Involvement, Peer Pressure and Drug Abuse among Secondary School Adolescents
4:00–4:15 pm	113	The Impact of Social Media Advertising on Online Hotel Bookings in Kogi State, Nigeria
4:15–4:30 pm	177	Effect of factors influencing performance of students in the federal polytechnic, Ado Ekiti
4:30–4:45 pm	093	An Empirical Analysis of the Factors Influencing Passengers' Satisfaction in Integrating Bus Rapid Transit and Informal Public Transport
4:45–5:00 pm	169	Setback distance compliance of MTN telecommunication masts in Osun State, Nigeria: Implications for public health and environmental safety

DAY 3

Technical Session 3: 12:00 pm–2:00 pm

Chair: Prof. Titilayo Olubunmi Olaposi; **Rapporteur:** Dr. Risikat Idowu Fadare

Time	Abstract No.	Presentation Title
12:00–12:15 pm	259	Uterine fibroids among women of reproductive age: Prevalence, types and treatment options
12:15–12:30 pm	282	Gender inclusiveness and transformational leadership in nigeria's public administration: a framework for organisational effectiveness
12:30–12:45 pm	300	The rising prevalence of antimicrobial-resistant urinary tract infections in pregnant women and its implications for neonatal care
12:45 – 1:00 pm	191	Board Gender Diversity and Firm Performance in Nigeria: Evidence from Non-Financial Listed Firms
1:00 –1:15 pm	364	Evaluating the Impact of Interior Design Colours on Hotel Users' Experience in South-West Nigeria: A Systematic Review

IN-PERSON POSTER PRESENTATIONS

Poster	Abstract No.	Presentation Title
1	132	Population variation in human ear morphology among individuals from selected Nigerian states: insights and implications
2	255	Cervical cancer screening and its uptake among female teachers in two selected secondary schools in Ikoyi Area, Lagos State
3	288	Attitudes Towards Counselling and Mental Health Support Among Undergraduate Students in Ila Orangun, Osun State
4	291	Awareness, attitude and perception of farming households toward neglected and underutilized legumes and goat milk in Osun State.
5	365	Innovating for Food Security: A Critical Appraisal of Nigeria's Intellectual Property Regime for Sustainable Inventions and Innovations



ROOM 7 – First Bank Seminar Room (@FBLT)

Theme: Sustainable Energy, Engineering Innovation & Advanced Materials

DAY 2

Technical Session 1: 11:30 am — 1:30 pm

Chair: Engr. Prof. Mrs. O. A. Olaseinde; **Rapporteur:** Dr. AKINBOLA Boladale Wuraola

Time	Abstract No.	Presentation Title
11:30–11:45 am	295	Operational Performance and Sustainability Assessment of Factory-Fitted and Retrofitted CNG Tricycles in Nigeria
11:45–12:00 pm	298	Comparative assessment of cassava, yam and sweet potato peels as lignocellulosic feedstocks for sustainable bioethanol production
12:00–12:15 pm	207	Systems thinking for sustainable value creation in complex energy systems: a strategic perspective from upstream oil and gas
12:15–12:30 pm	117	Electrodeposition-Induced Band Gap Modulation of Copper Oxide thin films for Improved Light Harvesting Applications
12:30–12:45 pm	229	Effects of carbonation on the properties of reinforced bamboo leaf ash concrete
12:45–1:00 pm	077	Design and implementation of an energy-efficient wi-fi and bluetooth frequency jammer
1:00–1:15 pm	037	Investigation of the effects of termite mould on the compressive strength of interlocking pavers and conventional concrete
1:15–1:30 pm	133	Performance and Durability of Agar-Based Biopolymer Stabilization of Lateritic Soils under Tropical Climatic Conditions

Technical Session 2: 3:00 pm–5:00 pm

Chair: Prof. Olaleye Bolanle Omotoke; **Rapporteur:** Dr. FADARE Racheal Yetunde

Time	Abstract No.	Presentation Title
3:00–3:15 pm	297	Synthesis and Characterisation of β -Ga ₂ O ₃ Thin Films Deposited by Spray Pyrolysis for Deep Ultraviolet Radiation Detection
3:15–3:30 pm	116	Techno-Economic Feasibility of a Grid-Connected Open Well Pumped-Hydro Energy Storage System for Residential Application in Nigeria
3:30–3:45 pm	248	Microstructural, thermal, and mechanical characterisation of sand and waste plastics (PET, HDPE, LDPE) for panel composites
3:45–4:00 pm	249	Corrosion behaviour of API 5L carbon steel pipeline in simulated Niger Delta environments
4:00–4:15 pm	228	Development of an office waste management system

IN-PERSON POSTER PRESENTATIONS

Poster	Abstract No.	Presentation Title
1	292	Comparative Study on the Tensile and Flexural Properties of Sisal, Banana and Bamboo for Treated and Untreated Hybrid Fibre Epoxy Composites.



