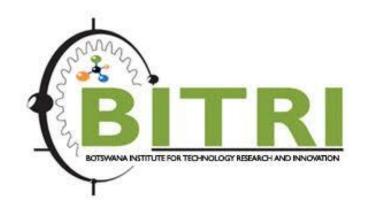


African Materials Research Society





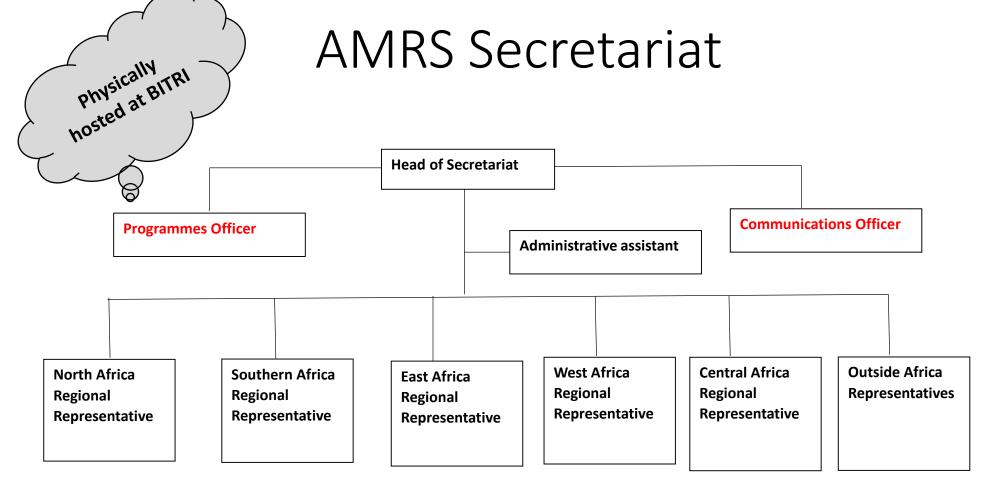
Samuel Chigome Senior Researcher, Nanomaterials, BITRI Head of Secretariat and President, AMRS



Main objective

Promote excellence in all aspects of materials research in Africa.





Objectives

- 1. To ensure involvement and coordinated participation of all 55 countries in the activities of AMRS.
- 2. To establish a sustainable source of funds for AMRS activities.

http://africanmrs.net/



Biennial AMRS conferences

SAVE THE DATE"

11th International Conference of the African Materials Research Society



AMRS2021

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

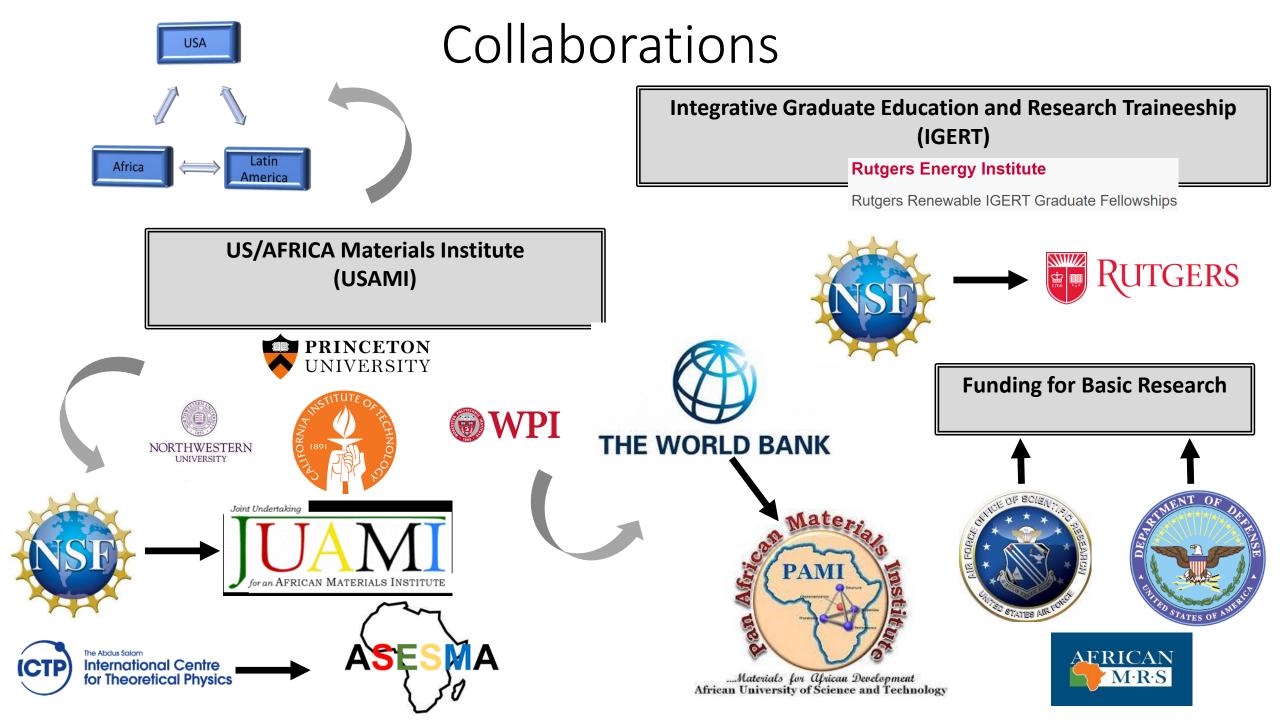
<u>Contact</u>: Prof Balla Diop Ngom <u>Email</u>: balla.ngom@ucad.edu.sn / <u>Website</u>: https://africanmrs.net

