

Women in Nuclear Global Conference

14-18 JULY 2025, LONDON

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Alexandra Night STEMAZING



IN ASSOCIATION WITH



WIN GLOBAL CONFERENCE PRIMARY STEM COMPETITION



UK Atomic
Energy
Authority

WHY IS STEM OUTREACH NEEDED?

£1.5
bn

Annual cost of
STEM skills
shortage to UK
economy

Only
12%

Girls say being an
engineer fits with
who they are

By
age
10

Children create
career-limiting self
beliefs which are
fixed by age 14

X 3.4

More likely to
consider a career in
engineering after
STEM session

MARVELLOUS MAGNETISM WORKSHOP

Engaging young children with **relatable STEM role models** and **hands-on STEM activities** linked to real world problem-solving and innovation.



In only 2 months we -

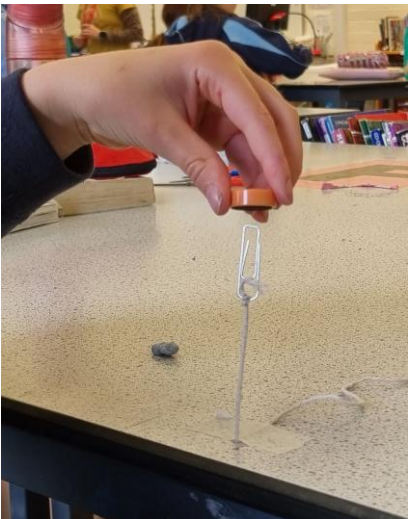
Reached
>5,000
young children

Our survey showed -

94% children enjoyed the workshop

81% learnt more about how STEM makes a difference in the World

71% Are interested in learning more about STEM jobs

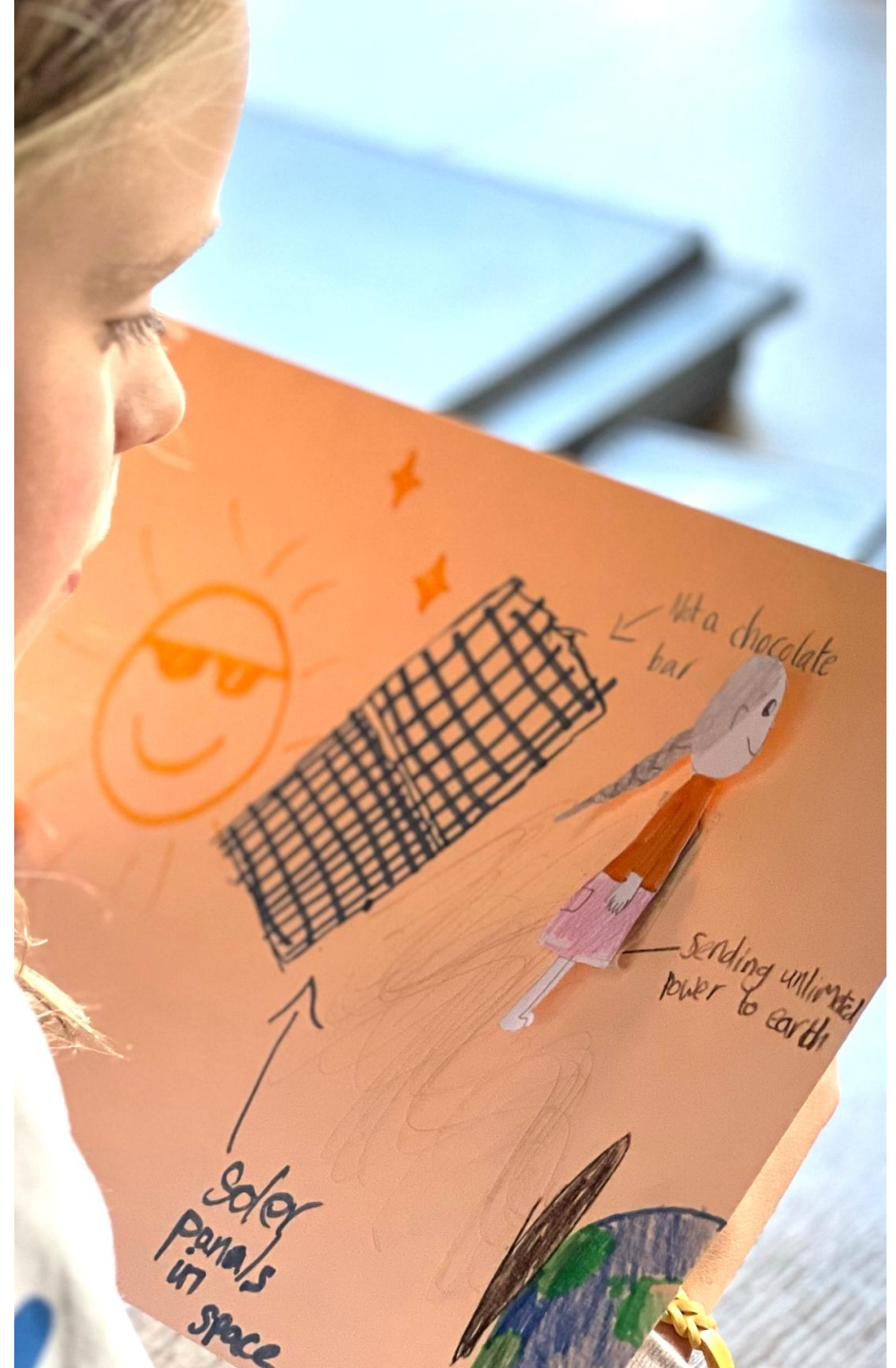


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Be a future STEM Superhero

What
would
YOU
design to
create
limitless
energy?





RENEWABLE ENERGY

HOW CAN WE USE RENEWABLE ENERGY?

WE NEED TO CHANGE NOW!

You can use it all the time

water can be converted to energy

Wind can be converted to energy

sun can be converted to energy

Renewable energy is perfect for the planet because you can use them again and again!

help the environment!

Wind turbine

ECO FRIENDLY ENERGY

1

SOUND ENERGY

The more sound there is, the more energy the sound detector creates.

Wind (creating energy) sturdy stand panel that detects all the noise.

It creates more energy in a city as there is more sound. There is no people in a city so there will be "noisy" energy for everyone.

sound detector

as a car (honks) as a person (screams/shouts)

It is a bird is tweeting as a dog barks

20

PLAN Phone Charge

Ellie 8*

underground

PLAN Wind + Sun = Fire

ECO PLANET

7

GEOthermal energy

Geothermal energy is thermal energy generated and stored in the earth. It is always hot underground, even if it is very cold on the surface.

We can collect heat from underground and use it to heat our houses.

RENEWABLE

Save our planet from evil!

13

RENEWABLE ENERGY!

We make it by natural sources like the wind, sun and even water!

SOLAR ENERGY!

WIND ENERGY!

Solar Energy is the best when we use it we don't ruin our planet

10

the 3 in 1 energy Source

100% Water Proof

Rain-tastic Power!

So Amazing Energy.

Provides only 3 can detect AAR battery fish if it goes inside!

Depending on how big a wave is that's the energy

3 in 1 ELECTRICITY Source of energy

8

GET INVOLVED!

We want more role models to run this **Marvellous Magnetism workshop** with Primary School children.

Everything you need to get you started is here -

<https://www.stemazing.co.uk/win-ukaea-stem>



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Role of WiN-Pakistan for Strengthening Women in Nuclear Science & Technology

Dr. Samreen Shehzadi
Secretary WiN-Pakistan



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WiN- Pakistan

A forum of professional women in nuclear and allied disciplines

(Medicine, Agriculture & Biotechnology, Environment, Energy and Radiation applications).