PLENARY SPEAKERS



Aina Olubukola Adeogun PhD FAS – Head, Department of Zoology and Aquatic Toxicology Research Group, Department of Zoology, University of Ibadan, Ibadan, Nigeria
ainaadeogun@yahoo.com; ao.adeogun@ui.edu.ng; www.ainaadeogun.org

Aina O. Adeogun is a Professor of Molecular and Cellular Toxicology with specialization in Aquatic Toxicology at the University of Ibadan, Nigeria. She is also a Member of the Governing Council of the University of Ibadan and a Fellow of the Nigerian Academy of Science. Her research focuses on endocrine disruption in fish caused by pollutants from industrial, agricultural, and domestic sources. Her studies examine how these pollutants alter genes responsible for egg precursor and eggshell proteins, leading to hormonal imbalance and infertility in fish. She provided the first molecular evidence of pollutant-induced infertility in fish in Nigeria, with findings that offer important insights into fertility challenges in humans. Her work has also revealed molecular pathways linking pollution exposure to obesity in fish, mirroring mechanisms associated with human obesity.

Professor Adeogun's outstanding contributions to toxicology and environmental research have earned her several national and international recognitions, including Fellow of the Nigerian Academy of Science (2024) and Global Senior Scholar of the Society of Toxicology (2018). She also facilitated a Seeding Labs equipment grant worth \$250,000 to the Department of Zoology, University of Ibadan.

She currently leads the MCLEAN Project Nigeria, a TETFund National Research Grant investigating microplastic pollution and its implications for food safety, aquatic life, and human health in West Africa. An active member of numerous scientific organizations, she has supervised several postgraduate students, published over 90 peer-reviewed articles, and serves as a reviewer for high-impact scientific journals.

Title: Science out of a Box: Multidisciplinary and Transdisciplinary Approaches for Societal Impact



PROF. OLAYINKA ABIMBOLA OLASODE **MBBCH, FWACP, FACP, IFAAD**

Professor Olayinka Olasode is a highly accomplished medical doctor with over 42 years of professional experience. She is a Professor of Dermatology and Internal Medicine at Obafemi Awolowo University (OAU), Ile-Ife, and has served as a consultant dermatologist at the Obafemi Awolowo University Teaching Hospitals Complex for more than three decades. Notably, she is the first female Professor of Dermatology and Venereology at OAU.

A distinguished researcher, she has authored over 90 peer-reviewed scientific publications and contributed to several medical textbooks. She also serves as a reviewer for numerous local and international journals, a professorial assessor, and an examiner within her specialty. Over the years, she has mentored and trained many dermatologists across Nigeria, some of whom have advanced to professorial ranks.

Professor Olasode has held multiple leadership roles, including serving several terms as Head of Department and participating in key university decision-making bodies. She currently chairs the Faculty Anti-Sexual Harassment Committee at the College of Medicine.

Her impact extends nationally and internationally. She contributed to the establishment of dermatology departments in two institutions in South-South Nigeria and previously chaired the South West Dermatology Association. She also served as President of the Medical Women's Association of Nigeria (MWAN), Osun State Branch (2023–2025), and is a member of its national working committee on female cancers.

Her global engagements include collaborations with institutions such as Johns Hopkins University and Makerere University. She is also a mentor in international dermatology programs and contributed to the WHO ICD-11 skin disease classification revision.

Title of Presentation: Systems thinking in solving National (Global) health challenges



PLENARY SPEAKERS



PROF. GRACE OLUFUNMILAYO OGUNLUSI

Grace Olufunmilayo Ogunlusi is a distinguished academic leader and Professor of Physical Chemistry at Obafemi Awolowo University (OAU), Ile-Ife. An alumna of the institution, she obtained her Bachelor's, Master's, and Doctoral degrees in Chemistry from OAU. Her doctoral studies were further strengthened through research training at the University of Botswana, where she deepened her expertise in Physical Chemistry.

Professor Ogunlusi began her academic career as a Graduate Assistant in the Department of Chemistry at OAU in 2000 and steadily progressed through the ranks to become a Professor in 2018. In doing so, she made history as the first female Professor in the Department of Chemistry. Over the years, she has taught, supervised, and mentored numerous

undergraduate and postgraduate students, contributing significantly to academic development and scientific research. She has published extensively in reputable international journals and actively contributes to the scientific community through conference presentations, manuscript reviews, and service as an external examiner within and outside Nigeria.

She currently serves as the Director of the Intellectual Property and Technology Transfer Office (IPTTO) at OAU. Under her leadership, the office has enhanced institutional support for intellectual property protection, technology transfer, innovation, and industry collaboration. She also spearheaded the digitalization of the university's intellectual property management system and established the OAU Innovation Club to promote creativity and entrepreneurship among students and staff.

Professor Ogunlusi is a UASP Fellow in Research Management and Leadership and belongs to several professional scientific organizations.

Title: Research and Industrial Collaboration



DR. OLUFOLAKE GBONJUBOLA OLOMOJOBI

Olufolakemi Gbonjubola Olomojobi is an accomplished public health practitioner and administrator with over three decades of professional experience in healthcare management and policy. Born on September 20, 1971, she obtained her Bachelor of Dental Surgery degree from Obafemi Awolowo University, Ile-Ife, and later earned a Master of Public Health from the University of Lagos, a Master of Business Administration from the University of Ado-Ekiti, and a Master's degree in Health Economics, Policy and Management from the London School of Economics and Political Science in 2017.

Dr. Olomojobi has held several strategic leadership positions in the Ekiti State public service. She served as Project Manager of the World Bank-Assisted Ekiti State Health System Development Project II (2002-2008), where her leadership contributed significantly to

improving drug availability in health facilities from 7% to 78%. The project also enhanced healthcare utilization and strengthened community-based health initiatives across the state.

Her public service career includes appointments as Deputy Director of Primary Health Care and Disease Control, Director of Planning, Research and Statistics, Permanent Secretary in the Ministry of Health, Permanent Secretary of the Hospitals' Management Board, and Permanent Secretary of the Ministry of Education, Science and Technology. She currently serves as the Head of Service of Ekiti State.

Dr. Olomojobi has received several awards for excellence in leadership and public service. She is also a member of the Nigerian Medical Association and the pioneer President of the Medical Women's Association of Nigeria, Ekiti State Branch.

Title: From Lab to Life: How the Civil Service Coordinates Research into Real-World Impact for Multi-Sectoral National Development

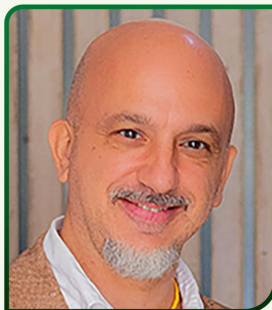


PROFILE OF AWARDEES



Her Excellency Ambassador Erelu Ngozi Abeni Adeleke is a distinguished humanitarian, philanthropist, business leader, and advocate for women's empowerment. As the Wife of the Governor of Osun State, Nigeria, she has championed initiatives that promote inclusive development, education, healthcare, entrepreneurship, and social welfare, particularly for women, youth, and vulnerable communities. She is also the Founder and Chairperson of the Esther Adeleke Humanitarian Foundation, a non-governmental organisation dedicated to expanding access to healthcare, education, vocational training, and economic opportunities across underserved communities. Before entering public service, Erelu Adeleke built a successful career in the banking sector, serving in several leading financial institutions, including Societe Generale Bank, FIN Bank, UBA, and Union Bank. She retired from banking in 2018 to devote herself fully to humanitarian work and public service. She holds a Bachelor's degree in Psychology from the University of Nigeria, Nsukka, and an MBA in Advertising and Public Relations from Imo State University. An internationally recognised advocate for peace, gender equality, and sustainable development, Erelu Adeleke has been honoured as a United Nations Peace Ambassador for her outstanding contributions to humanitarian service and community development. Through strategic partnerships and grassroots programmes, she has empowered women entrepreneurs, supported youth skills development, and promoted initiatives that strengthen families and improve livelihoods. Widely admired for her compassionate leadership and unwavering commitment to social impact, Her Excellency continues to inspire transformative change by fostering inclusive policies and initiatives that advance human dignity, community resilience, and sustainable development across Nigeria and beyond.

