



We are pleased to announce that the 14th International Conference on Particle Induced X-ray Emission ("PIXE 2015") will take place in Somerset West (Western Cape, South Africa) on 26 February – 3 March 2015 at the Lord Charles Hotel.

The conference is organised by the iThemba Laboratory for Accelerator-Based Sciences, a group of multi-disciplinary research laboratories administered by the National Research Foundation.

Scope

The PIXE conference is a biennial event with a long tradition of being the international forum to discuss recent developments and future prospects in particle induced X-ray spectrometry. The conference brings together physicists and scientists from different fields of application including biology and medicine, environmental and earth sciences, cultural heritage and materials research.



Topics

- Fundamental processes of ionisation, X-ray emission and absorption
- Fundamental parameters
- PIXE software
- PIXE methodology and facilities
- PIXE of complex and layered samples (mapping, depth profiling)
- Confocal PIXE and PIXE tomography
- Atmospheric aerosols
- Environmental and earth sciences
- Extra-terrestrial applications
- Biology and medicine
- Forensic science
- Archaeometry and Cultural Heritage
- Materials Science

Scientific Programme

During the 5 days of conference there will be invited, oral and poster presentations. Special attention will be paid to PIXE software and databases. The official language will be English.

Proceedings

Proceedings will be published as a special issue of the journal "Nuclear Instruments and Methods in Physics Research Section B: Beam Interactions with Materials and Atoms" (Elsevier B.V.).

Conference location

CAPE TOWN is southern Africa's most beautiful and visited city. Indeed, few urban centres anywhere can match its setting along the mountainous Cape Peninsula spine, which slides into the Atlantic Ocean. By far the most striking – and famous – of its sights is Table Mountain, frequently shrouded by clouds, and rearing up from the middle of the city.

Find more information on relevant websites, such as <http://www.capetown.travel/>



Venue

The conference will be held at the Lord Charles Hotel in Somerset West (<http://www.nh-hotels.co.za>). Surrounded by vineyards, Somerset West lies at the foot of the Helderberg Mountains, and is part of the Cape Town agglomeration. It is located about 50 km to the south-east of Cape Town centre, 30 km from the Cape Town international airport (<http://capetown-airport.co.za>) and about 10 km from the beaches of False Bay. All participants will be lodged at this hotel.

Travel information

International travel

CAPE TOWN AIRPORT, also known as Cape Town International (CPT), is the 2nd largest airport in South Africa. It is a major gateway for tourism in the country seeing millions of visitors arriving in the city of Cape Town annually. Cape Town Airport standards are world-class and the airport was ranked the leading airport in Africa for 2012 at the World Airport Awards.

Many airlines offer direct flights to Cape Town from various locations around the globe. Alternatively, one can fly to OR Tambo International Airport (JNB) in the city of Johannesburg and next take a local flight to Cape Town. All airlines operating in South Africa fly to Cape Town Airport.

Medical information

With its Mediterranean climate, Cape Town is malaria-free and no vaccinations of any sort are necessary. The only region with a risk of malaria in South Africa is the north-east corner of the country. Therefore, if you are planning to visit the famous Kruger National Park (www.sanparks.co.za), you need to take appropriate medical precautions.

South African Visas

Passport holders from most countries are not required to apply for a visa before arriving in South Africa for a temporary (<30 day) visit. Please check

<http://www.home-affairs.gov.za/index.php/countries-exempt-from-sa-visas> for exact details as—in principle—the countries on this list may change without notice.

Passport holders of countries not on the above list should follow the links for a [visitor's visa](#) or a [conference visa](#). General information on applying for a visa may be found [here](#).

Social Programme

A day trip will be organized, consisting of a scenic drive to Cape Point along the False Bay and Atlantic coasts, culminating with a cable car tour to enjoy the sunset from the Table Mountain. The conference banquet will take place at a scenic restaurant of one of the many vineyards of the Stellenbosch wine route.

Contacts:

Official Website:

All participants are encouraged to visit the conference website <http://www.pixe2015.tlabs.ac.za> for more detailed information, updates and related links.

Conference Manager:

Naomi Haasbroek, iThemba LABS

Conference Chairs:

Wojciech Przybylowicz, iThemba LABS
Carlos Pineda-Vargas, iThemba LABS

Enquiries should be addressed to:

E-mail: pixe2015@tlabs.ac.za
Ms Naomi Haasbroek
Conference Manager
PIXE2015
P O Box 722
Somerset West
7129 SOUTH AFRICA
Tel: +27-21-843-1259
Fax: +27-21-843-3525

International Advisory Committee

M. A. Reis - Portugal (Chair)
M. Bailey - UK
T. Calligaro - France
D.D. Cohen - Australia
A. Denker - Germany
J.F. Dias - Brazil
S. Fazinic - Croatia
G. Lapicki - USA
F. Lucarelli - Italy
W. Maenhaut - Belgium
J. Miranda - Mexico
W. Przybylowicz - South Africa
Z. Smit - Slovenia

International Honorary Committee

J.L. Campbell - Canada
G.W. Grime - United Kingdom
K. Ishii - Japan
P. A. Mando - Italy
C. Ryan - Australia
Z. Szokefalvi-Nagy - Hungary

Local Organizing Committee

Alban Barnabas
Karen Cloete
Colin Doyle
Naomi Haasbroek
Zakhele Khumalo
Morgan Madhuku
Jolanta Mesjasz-Przybylowicz
Nametso Mongwaketsi
Christopher Mtshali
Roya Ndimba
Phillip Sechogela
Karl Springhorn
Miroslava Topic
Michelle Van Der Ventel-Bark