https://africanmrs.net/senegal-2021/

➤ 1st - Senegal, 2002

- ➤ 2nd South Africa, 2003
- > 3rd Morocco, 2005
- ➢ 4th Tanzania, 2007
- ➤ 5th Nigeria, 2009
- ➢ 6th Zimbabwe, 2011
- ▶ 7th Ethiopia, 2013
- ➢ 8th Ghana, 2015
- ➢ 9th Botswana, 2017
- 10th Tanzania, 2019
- ➤ 11th Senegal 2021
- 12th Rwanda 2023





BITRI research areas

Mandate: Needs based research leading to product development

TECHNOLOGIES

- 1. ICT
- 2. Electronics
- 3. Energy

NATURAL RESOURCES AND MATERIALS

- 1. Nanomaterials
- 2. Building Materials Science
- 3. Climate change



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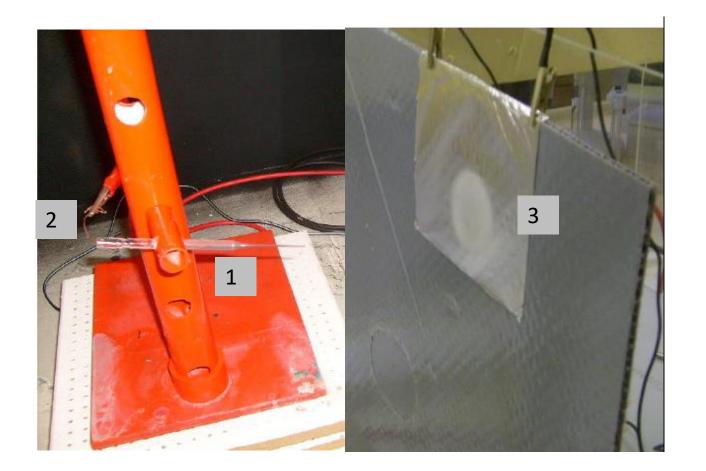
BITRI CENTRE FOR MATERIAL SCIENCE



- Instruments Specialists responsible for Centre.
- Funding model for sustaining Centre "RESOURCE CENTRE"



Simplest electrospinning set-up





Chigome et al., Journal of Materials Science, 45: 713-718, 2010 Chigome et al., International Journal of Polymeric Materials, 59:863–872, 2010



5 laboratory scale electrospinning units



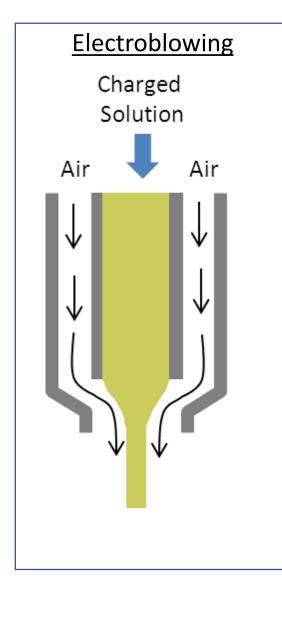


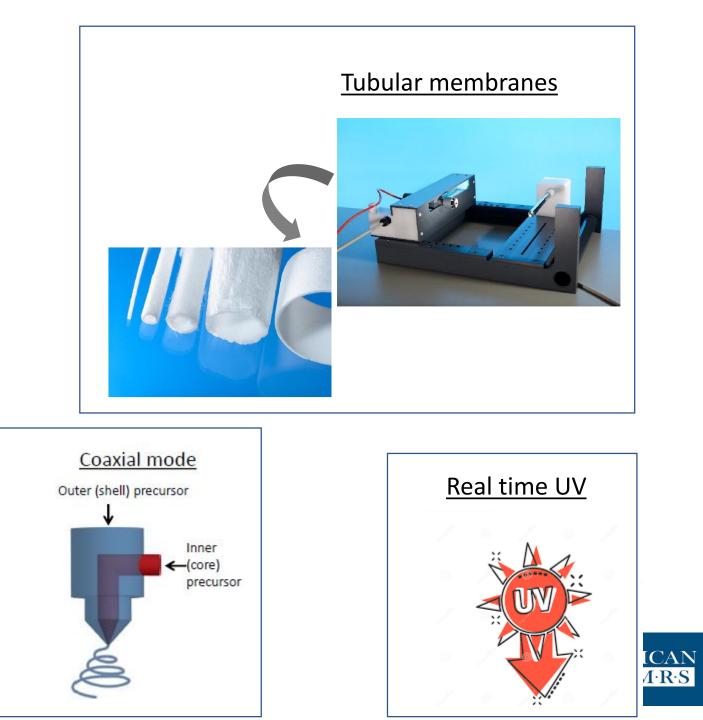












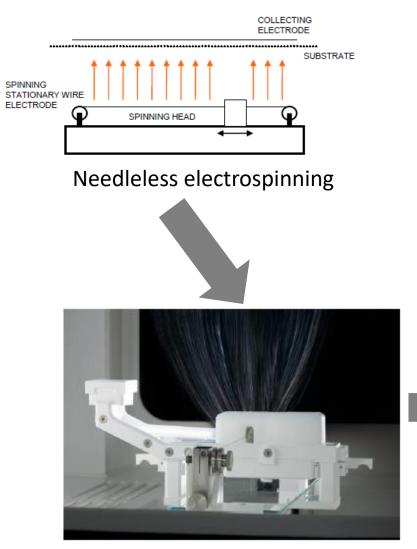
2 pilot scale electrospinning units







Nanofiber membrane fabrication

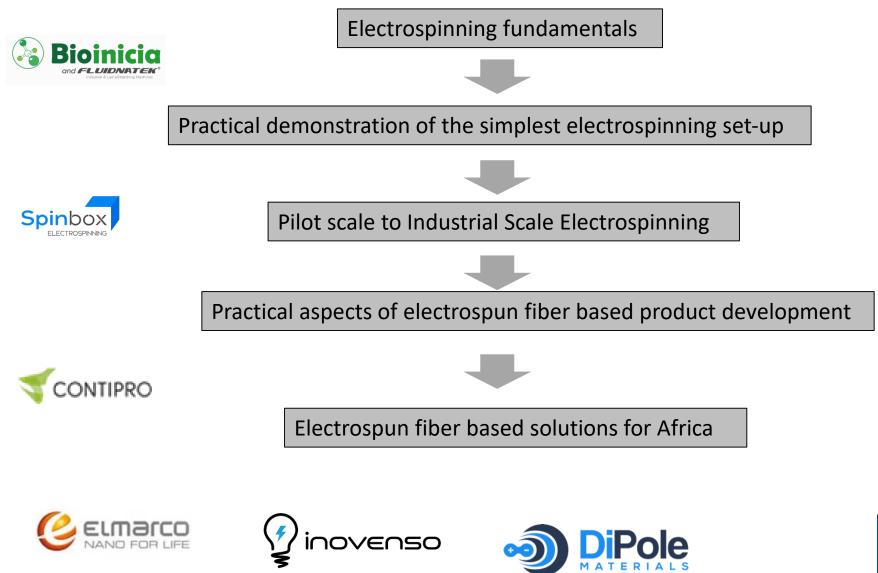