AWARD - DISTINGUISHED PATRON



Professor Stefano Armenia is an Associate Professor of Business Organizations and Systems Analysis at the Università Telematica degli Studi in Florence, Italy, where he teaches Business Organizations, Marketing Communication Techniques, and ESG and Sustainability. He holds a degree in Computer Engineering, a PhD in Business Engineering, and a Master's degree in Management and Business Administration. An internationally recognised expert in systems thinking and system dynamics, Professor Armenia has served as a visiting professor at the African University of Science and Technology, Abuja, and the American University of Nigeria, Yola, where he taught systems thinking and the modelling and simulation of complex organisations. He also lectures in master's programmes and executive courses at several institutions worldwide. Professor Armenia has been an active member of the System Dynamics Society since 2002 and has served as President of the Italian Chapter (SYDIC) since 2011. He previously served on the Society's Policy Council and as Vice President for Chapters and Special Interest Groups. His research focuses on the dynamics of complex systems, with applications in sustainable development, digital transformation, cybersecurity, critical infrastructure, logistics, finance, innovation, and public policy. He serves on the editorial boards of several international scientific journals and has published extensively in leading journals, including Technological Forecasting and Social Change, Futures, Decision Support Systems, and the International Journal of Management Education. He has also contributed to sustainability scholarship by translating influential works, including Donella Meadows' Thinking in Systems and The Limits to Growth. Through his research, teaching, and policy engagement, Professor Armenia continues to promote systems thinking as a powerful approach to addressing global sustainability challenges.

AWARD: CHAMPION FOR CHANGE



Professor Chukwumerije Okereke is Professor of Global Climate Governance and Public Policy at the School of Policy Studies at the University of Bristol and Co-Director Center for Climate Change and Development at Alex Ekwueme Federal University, Nigeria. He is a Visiting Professor at the London School of Economics (LSE) and until recently a Senior Academic Visitor at the University of Oxford, UK. He was previously Director of the Center for Climate Change and Development at the Smith School of Enterprise and the Environment at the University of Oxford and Co-Director Center for Climate and Justice at the University of Reading. Prof Okereke is a globally recognized leading scholar on global climate governance and international development, Coordinating Lead Author of the UN's Intergovernmental Panel on Climate Change (IPCC) Sixth Assessment Report and Fellow the World Academy of Sciences (TWAS). He is the President of the Society for Planet and Prosperity, Nigeria.

AWARD: CHAMPION FOR CHANGE



PROFILE OF AWARDEES



Idris Ayodeji Bello is an Afropreneur, award-winning strategist, angel investor, and global thought leader with extensive experience spanning technology, entrepreneurship, healthcare, education, consumer goods, and public policy. Renowned for building strategic partnerships across five continents, he has dedicated his career to advancing innovation-driven enterprises that improve lives and create sustainable opportunities across Africa. A First Class graduate in Computer Engineering from Obafemi Awolowo University, Nigeria, Idris holds an MSc in Computer Science from the University of Houston, an MBA from Rice University, where he was recognised as a Jones Scholar, and an MSc in Global Health Science from the University of Oxford as the first Nigerian-American recipient of the prestigious Lord Weidenfeld Scholarship. Idris has held leadership positions at Chevron, Procter & Gamble, and the Clinton Health Access Initiative, where he contributed to transformative projects in technology, healthcare, and supply chain management. He is also the co-founder of Wennovation Hub, one of Nigeria's pioneering innovation hubs that has supported numerous successful start-ups and won the SAP Ashoka Global Changemaker Competition. Internationally recognised, Idris has been

Internationally recognised, Idris has been named among CNN's Top 10 African Technology Voices and has received several prestigious awards for social innovation and entrepreneurship. He has delivered policy presentations at the British House of Lords, the Parliaments of Ghana and South Africa, and the Vatican. Currently, Idris serves on several corporate and innovation boards, mentors emerging African entrepreneurs, and advises high-growth technology companies. A passionate advocate for education, healthcare, and youth development, he continues to champion innovation as a catalyst for Africa's economic transformation.

