

First Edition of the « African School on
Fundamental Physics and its Applications »
<http://cern.ch/AfricanSchoolofPhysics>

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Outline

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1. Introduction

- We establish a biennial series of Schools on Fundamental Physics and its Applications to be held in sub-saharan Africa
- The first series will start on august 1-21st 2010 at the National Institute for Theoretical Physics in Stellenbosch, South Africa
- Long format: 3 weeks
 - Week 1: theoretical aspects of particle/nuclear/astroparticle physics
 - Week 2: experimental aspects of these disciplines
 - Week 3: accelerator physics and technological applications
 - Details: <http://indico.cern.ch/conferenceTimeTable.py?confId=7856>
- Specificity:
 - Free of charges for students from sub-saharan Africa (travel, housing, meals)
- Scientific Institutional Support:
 - France: CNRS-IN2P3, CNRS-GRID Inst., CEA IRFU, ITER
 - Switzerland: CERN
 - Italy: ICTP
 - Spain: U. of Compostela
 - USA: FNAL, JLAB, BNL
 - South Africa: NITheP, SA-CERN

1. Introduction

- International Organizing Committee:
 - Steve Muanza, co-founder and director, CPPM Marseille
 - John Ellis, co-founder and godfather, CERN Geneva
 - Ketevi Assamagan, deputy director, BNL Upton
 - Christine Darve, main organizer, FNAL Batavia
 - Anne-Marie Ferrer, financial supervisor, CNRS-IBCMS Lyon
 - Marumi Kado, LAL Orsay
 - Stephan Narison, HEP-MAD director, LPTA Montpellier
 - Henri Bachacou, CEA Saclay
 - Peter Skands, CERN Geneva
 - Elena Gonzalez Ferreiro, U. of Compostela & LLR Palaiseau
 - Hugh Montgomery, director of JLAB, Newport News
 - Young-Kee Kim, deputy director of FNAL, Batavia
 - Bobby Acharya, ICTP Trieste
 - Jan Govaerts, Head of Physics Dpt, Louvain U.
- Local Organizing Committee:
 - Zebulon Vilakazi, director of the iThemba Labs
 - Jean Cleymans, professor at U. of Cape Town
 - Simon Connell, professor at U. of Johannesburg
 - Trevor Vickey, professor at U. of Witswatersrand
 - Bruce Becker, Meraka Inst.
 - Heather Gray, Columbia U.
 - Anne Dabrowski, CERN Geneva
 - Claire Lee, U. of Johannesburg

2. Selected Students

- Depending on our budget we'll invite ~60 students

 - Academic level:
 - Master
 - PhD
 - + a few post-docs
 - + BSc (Hon.) in SA
 - Geographical origins:
 - Central Africa: Nigeria (2/7), Ethiopia (3/5), DR Congo (0/5), Congo (1/1), Cameroon (0/2), Sudan (4/4), Kenya (0/2), Rwanda (1/1), Ghana (0/1), + Sénégal (0/1)
 - Northern Africa: Morocco (0/1), Egypt (1/3), Tunisia (0/1), Algeria (0/1)
 - Southern Africa:
 - Zimbabwe (2/3), Madagascar (0/5)
 - South Africa: Wits U. (3/4), Johannesburg U. (1/1), Stellenbosch U. (4/8), NIThEP Stellenbosch (1/1), U. of Cape Town (4/4), AIMS (3/3)
 - NB: there are students from different African countries already pursuing their studies in South Africa ($N_{\text{local}}/N_{\text{total}}$)
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3. Budget

incomes	amount €
<i>financing bodies</i>	
Ministry of Foreign Affairs -Spain	30 000
CNRS IN2P3 - France	25 000
ICTP - Italy	25 000
NITHEP, Stellenbosch	15 756
CERN	10 000
SA AGENCIES (NRF)	8403
FNAL + DOE, USA	7 899
BNL, USA	3 949
JLAB, USA	7 899
PSI-EPLF	3 000
Institut des Grilles - France	2 000
CEA - France	4 000
Total incomes	142 906
Total Expenditures	145 000
balance	-2094

4. Organization Status

- Down-payments were made months ago to reserve the accomodation for the lecturers and for the students

- Lecture and catering rooms at NITheP are obviously booked and a computer room at the Phys Dpt of Stellenbosch U. is booked for labs. A small group of students will have the opportunity to make an instrumental lab session at iThemba Labs and others on laser physics at Stellenbosch U.
- Students will have access to the libraries of the Stellenbosch U. and the one of its Physics Department and possibly to the computer room after business hours
- Selected students received a letter of invitation + an affidavit of support
- With this in hand they can request a visa at South African embassy
- Getting visas was TOUGH! Many thanks for the help of Vincent Baron, the scientific attaché of the french embassy in South Africa!
- We are just starting purchasing the flight tickets for the students. We have signed a contract with South African Airways to get a group rebate of 15%.

- All the lecturers are selected and invited, we have the purchase of their flight tickets is well underwav

5. Outreach at the Closure Event

- We are currently organizing a closure event on August 21st that will be hosted at the iThemba Labs
- Invite local HEP physicists, scientific policy makers, industrials? We hope to count either the French consul or the ambassador among our guests.
- We're also trying to invite local TV or scientific press reps
- Have many outreach talks:
 - « Technology Transfer », C. Parinello, CERN
 - « Energetics & Nuclear Fusion », N. Holtkamp, ITER
 - « Status of the South African GRID », B. Becker, Meraka Inst.
 - « Roadmap of Hadron Colliders », P. Jenni, CERN
 - « Roadmap of Accelerator Science », P. Lebrun, CERN
 - « Progress in Particle Therapy in Europe », M. Donsanji, CERN
- Video link to CERN
- Poster sessions: students, possibly industrials