Electrospinning head

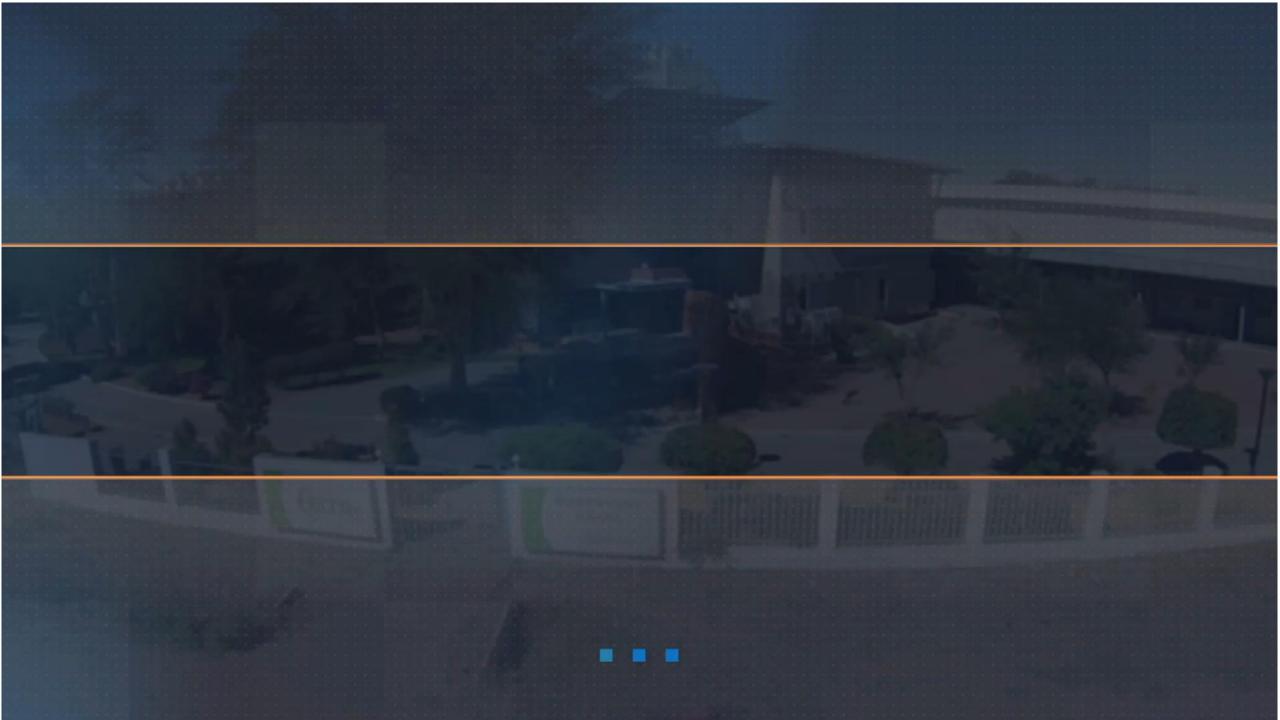




Promoting Electrospinning in Africa







Going forward

- 1. Biennial conferences
- 2. Collaborations/Research visits
- 3. Hands on workshops
- 4. Theoretical workshops
- 5. Strategic engagements (Triple helix)



Thank you