AWARD: CHAMPION FOR CHANGE



Professor Ganiyu Adesola Aderounmu is the Deputy Vice-Chancellor (Academic) of Obafemi Awolowo University (OAU), Ile-Ife, and a distinguished Professor of Computer Science and Engineering. An accomplished scholar, researcher, and academic leader, he has over three decades of experience in teaching, research, innovation, and university administration. Professor Aderounmu earned his B.Sc., M.Sc., and Ph.D. degrees in Computer Science and Engineering and has built an outstanding career in computer communications, network management, distributed systems, multimedia communications, and software engineering. His research has contributed significantly to advances in quality of service, wireless communications, information retrieval, network optimisation, and engineering education. He has authored numerous publications in reputable international journals and supervised many postgraduate researchers. Beyond his scholarly achievements, Professor Aderounmu has held several strategic leadership positions at OAU, including Acting Head of the Department of Computer Science and Engineering, Director of the Information Technology and Communications Unit, and Centre Leader of the African Centre of Excellence and the OAU

Knowledge Park (OAK-Park). Through these roles, he has championed digital transformation, research collaboration, technology transfer, and innovation-driven capacity building within and beyond the university. A Fellow and active member of several professional bodies, including the Nigerian Society of Engineers (NSE), the Computer Professionals Registration Council of Nigeria (CPN), and the Nigeria Computer Society (NCS), Professor Aderounmu is committed to advancing academic excellence, research innovation, and technology-enabled development. As Deputy Vice-Chancellor (Academic), he continues to provide visionary leadership in strengthening teaching, learning, and scholarship at Obafemi Awolowo University.

AWARD: CHAMPION FOR CHANGE



Mary Kolade (Osinowo) is a technology leader with over two decades of experience driving digital transformation across Africa, the Middle East, and other emerging markets. She began her career as a software developer, building applications for one of Nigeria's leading job portals before joining Procter & Gamble, where she led major technology initiatives across manufacturing, supply chain, sales, and enterprise systems. Her work included implementing manufacturing and warehouse management solutions, ERP integrations, network and voice infrastructure, sales force automation, and image recognition technologies. She later led the IT organization for East and West Africa, supporting operations across 11 countries.

At Microsoft, Mary plays a key role in helping public and private sector organizations harness cloud technologies, data, advanced analytics, and artificial intelligence to accelerate innovation and business transformation. She has partnered with customers across industries including financial services, telecommunications, manufacturing, oil and gas, e-commerce, and government, delivering solutions that create long-term business value and societal impact.

Mary holds a degree in Electronic and Electrical Engineering from Obafemi Awolowo University,



PROFILE OF AWARDEES

where she graduated as the Best Female Student, and an MBA from Oxford Brookes University. She is a certified Project Management Professional (PMP), ITIL Service Management Professional, Azure Data Analyst Associate, Azure Data Engineering Associate, and Azure AI Engineer Associate.

Passionate about continuous learning and knowledge sharing, Mary enjoys mentoring, training, and coaching business and technology professionals in data analytics and artificial intelligence, helping to build the next generation of innovation leaders.

AWARD: LIFE MEMBER



Olufolakemi Gbonjubola Olomojobi is an accomplished public health practitioner and administrator with over three decades of professional experience in healthcare management and policy. Born on September 20, 1971, she obtained her Bachelor of Dental Surgery degree from Obafemi Awolowo University, Ile-Ife, and later earned a Master of Public Health from the University of Lagos, a Master of Business Administration from the University of Ado-Ekiti, and a Master's degree in Health Economics, Policy and Management from the London School of Economics and Political Science in 2017.

Dr. Olomojobi has held several strategic leadership positions in the Ekiti State public service. She served as Project Manager of the World Bank-Assisted Ekiti State Health System Development Project II (2002–2008), where her leadership contributed significantly to improving drug availability in health facilities from 7% to 78%. The project also enhanced healthcare utilization and strengthened community-based health initiatives across the state.

Her public service career includes appointments as Deputy Director of Primary Health Care and and Disease Control, Director of Planning, Research and Statistics, Permanent Secretary in the Ministry of Health, Permanent Secretary of the Hospitals' Management Board, and Permanent Secretary of the Ministry of Education, Science and Technology. She currently serves as the Head of Service of Ekiti State.

Dr. Olomojobi has received several awards for excellence in leadership and public service. She is also a member of the Nigerian Medical Association and the pioneer President of the Medical Women's Association of Nigeria, Ekiti State Branch.

