



SEANAC CONFERENCE: 15 - 18th July 2007
Gaborone Sun Hotel, Gaborone, Botswana

THEME: CHEMISTRY FOR HEALTH

SEANAC: The Southern and Eastern Africa Network of Analytical Chemists was founded in February 2002 during a workshop funded by Sida (Swedish industrial development agency), held in Gaborone, Botswana. The workshop was attended by delegates representing 13 Universities from 11 African countries.

The SEANAC Inaugural Conference was held in July 2003, in Gaborone, Botswana. SEANAC is now an affiliated organization to IUPAC, and through the support of the International Program in Chemical Sciences (IPICS) at Uppsala University, Sweden, the network provides 3 months research fellowships tenable in Africa and abroad. In 2005 SEANAC funded 10 Fellows (7 MSc and 3 PhDs), in 2006 they were 13 SEANAC Fellowships (5 MSc, 7 PhD and 1 postdoc) and in 2007 SEANAC will support one graduate student and a senior scientist for a 3 months visit to a collaborating research group abroad as well as the pre-SEANAC symposium summer school.

Citizens of Botswana and South Africa are not eligible for SEANAC Fellowships. However, the Universities in the 2 countries can host researchers. The network continuously seeks financial support to sustain as well as expand its programs.

Local Organising Committee

Veronica Obuseng, Chairperson
Catherine Ngila, Nelson Torto, Mathew Nindi,
David Takuwa, Dikabo Mogopodi, Bonang Nkoane,
Harriet Okatch

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Alanah Fitch, USA
James Holcombe, USA
Ron Majors, USA
Natalie Wisniewski, USA
Omowunmi Sadik, USA
Simiso Dube, Zimbabwe

Second Announcement and Call for Abstracts

Conference Program

The program will be composed of plenary lectures and poster sessions.

A selected key International speakers and their presentation titles are listed below:

Prof. Berhanu Abegaz, University of Botswana, *Botswana*
The roles of natural products to lessen the malaria burden in Africa

Prof. Jan Åke Jönsson, University of Lund, *Sweden*
Miniaturized liquid membrane extraction for sample preparation

Prof. Andrew Crouch, University of Stellenbosch, *South Africa*

Capillary Electrophoresis and Electrochromatography:
Challenges for speciation and wine analysis

Prof. Ahmed Hassanali, International Centre for insect Physiology & Entomology, Nairobi, *Kenya*
Chemistry in a multidisciplinary approach to addressing biological problems and resources

Dr. George Vunni, Research Physicist, US Army Research Laboratory, *USA*
Current Research Efforts in Nanoparticles and Technology

Prof. Nabil Bashir, University of Gezira, *Sudan*
Assessment of Pesticide Residues in Soil, Canal Water and Underground Water in some Villages of the Gezira Scheme

Dr. Appolinaire Djikeng, The Institute for Genomic Research (TIGR), *USA*
Genomics and post-genomics: The case of viruses and African trypanosomes

Dr. Charlotta Turner, Uppsala University, *Sweden*
Green Chemistry for Health

Dr Akin Akinlua, Obafemi Awolo University, *Nigeria*
Natural radioactivity and trace metals in crude oil: implication for health

Dr Luke Chimuka, University of Witwatersrand, *South Africa*
New directions in liquid membrane extraction in analytical sciences

Prof. Roger Smith, Loughborough University, *UK*
Novel applications of superheated water chromatography - solvent free HPLC

Prof. Ward Mavura, Egerton University, *Kenya*
Accessing analytical instruments by remote control: a new initiative between USA and East Africa

Prof. Azize Amine, Faculté des Sciences et Techniques, Mohammedia, *Morocco*
Biosensors based on enzyme inhibition

Dr. Kuria Ndung'u, Institute of Applied Environmental Research (ITM), Stockholm University, *Sweden*
Natural occurrence of hexavalent chromium in groundwater

Prof. T. Kirimire, Makerere University, *Uganda*
Pesticide residues in selected fish species from Lake Victoria

Prof. James Darkwa, University of Johannesburg, *South Africa*
Analytical tools in the life of an Inorganic chemist

