



**Joint East and Southern Africa Environment Chemistry
Conference (ESAECC) and the Seventh Theoretical
Chemistry Conference in Africa (TCCA)**



3-7 December 2007. Elephant Hills Resort, Victoria Falls, Zimbabwe

SECOND ANNOUNCEMENT AND CALL FOR ABSTRACTS

**EAST AND SOUTHERN AFRICA ENVIRONMENTAL CHEMISTRY
CONFERENCE (ESAECC)
AND
THE 7TH THEORETICAL CHEMISTRY
CONFERENCE IN AFRICA (TCCA)**

VENUE: Elephant Hills Resort, Victoria Falls, Zimbabwe.

DATES: 3 – 7 December 2007

THEME

SCIENCE FOR TECHNOLOGICAL ADVANCEMENT IN AFRICA.

1. Background

The above Joint Conference is planned for 3 – 7 December 2007, and will focus on theoretical chemistry and environmental chemistry. We are encouraging you to join us by submitting an oral or poster paper for presentation at the conference. We also encourage you to persuade your colleagues in these fields to submit papers for presentation. This is the opportunity of a lifetime to come to a gathering of international speakers on wide ranging issues related to Environmental Chemistry and Theoretical Chemistry.

2. Objectives

- To bring together African scientists for exchange of ideas and research results in the fields of theoretical chemistry, environmental chemistry and related fields.
- To foster collaboration among African scientists and between African scientists and those from other continents.

3. Areas to be covered

Environmental Chemistry	Theoretical Chemistry
Environmental analysis, Atmospheric chemistry, Soil Chemistry, Mining and the environment Surface and ground water quality, Impact of Industry and Agriculture on the environment, Fate and speciation of metals in biological and environmental samples, Fate and persistence of agricultural chemicals in the environment.	Kinetic modeling, Teaching of theoretical chemistry, Structure and Bonding, Statistical thermodynamics, Drug design

4. Conference Programme

The conference programme will consist of five plenary lectures, seven invited papers and short lectures. The plenary lectures and invited papers are listed below:

Plenary Lectures (PL)

PL1. **Prof Reuben Simoyi**, Department of Chemistry, Portland State University, Oregon, USA

Modeling the power of non-linearity: Chaos in Physical, Chemical and Biological systems.

PL2. **Dr Vincenzo Aquilanti**, Italy

Kinetics and Sterodynamics of chemical reactions: From potential energy surfaces to cross sections and rate constants.

PL3. **Prof. Sreekath Jonnalagadda**, Department of Chemistry, University of KwaZulu-Natal, South Africa

Ozone initiated catalytic oxidation for value added products and in water treatment.

PL4. **Prof Bashir** University of Gezira, Sudan.

The insecticides of the future.

PL5. **Prof. G.N.Kamau**, University of Nairobi, Kenya
Sources of greenhouse gases and methods of their mitigation in developing countries

Invited Lectures (IL)

IL1. Prof L Mammino, Dept of Chemistry, University of Venda, South Africa

How to approach the computational study of a biologically active molecule

IL2. Prof Michael Kishimba, Chem Dept, University of Dar es Salaam, Tanzania

The status of pesticide pollution in Tanzania

IL3. Prof. Negussie Megersa, Environmental Analytical Chemistry, Department of Chemistry, Addis Ababa University, P.O.Box 1176, Addis Ababa, Ethiopia.

New developments and progress in sample preparation of environmental and biological complex matrix samples using liquid membrane extraction techniques.

IL4. Prof. Y. Naik, Department of Biochemistry and Bio-technology, National University of Science and Technology, Bulawayo, Zimbabwe.

Reliable biomarkers of aquatic pollution

IL5. Prof Oscar Ventura Uruguay

Observation of enzymatic proton networks by combined X-Ray and Neutron Crystallography and the use of quantum chemical molecular dynamics to explain the mechanization of promiscuous enzymes.

IL6. Kahwai Spencer, Institute of Mining Research (IMR), University of Zimbabwe.

The Environmental impact of using mercury in gold processing by small scale miners in the Kadoma-Chakari area of Zimbabwe

IL7. Dr RC Gurira, Chemistry Dept, University of Zimbabwe

The impact of Cyanide and its speciation products in a gold mining environment in Zimbabwe

5. Call for abstracts

Abstracts should not exceed 300 words and must be submitted to the Conference secretariat by e-mail. The name of the presenting author, if submitting with co-authors, should be underlined. The institution of author(s), postal address, e-mail, fax and telephone numbers should be included. The secretariat views the oral and poster presentations to be equal.

6. Registration

The deadline for registration is September 30, 2007. Registration fees are as follows:

Participants:	US\$200.00
Students:	US\$150.00

Registration fees will cover the book of abstracts, welcome cocktails, morning and afternoon teas and lunch during the days of the conference.

7. Important dates

Deadline for abstracts:	31 August 2007
Deadline for registration:	30 September 2007

8. Exhibitors

Companies interested in exhibiting their equipment or wares, or in holding vendor workshops, demonstrations or seminars, are invited to send their inquiries to the Conference Secretariat.

9. Excursion

Wednesday December 5, 2007, will be devoted to an excursion viewing the mighty Victoria Falls. Details about the excursion will be available on the Conference website shortly.

10. Traveling to Victoria Falls

Victoria falls can be reached by air from Johannesburg, Harare, Bulawayo. Conference participants can make their own arrangements or contact the conference secretariat for assistance. Delegates from countries that are required to have Visas in order to enter Zimbabwe are advised to contact the Conference Secretariat as soon as possible.

11. Accommodation at Victoria Falls

There several hotels and lodges in Victoria falls Town. Charges range from about US\$45.00 to US\$250.00 for bed and breakfast. Self catering lodges are also available, delegates can contact the Conference Secretariat for more information. The following hotels and lodges are offering special reduced rates for conference participants:

A'Zambezi Hotel	US\$135.00	Bed & Breakfast
Elephant Hill	US\$150.00	Bed & Breakfast
Rainbow	US\$100.00	Bed & Breakfast
Sprayview	US\$60.00	Bed & Breakfast

12. Contact Details

For further details, visit the conference website at
<http://www.uz.ac.zw/science/chemistry/esaecc/index.html>

Or

Contact the Conference Secretariat, e-mail address: esaecc@science.uz.ac.zw

Or

Prof. M.F.Zaranyika, