

# African Strategy for Fundamental and Applied Physics

Pan-African, gender balanced and inclusive

**Mandating Body : African Physical Society (AfPS)**

**Steering Committee: [ASFAP-SteeringCommittee@cern.ch](mailto:ASFAP-SteeringCommittee@cern.ch)**

- **Dr. Kétévi Adiklè Assamagan** (BNL, USA), [ketevi@bnl.gov](mailto:ketevi@bnl.gov)
- **Prof. Simon Connell** (University of Johannesburg, SA), [si@mykonos.org.za](mailto:si@mykonos.org.za)
- **Prof. Farida Fassi** (Mohammed V University, Morocco), [farida.fassi@cern.ch](mailto:farida.fassi@cern.ch)
- **Prof. Shaaban Khalil** (CFP, Zewail City, Egypt), [skhalil@zewailcity.edu.eg](mailto:skhalil@zewailcity.edu.eg)
- **Dr. Fairouz Malek** (CNRS and Grenoble Univ., France), [fmalek@lpsc.in2p3.fr](mailto:fmalek@lpsc.in2p3.fr)



**Web :** <https://africanphysicsstrategy.org/>,

**Wiki :** <https://twiki.cern.ch/twiki/bin/view/AfricanStrategy>

**Twitter:** <https://twitter.com/StrategyAsfap>

# Outline

- Motivation
- Structural Organization
- Timeline
- Endorsement and Support
- How can you get involved?

# The African Strategy

## 1. Objectives

- a. Develop a Strategy to increase African education and research capabilities, improve collaborations, and inform international partners, sponsors, policymakers on the strategic directions likely to impact African development
- b. Engage African scientists and the international community in the Strategy development
- c. The process was launched in November 2020; gained traction in July 2021 during the Community Town Hall
  - i. Second year of active engagement to explain the purpose a strategy and motivate community involvement
- d. This inaugural African Strategy to set the foundation and framework to draw the participation of African physicists —with inputs from the international communities—in defining education and physics priorities most impactful for Africa

## 2. Structure

- a. Broad footprint by discipline and fields
- b. Steering Committee, Advisory Committee, Group Conveners, Sub-group Conveners
- c. Solicitation of inputs from the community in the form of Letters of Interest (LOI), Surveys, Panel Discussion, Workshops, Conferences, regular meetings, and white paper Study Groups
  - i. Progress discussed in the relevant groups
  - ii. Subgroup and group final reports (at the subgroup and convener levels); Strategy report at the Steering Committee level
  - iii. Feedback and advice from the IAC

# Structure and Organization

- Overall coordination
- Final report

## ASFAP Organization

- Review of progress
- Advice on scope
- Engage of stakeholders
- Review and endorsement Report

### Steering Committee

### International Advisory Committee

- ASFAP CoC
- Ombudspersons

### Physics Working Groups

### Ethics Committee

### Observers Committee

- Intra-comms
- Review LOIs and WPs
- Help WGs in editing

### Physics Sub - Working Groups

### Community Engagement

### Physics Education

### Women in Physics Forum

### Young Physicists Forum

- Wide solicitation of community inputs
- Preparation of Group reports

Physics Education, Knowledge Transfer, Entrepreneurship, Communication and outreach, Stakeholders and Funding and Govt agencies, Policy Makers, related affairs.

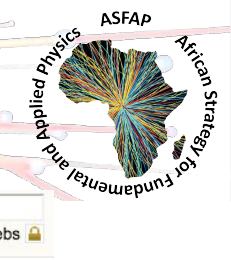
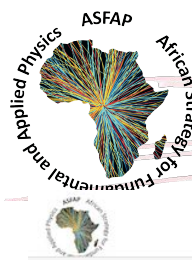
- WG has 3-4 Convenors
- WG defines Sub WGs



<https://africanphysicsstrategy.org/>

<https://africanphysicsstrategy.org/>





# ASFAP Twiki ..... structure, activity

Jump  Search  AfricanStrategy  All webs

Log In AfricanStrategy

Twiki > AfricanStrategy Web > AfAtomicMolecularPhysics (2021-10-05, KeteviAssamagan)

Edit Attach PDF

## Atomic and Molecular Physics Working Group

This is the working group on atomic and molecular physics in Africa. The group is convened by three experts and may be subdivided into subgroups for a more efficient management

