

Women in Physics transforming daughters to think tanks

Mmantsae Diale

Contents



Discovering talent

I was on sabbatical in a country where they have a program that follows children from pre-primary to high school with an aim of discovering talent.

Addressing GBV

GBV is real - that is it is internationally recognized as pandemic that hinders women from progress in life.

MENTOR

A mentor is

Remembrance

GBV is real - that is it is internationally recognized as pandemic that hinders women from progress in life.

Discovering Talent - The girl child

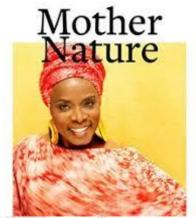




Angeline Kidjo







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Diacovering Talent - The girl child





NHLAMU effects



www.gradesmatch.co.za



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Leading women farmers: Remove poverty







Women empowerment projects: Physics everywhere







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The idea: 1999



There are notably fewer women than men, worldwide, in PHYSICS.

Numbers also decrease with each step up the career ladder, in both the academic and research (industrial and government laboratories) environments.

In response to concerns about this situation, the IUPAP established a Working Group on Women in Physics in 1999 with a mandate to survey the situation of women in physics, worldwide, and suggest ways to improve it.

Lets work together: from generation to generation



EVENTS 2005

- Steeringf Committee
 - MD CHAIR
 - IG, DG, ZB, PS, Sarah Buchner and DSI: Byren Archary and Tshepo Seekoe, JB Malherbe (UP)
 - Discussed possible issues, expected outcomes and conference programme.
- Pre-conference workshop
 - Held at High Performance Centre 16 September 2005
- Key Values identified:
 - Diversity, inclusivity, Redress and Quality.



Paris Conference







Launch conference

- Haram Moral How ar you able to manage so many women and no fights?
 - 65 delegates, 7 male inclusivity,
 - World conference on Sustainability Nigeria, Senegal, Sudan, Germany, Argentina, Brazil, USA represented
 - NRF, DSI, SAASTA, DoHelath, CSIR, Almost all Universities
 - Speakers: DG, Adi Patterson, Marcia Barbosa, Zorahr Ben Lakdar, etc.

Nobel Prize in Physis



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Of 117 years of Nobel Prize, only 4 women won the PRIZE in physics

1903 Nobel Prize



Marie Slowdoshka Curie

1963 Nobel Prize



Maria Goepert Mayer

2018 Nobel Prize



Donna Strickland

2020 Nobel Prize



Andrea Gets

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2020 Nobel Prize

- Since 1901, when the annual Nobel Prize in Physics was first awarded, it has been given almost exclusively to men, year after year.
- Donna Strickland, a Canadian who is an associate professor of physics at the University of Waterloo, received the prize on Tuesday for her work on highintensity laser pulses.
- Dr. Strickland, 59, shared the award with the French physicist Gérard Mourou, 74,
- with whom she was working as a graduate student when they published a groundbreaking scientific paper in 1985; and
- Arthur Ashkin, 96, an American scientist who pioneered a way of using light to manipulate physical objects.

Nobel Prize in Physis



SAD STORY

In 1967, Jocelyn Bell Burnell was a graduate student at Cambridge, working on a dissertation about strange objects in distant galaxies known as quasars.

She and her supervisor, Antony Hewish, had built a radio telescope to observe them. Data from the telescope scrolled out from a machine — a line in red ink, scrawling across 96 feet of chart paper each day.

In 1974, They Gave The Nobel To Her Supervisor. Now She's Won A \$3 Million Prize





Physics Families

Prof Pieter Stoker

R Plastino and AR Plastino

2 Daughter in Physics

1 Grandson in Physics: Prof TPJ Kruger

Prof Simon Connel - Daughter in Physic.

Prof Phuti Ngoepe

Dr Phuti Ngoepe

Lets work together: from generation to generation

Addressing GBV



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Who is a mentor?



A mentor is someone who has been there, done that, learned from the experience and is willing to share.

 A mentor is someone who helps other people to reach their full potential

The emphasis is always on enabling and empowering the person to do things for themselves.



Remember my mentors



My Mother and Victor.

Matlou and Kgobane

Prof Sophie Mogotlane

Prof Cushie Mathabe

Dr Botlhale Tema

Mmane Mmule









Take home message

- 1. FOCUS
- 2. FOCUS
- 3. FOCUS
- 4. STUDY



JOSEPH SIMFUKWE