Dr. Negussie Megersa, Addis Ababa University, *Ethiopia*
Level of Pesticide Residues in the Soils of the Agricultural Regions of the Upper Rift Valley of Ethiopia

Dr. Ron Majors, Agilent Technologies, *USA*
Recent advances in column technologies

Call for Abstracts

Abstracts for oral and poster presentations are invited in all areas of Analytical Chemistry. Papers addressing aspects of health that include environment, food security and HIV/AIDS are encouraged. Abstracts should not exceed 300 words and MUST be submitted to the SEANAC secretariat by e-mail. The name of the author presenting the paper, if submitting with co-authors, should be underlined. Institution postal address, e-mail, fax and telephone numbers should be included. The secretariat views the oral and poster presentations to be equal.

Pre-Conference Summer School July 13-15, 2007

Only 30 places will be available with priority given to postgraduate students and analytical chemists or technicians working in industry. Participants will be able to attend the following workshops:

a) Sample Preparation with Solid Phase Extraction

Dr. Ron Majors, Agilent Technologies, *USA*: This workshop will address the cleanup and concentration of trace analytes in a wide variety of matrices including drinking water, biological fluids and foodstuffs. This component will cover development in HPLC columns as well as GC based methodologies.

b) Remote Access and Control of a GC-MS

Prof. Alanah Fitch of Loyola University, *Prof. Ward Mavura* of Egerton University and *Prof. Michael Kishimba* of University of Dar-es-Salam will be the resource people for this component of the summer school. Participants will get a virtual experience with a GC-MS in analyzing pesticide residues. Sample preparation, shipping, sample introduction, instrument preparation, data acquisition and storage, as well as comparison with NIST files for validation will be discussed.

c) Trace Element Analysis of Environmental and Biological Samples Using GFAAS and ICP-MS/OES

Prof. Rob McCrindle of Tshwane University, *South Africa* and *Dr. Kuria Ndung'u* of ITM, *Stockholm, Sweden* will conduct a session on the application of GFAAS and ICP-MS/OES, two of the most sensitive analytical techniques. Discussions will include overcoming difficulties in sampling and sample preparation, use of certified reference materials for quality control and other challenges of analyzing elements at trace and ultra-trace levels in biological and environmental samples.

Participants will be expected to take part in all three components of the summer school.

Registration Fees

Registration: US\$ 450-00

Students: US\$250-00

Full registration includes copies of book of abstracts, Welcome party, Tea & Lunch for the days of the meeting and Conference Dinner.

SEANAC will provide at least 15 grants for graduate students. The grants will cover registration, accommodation and contribute towards transport costs. Graduate students have to submit an extended abstract of not more than 2 A4 sides detailing their work as well as a cover letter justifying why they should be supported. Secretariat is in the process of negotiating for funding for students from other sources including Royal Society of Chemistry, UK.

Important Dates

February 2007, Second Announcement

April 20, 2007, Deadline for Submission of Abstracts

May 2007, Final Announcement and Technical Program

July 13-15, 2007 Pre-symposium Summer School

July 15-18, 2007 SEANAC Symposium

Post - conference Tour

The Secretariat will endeavour to facilitate the organization of post-conference tours to the northern part of Botswana, Kasane. Once in Kasane, you will be able to take a trip to the mighty Victoria Falls which is only an hour's drive. In addition there are interesting places in and around Gaborone.

Exhibitions

Companies interested in participating in the exhibition are invited to send their enquiries to the Symposium Secretariat. Vendor workshops, demonstrations, seminars or sponsored speakers are encouraged.

Accommodation

The city of Gaborone has a wide variety of excellent hotels and bed & breakfast accommodation. Students can be accommodated in the Graduate Hostels at the University of Botswana for an affordable fee. Delegates are encouraged to book at the conference hotel, Gaborone Sun Hotel. Telephone: +267 3616000, Fax: +267 3902555
E-mail: gabs_res@sunint.co.za,
website: www.suninternational.com

Contact Details

For further information or submission of abstracts please visit the SEANAC website;

www.seanac.org

or contact

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SEANAC

Southern & Eastern Africa
Network of Analytical Chemists

SEANAC Programmes are supported by:
University of Botswana.

International Programme in Chemical Sciences (IPICS), at the University of Uppsala, Uppsala, Sweden.