AWARD: LIFE MEMBER



Professor Abimbola Adebisi Baale is a distinguished Nigerian academic, researcher, technology scholar and university administrator with over two decades of experience in higher education. She is a Professor of Computer Science and has served in several academic and administrative capacities, including Vice Chancellor of Westland University, Iwo, ICT Director, Faculty Deputy Dean, Department HOD, Guest House and Catering Services Director, and Professor at Ladoke Akintola University of Technology (LAUTECH), Ogbomosho.

An Alumnus of Federal Government Girls' College, Owerri, she holds B.Tech., M.Tech. and Ph.D. degrees in Computer Science from LAUTECH and is a Fellow of the Nigerian Computer Society, a member of the Computer Professionals Registration Council of Nigeria, the Association for Computing Machinery (and the Women Wing), and Nigerian Women in Information Technology. She is also a Fellow of the Institute of Policy Management and Leadership Development.

Her research interests span Data Science, Machine Learning, Soft Computing, Data/Web Mining, user application development, and technology for societal development. She has authored numerous scholarly publications and has supervised undergraduate and postgraduate research. She is Carbon Literate and her current work also includes Carbon Literacy and youth employability in Sub-Saharan Africa through a British Council-supported international collaboration.

Prof. Baale is passionate about mentoring young people and advancing the participation of women and girls in science, technology and innovation. Her contributions to education, research, leadership, gender inclusion and societal development have earned her several recognitions.

AWARD: LIFE MEMBER



PROFILE OF AWARDEES



Professor Charity O. Aremu is a distinguished academic, researcher and university administrator, and the **Vice-Chancellor of Venite University, Iloro-Ekiti, Ekiti State**. She is a Professor of Crop Improvement, Plant Breeding and Sustainable Agriculture, with extensive experience in teaching, research, postgraduate supervision and university administration.

Professor Aremu obtained her Bachelor's degree in Agricultural Biology from the University of Ibadan in 1992, graduating as the Best Graduating Student. She subsequently obtained a Master's degree from the University of Ibadan and a PhD in Plant Breeding and Sustainable Agriculture from the Federal University of Agriculture, Abeokuta.

She began her academic career at Ladoke Akintola University of Technology, Ogbomosho, where she rose through the ranks to become a Professor in 2011. She later joined Landmark University, Omu-Aran, where she served in several leadership capacities, including Head of Department, Dean, Director of the African Agripreneurship Development Centre and Dean of the School of Postgraduate Studies. She also served as Vice-Chancellor of Landmark University before her appointment as Vice-Chancellor of Venite University.

Professor Aremu is a prolific researcher with over 100 peer-reviewed publications and book chapters. Her research interests include crop improvement, sustainable agriculture, drought-resistant crops and agricultural value chains. She has attracted research funding and contributed significantly to agricultural research and capacity development.

Her professional service includes participation in NUC accreditation exercises, external examining, academic boards and editorial activities. As Vice-Chancellor, Professor Aremu continues to promote academic excellence, innovative research, entrepreneurship and impactful education aimed at producing graduates capable of contributing meaningfully to society.

AWARD: LIFE MEMBER



Professor Egunoluwa Aderonke Adejuyigbe is a distinguished Nigerian Paediatrician, neonatologist, researcher, and academic leader. She became Professor of Paediatrics and Child Health at Obafemi Awolowo University (OAU), Ile-Ife, in 2007 and served as Consultant Neonatologist at the Obafemi Awolowo University Teaching Hospitals Complex (OAUTHC).

She has held several pioneering and strategic leadership roles, including being the first female Dean of the Medical School at OAU, Executive Director of the Central Office of Research, and President of the Osun State Medical Women Association. She has also served on and chaired key institutional and national boards and committees in ethics, research, child health, and postgraduate medical training.

Her research spans critical areas including neonatal survival, infectious diseases, and early childhood development. She has advanced efforts to improve early diagnosis, treatment access, and long-term outcomes for HIV-exposed and infected children in resource-limited settings.

She has led and participated in major international studies funded by organisations such as the Bill & Melinda Gates Foundation and the World Health Organisation (WHO). Through grants awarded to her, Africa's first Mother-Newborn Intensive Care Unit was established at State Hospital Asubiaro, Osogbo.

Her global engagement includes service on WHO-convened working groups, international planning committees, and data safety monitoring boards (DSMB) for major clinical trials, including Ebola vaccine studies and COVID-19 therapeutic trials. She is a recipient of several prestigious awards and fellowships.