Mailing list: ASFAP-AtomicMolecular[at]cern.ch

### GROUP CONVENERS

Co-conveners Mailing list: ASFAP-AtomicMolecular-admin[at]cern.ch

NAME	AFFILIATION	EMAIL	Gender	African origin/Diaspora
Dr. Obinna Abah	Queens U. Belfast	O.Abah[at]qub.ac.uk	M	Nigeria
Dr. Stephane Kenmoe	U. of Duisburg-Essen	stephane.kenmoe[at]uni-due.de	M	Cameroon
Dr. Ibrahim Cheik Njifon	Canadian Nuclear Laboratories	cheiknjifonibrahim[at]yahoo.fr	M	Cameroon

### DOCUMENTS

[Code of Conduct](#)

[ASFAP Tips](#)

[Guidelines for Working Groups](#)

### REGISTRATION

To register to this Working Group, go here

### ASFAP

Today   January 2022

Sun	Mon	Tue	Wed	Thu	Fri
26	27	28	29	30	
2	3	4	5	6	

- Log In AfricanStrategy
- DOCUMENTS
  - Founding Document
  - Strategy Report
  - WG Guidelines
- SUPPORTS
  - Endorsement
  - Financial & In-kind
- ORGANIZATION
  - Steering Committee
  - Advisory Committee
  - Group Conveners
- PHYSICS GROUPS
  - Accelerators
  - Astrophysics & Cosmology
  - Atomic & Molecular Physics
  - Biophysics
  - Computing & 4IR
  - Earth Science
  - Energy
  - Fluid and Plasma
  - Instrumentation & Detectors
  - Light Sources
  - Condensed Matter & Materials Physics
  - Medical Physics
  - Nuclear Physics
  - Particle Physics
  - Optics and Photonics

Twiki > AfricanStrategy Web > WebLeftBar > AIEthics (2021-10-05, KeteviAssamagan)

## Ethics Committee

This committee should be responsible of maintaining, updating and disseminating the guidelines. A subset of it may serve as ombudspersons.

### Committee members

Mailing list: ASFAP-Ethics[at]cern.ch

NAME	AFFILIATION	EMAIL	Gender	African origin/Diaspora
Prof. Oumar Ka	Cheikh Anta Diop University, Dakar, Senegal	oumar.ka[at]ucad.edu.sn	M	Senegal
Dr. Samira Hassani	SACLAY France	samira.hassani[at]cern.ch	F	Morocco
Prof. Nithaya Chetty	University of the Witwatersrand	nithaya.chetty[at]wits.ac.za	M	South Africa
Dr. Chilufya Mwewa	Brookhaven National Laboratory	chilufya.mwewa[at]cern.ch	F	Zambia

### DOCUMENTS

[Code of Conduct](#)

[ASFAP Tips](#)

[Guidelines for Working Groups](#)

### ASFAP

Today   December 2021

Sun	Mon	Tue	Wed	Thu	Fri	Sat
28	29	30	Dec 1	Thu 2	Fri 3	Sat 4
5	6	7	8	9	10	11

### DOCUMENTS

- Founding Document
- Strategy Report
- WG Guidelines

### SUPPORTS

- Endorsement
- Financial & In-kind

### ORGANIZATION

- Steering Committee
- Advisory Committee
- Group Conveners

### PHYSICS GROUPS

- Accelerators
- Astrophysics & Cosmology
- Atomic & Molecular Physics
- Biophysics
- Computing & 4IR
- Earth Science
- Energy
- Fluid and Plasma
- Instrumentation & Detectors
- Light Sources
- Condensed Matter & Materials Physics
- Medical Physics
- Nuclear Physics
- Particle Physics
- Optics and Photonics
- Complex Systems

### ENGAGEMENT

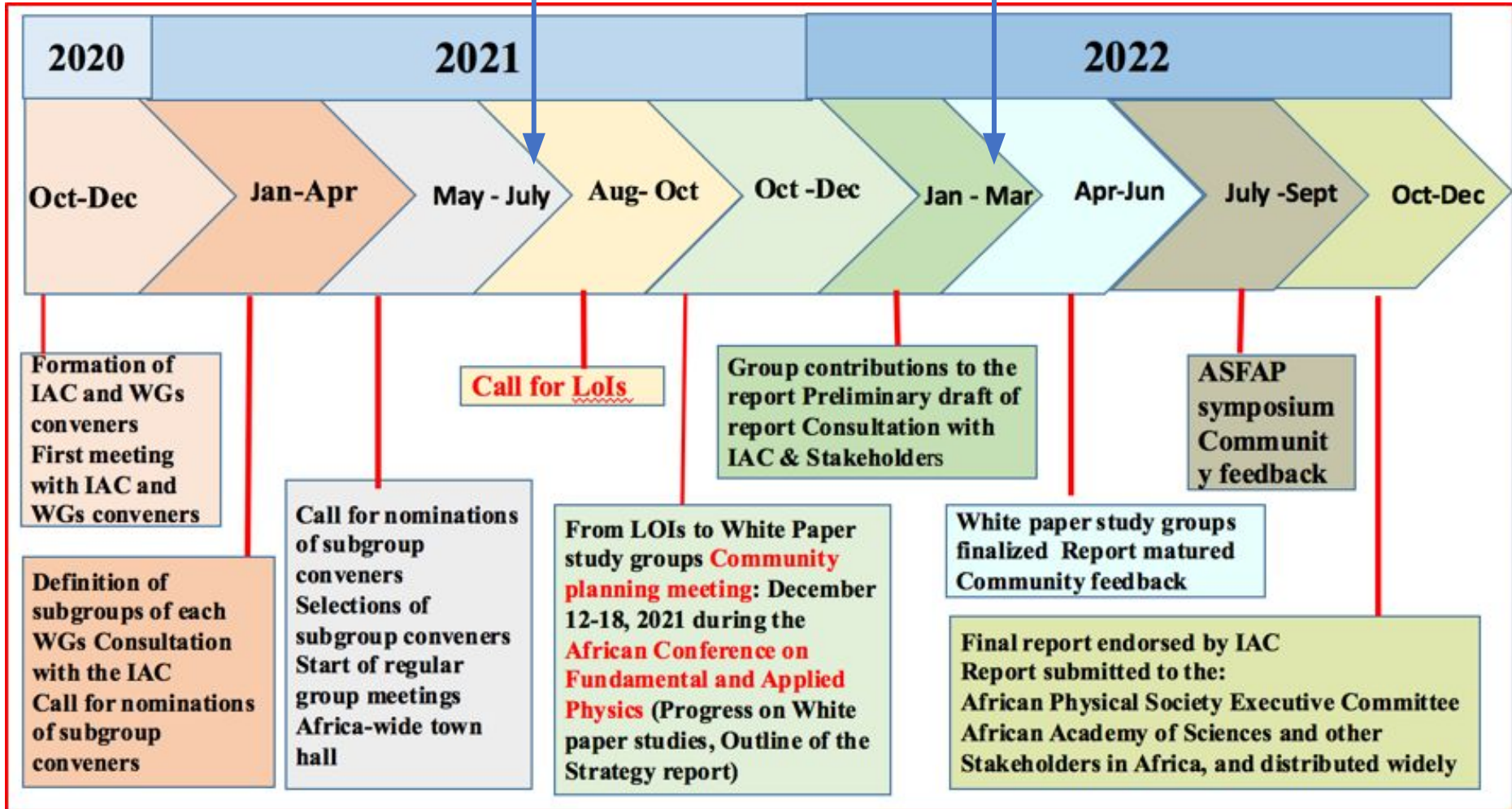
- Community Engagement
- Observers Committee
- Ethics Committee



# ASFAP Timeline

**ASFAP Community  
Planning Meeting,  
March 7-11, 2022**

**ASFAP Town Hall**



# How can you get involved

## 1. Provide contributions to community inputs collections

- a) LOI, Survey, Workshop, Panel Discussions, Conferences, talks

## 2. Submit LOIs until February, 2022

<https://indico.cern.ch/event/1061921/>

## 3. Participate in (sub)group meetings

- a) Register to mailing lists of working groups of interest
- b) Offer your constructive opinions and expertise

## 4. Encourage your research groups to get involved

## 5. Participate in White Paper study groups

## 6. Encourage institutional credits for those working on this Strategy

- a) For people in leadership roles as (sub)conveners and liaisons
- b) White papers aim to be published
- c) White paper finding reviewed and referenced in the Strategy report

## 7. Register and attend the 2nd African Conference on Fundamental and Applied Physics (ACP2021), March 7-11, 2022. Hybrid event in Marrakesh Morocco

- a) <https://indico.cern.ch/event/1060503/>
- b) Conference proceedings to be published as Special Issue in a peer-reviewed journal
- c) Certificate of participation



### Thuma mina – Send Me

<https://www.youtube.com/watch?v=d4Bwux-btq0>

Musician Hugh Masekela

Inspired SA President Cyril Ramaphosa