Vision

- **To build a stronger and empowered network of women working in nuclear field**
- **To create understanding and public awareness about the beneficial uses of nuclear techniques for socio-economic development.**
- **To urge and generate interest among young girls to adopt careers in nuclear S&T**



IN ASSOCIATION WITH



Achievements /Greatest Impact

- First International WiN-P Conference
- Enhanced WiN-P Visibility at International Forums
- International Collaboration (WiN IAEA, WiN Global)
- Mentorship Programme
- Awareness Sessions for Young Girls

WiN Pakistan First International Conference

February 12-13, 2025, Islamabad



International Conference on the **OPPORTUNITIES FOR WOMEN IN NUCLEAR SCIENCE & EMERGING TECHNOLOGIES**

Organized by:



PNRA Headquarter, Islamabad, Pakistan

Collaborators:



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Special Session with DG IAEA

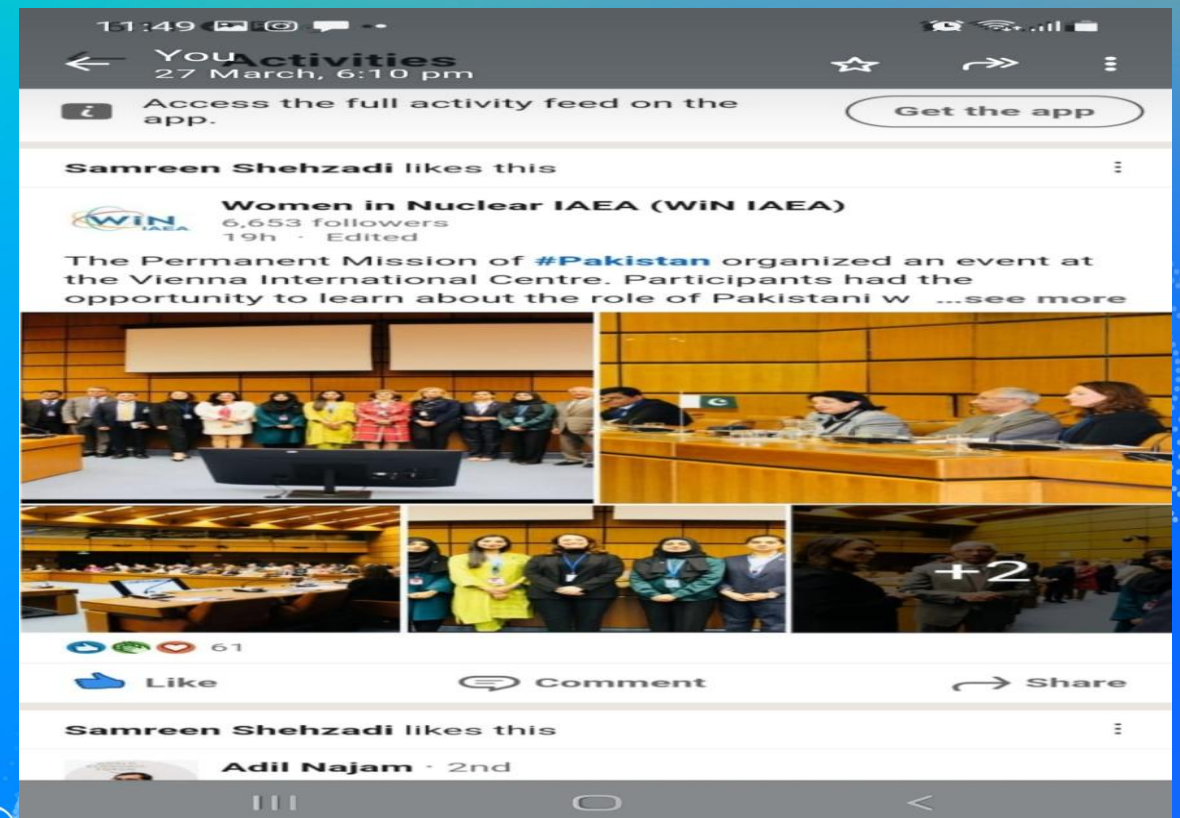


EVENT AT VIENNA INTERNATIONAL CENTRE

Role of Pakistani Women in Nuclear Science and Technology

ORGANIZED BY

PERMANENT MISSION OF PAKISTAN & WIN-PAKISTAN
MARCH 7, 2024



WiN-Pakistan Seminars/ Meetings



Seminar for Women from Syria AEC



Seminar at NIBGE, Faisalabad



WiN Awareness Sessions for Young Girls in Colleges, Universities



Fatima Jinnah Women University, Rawalpindi, May 21, 2025



PAEC Model College, Islamabad, May 29, 2024



Preston University, Islamabad



PIEAS Students at PINSTECH April, 2024

Thank You



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Together we can build a
Stronger & Empowered
Network of Professional
Women in Nuclear Science

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WOMEN IN NUCLEAR TANZANIA CHAPTER

- Presented by
 - Prof. Najat K. Mohammed
 - President of WiN Tz

CHAPTERS' ACTIVITIES

- Community awareness on applications of nuclear technology in clinical settings and for specific types of cancer



Organizes and conduct webinars



Outreach programs in secondary schools and universities



Disseminates opportunity on scholarships , National and International training programmes

- Initiated Mentorships Programmes within the country and encourage members to apply whenever there is a call internationally.

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WOMEN IN NUCLEAR KENYA

WiN Kenya continues to promote gender equity, nuclear advocacy, and professional growth in nuclear science through impactful mentoring, outreach, and capacity-building initiatives.

1. COLLABORATION WITH IAEA

Regional (AFRA) Workshop for Future Leaders in Nuclear in Africa. Participants from 22 countries (Young Nuclear Professionals)





2. MENTORSHIP – ONLINE AND IN PERSON SESSIONS



3. NUCLEAR CLUBS IN SCHOOLS



NOVA PIONEER SCHOOL

WiN Kenya collaborated with The Kenya Young Generation in Nuclear Society to launch the 'Inaugural Nuclear Club in High Schools'





4. WEBINAR SERIES

Successful Stories of Women in Nuclear Applications:

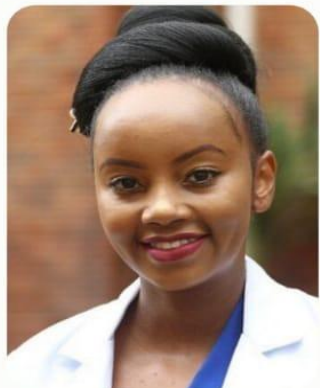
- Dr. Elizabeth Itotia
- Prof. Miriam Kinyua
- Dr. Dorcus Mbithe





ZOOM WEBINAR SERIES HOSTED BY WiN-KENYA

SPEAKER



Dr. Elizabeth Itotia
Radiopharmacist

TOPIC: PRODUCTION
METHODS FOR COMMONLY
USED
RADIOPHARMACEUTICALS

SPEAKER



Dr. Jeffrey Jooma
Nuclear Medical Physician

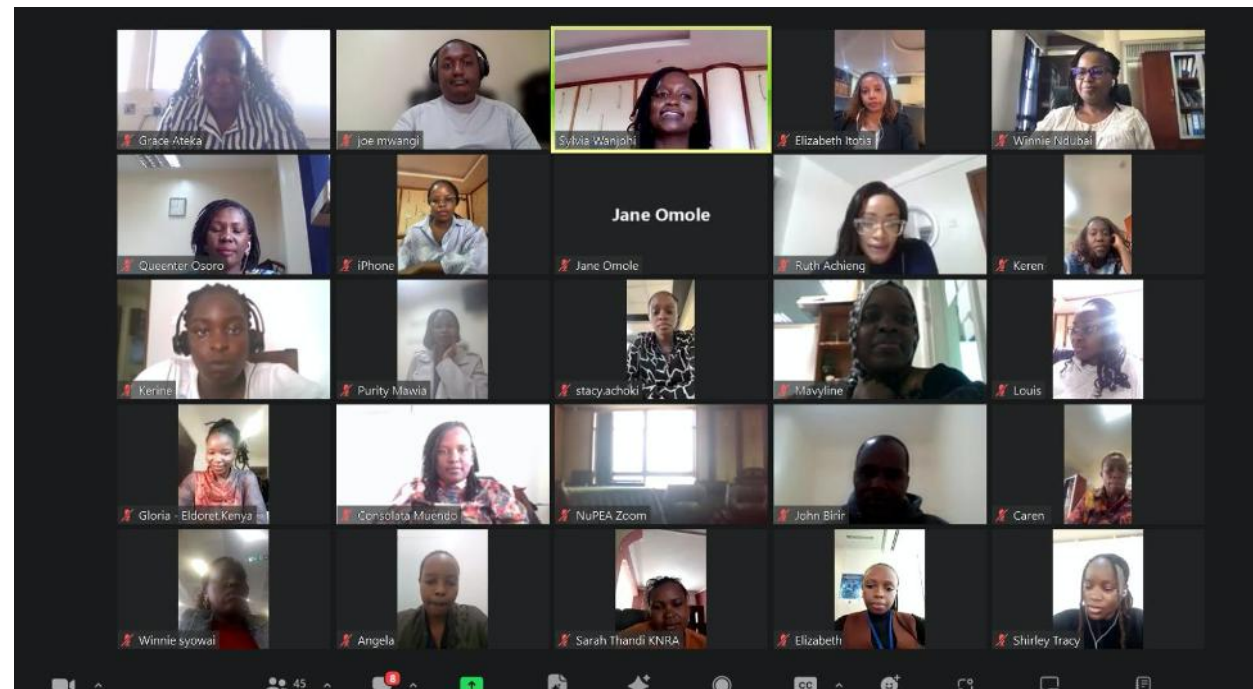
TOPIC: NUCLEAR
MEDICINE DIAGNOSTIC
AND THERAPEUTIC
APPLICATIONS

SPEAKER



Dr. Pamela Kilavi
Lecturer, Strathmore Uni.

TOPIC: PROBABLE
HUMAN CARCINOGENS



5. COFFEE TALK WITH NUCLEAR SECURITY WOMEN (NSW)



- Networking opportunities
- Exchange of experiences
 - learning opportunities
- Best practices exchange
- Workshops in Kenya



E:mail: womeninuclear@nuclear.co.ke

X: @WiN_Kenya

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Australia Chapter Report

Presented by: Tina Baradaran

Vice President of WiN Australia



IN ASSOCIATION WITH





5 MINS WITH A NUCLEAR ENERGY COMEDIAN

WE SPOKE TO **TINA BARADARAN**, THE PRESIDENT OF UNSW STUDENT NUCLEAR SOCIETY, ABOUT HOW SHE'S MIXING NUCLEAR ENGINEERING WITH EDUCATION, COMMUNICATION AND COMEDY TO BUILD HER DREAM CAREER!

CwS: Hey Tina! Give us your best nuclear joke...
T: What do nuclear power plants and tea kettles have in common? They both generate steam to get things boiling!

CwS: How did you get into nuclear?
T: I was drawn to nuclear education and science communication due to my passion for physics and teaching. My PhD focuses on determining the best methods to educate and train Australia's future nuclear engineers, ensuring we have a highly skilled workforce for operating nuclear reactors. Humour is a powerful tool for capturing interest, simplifying intricate concepts, and addressing misconceptions about nuclear energy.

CwS: Why do you think high school students should study nuclear engineering?
T: Nuclear is currently exploding (with lots of job opportunities) in Australia, and it's the only hot and fancy engineering field where you can literally have a blast while keeping everything under control! Plus, you'll always be at the core of the action, making it the coolest (and safest) job around!

CwS: What traits are helpful in this field?
T: Being cool, calm and collected. Add these traits to a dash of nuclear curiosity and a sense of humour, and you'll be competent to handle the "hot" aspects of the job!

SCAN HERE OR VISIT BIT.LY/3WH2YVI TO WATCH TINA DO NUCLEAR STAND-UP!

BACHELOR OF MEDICAL RADIATION PHYSICS, UNIVERSITY OF MQLONGONG >>> **MASTER OF PHILOSOPHY (MEDICAL RADIATION PHYSICS RESEARCH), UNIVERSITY OF MQLONGONG** >>> **ASTRONOMER GUIDE, SYDNEY OBSERVATORY**

MASTER OF TEACHING (PHYSICS AND MATHS), UTS >>> **EDUCATION OFFICER, ANSTO DISCOVERY CENTRE** >>> **PHD CANDIDATE/EARLY CAREER RESEARCHER IN NUCLEAR ENGINEERING EDUCATION, UNSW**

5 NUCLEAR ENGINEER



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