In March 2025, she was appointed Vice-Chancellor of the University of Medical Sciences, Ondo, where she continues to champion excellence in education, research, and mentorship.

AWARD: LIFE MEMBER



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OAK- PARK



KEYNOTE AND PLENARY SPEAKER'S ABSTRACTS

TITLE: "LET'S ANTICIPATE THE FUTURE! - THE VALUE OF SYSTEMS THINKING AND SYSTEM DYNAMICS IN THE MANAGEMENT OF COMPLEX SUSTAINABILITY CHALLENGES"

Professor Stefano Armenia

Contemporary sustainability challenges—ranging from climate change and resource depletion to food insecurity and socio-economic inequities—are inherently complex, dynamic, and interconnected. In developing regions, particularly across Africa, addressing these multifaceted issues requires moving beyond traditional, linear problem-solving approaches that often result in policy resistance and unintended consequences.

This keynote address highlights the pivotal role of Systems Thinking (ST) and System Dynamics (SD) as transformative frameworks for navigating systemic complexity and anticipating future challenges. Systems Thinking provides a holistic conceptual lens to map interdependencies, identify feedback loops, and uncover root causes of socio-ecological issues. Complementing this, System Dynamics offers quantitative computer simulation modeling to test policy scenarios, evaluate long-term trade-offs, and analyze time delays in a risk-free environment before real-world implementation.

By shifting decision-making from reactive fire-fighting to proactive foresight, ST and SD empower researchers and leaders to identify high-leverage interventions for sustainable development. In line with the core mission of the OWSD Conference at Obafemi Awolowo University, this presentation underscores how women in science and innovation can leverage system-based methodologies to champion evidence-based policy formulation, strengthen regional resilience, and actively shape a sustainable future for Africa and beyond.

SCIENCE OUT OF A BOX: MULTIDISCIPLINARY AND TRANSDISCIPLINARY APPROACHES FOR SOCIETAL IMPACT

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The traditional way of conducting scientific research—known as the siloed approach, has become increasingly insufficient to deal with complex societal challenges such as widespread pollution, climate change, social inequities and biotechnology. Of increasing relevance is the new scientific thinking that draws away from the “Science outside of the Box” ideology to processes that promote multidisciplinary and transdisciplinary to scientific research prioritizing societal needs over academic discipline. This research approach termed the “publish for impact” ideology is the new thinking for progress in science and related fields. Multidisciplinary approach includes multiple disciplines (physical, chemical, biological and earth sciences) working together towards a common goal, whereas a transdisciplinary approach combines the academic knowledge of different disciplines (science, arts, technology, education and social sciences) with the expertise of the “real world” to co-create solutions for actionable outcomes that drive societal successes. Using a combination of case studies related to aquatic pollution, agriculture and human health, our studies demonstrate that breaking down disciplinary silos promotes innovation and produces culturally relevant, socially acceptable and scientifically valid outputs. This type of transformation will require significant institutional and systemic changes to achieve the desired impact for accelerated growth particularly for developing economies like Nigeria.

Keywords: Multidisciplinary, Transdisciplinarity, Societal Impact, Knowledge Co-creation, Science Communication and Policy

OLUFOLAKEMI GBONJUBOLA OLOMOJOBI

Head of Service, Ekiti State

In an era defined by complex challenges and rapid changes, the ability to effectively translate scientific research into tangible societal benefits is paramount for national development. This “plenary address”, building upon the overarching theme of “Systems Thinking and Innovation,” will explore the pivotal role of the civil service as a Systems Coordinator—the essential bridge transforming academic insights from the “lab” into practical, real-world impact that touches every citizen’s life. Drawing on the unique experiences and strategic initiatives within Ekiti State, we will demystify the process of “research-to-policy translation”, presenting it, not as a complex academic exercise, but as a dynamic Evidence-Action Loop that connects diverse stakeholders. We will introduce frameworks such as the “Common Language” approach and the “Kitchen Table Test” for policy, demonstrating how public servants, scientists, and policymakers can collaboratively co-create solutions across sectors like agriculture, infrastructure, and human capital development. The aim is to foster a shared understanding and inspire collective action, empowering every participant to contribute to a more responsive, evidence-informed, and innovatively driven national development agenda.



TITLE: SYSTEMIC THINKING IN SOLVING NATIONAL AND GLOBAL HEALTH CHALLENGES

PROF OLAYINKA ABIMBOLA OLASODE FWACP, FACP, IFAAD

PROFESSOR OF INTERNAL MEDICINE, DERMATOLOGY AND VENEREOROLOGY

*DEPARTMENT OF DERMATOLOGY AND VENEREOROLOGY, COLLEGE OF MEDICINE
OBAFEMI AWOLOWO UNIVERSITY, ILE IFE*

Systemic thinking is a comprehensive analytical approach to understanding how different elements interact within a system or structure. Systemic thinking is a powerful problem-solving approach using tools and methods.

Systems thinking in national and global health comprises of a holistic approach focusing on how human behavior, environmental conditions, and medical infrastructure interconnect. It looks past single diseases, to a bigger picture and inter connectivity where every action creates a chain of consequences.

Global health focuses on improving health and achieving health equity for all people worldwide, addressing transnational health issues, and managing cross-border health threats. Global health practices controls pandemics, create health equity between rich and resource limited nations, manage environmental threats, climate change impacts and non communicable diseases.

National health services in Nigeria are coordinated primarily through key federal bodies including the Federal Ministry of Health and Social Welfare that sets national policy and standards, the National Health Insurance Authority, and the National Primary Health Care Development Agency that covers the grassroots.

However, health is influenced by policies beyond the health sector and there is need to collaborate with education, agricultural practices, sanitation, housing, transportation and the environment. An effective system seeks to identify the relationships between these factors and provide interventions for sustainable improvements

TITLE: FROM PAPER TO PRODUCT: REWIRING THE INNOVATION ECOSYSTEM FOR HIGH-IMPACT UNIVERSITY-INDUSTRY PARTNERSHIPS
PROF. GRACE OLUFUNMILAYO OGUNLUSI

Director, Intellectual Property Technology Transfer Office, OAU

Universities are hubs for the creation of knowledge and innovative solutions that address societal and economic challenges. However, the translation of research into tangible impact is often constrained by weak university-industry linkages, limited commercialization capacity, and inadequate utilization of intellectual property (IP). Strengthening collaboration among universities, industry, government, investors, and other stakeholders is therefore essential for fostering sustainable innovation-driven growth.

This plenary lecture examines how Nigerian universities and research institutions can systematically rethink, restructure and reposition their innovation ecosystems to foster strong and sustainable industry partnerships. It analyses the interconnectivity among strategic university-industry collaboration, Technology Transfer Offices and national policy framework, demonstrating how their alignment facilitates the translation of research into valuable products, services and innovations.

Drawing on global best practices, Nigerian case studies and institutional experience, the lecture introduces an integrative Partnership-to-Prosperity Framework (IPPF) as a practical model for strengthening industry partnerships and transforming research into innovations. The IPPF is also supported by the proposed Three Ps of Research Impact—Partner, Protect, and Prosper—a strategic approach for researchers and institutions to accelerate innovations. The framework emphasizes the importance of fostering cross-sectoral knowledge co-creation to solve complex societal challenges and translate research into sustainable economic and social values.

This presentation demystifies the commercialization journey, guiding researchers on strategies for aligning research agendas with market realities and building resilient partnerships. It challenges female researchers to lead Nigeria's innovation drive. It concludes with actionable recommendations for universities, industry, policymakers, and researchers to strengthen innovation ecosystems.



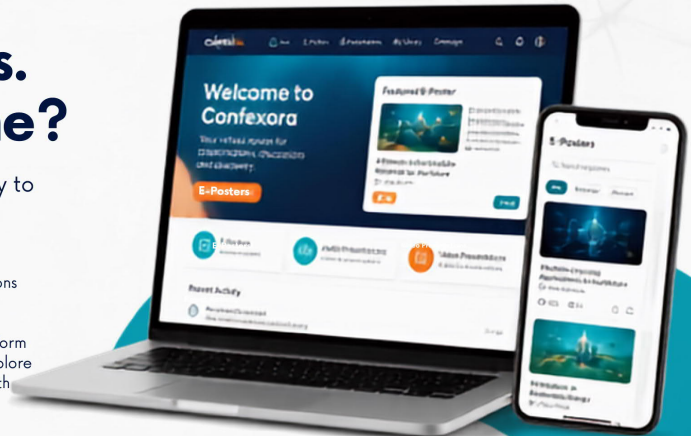
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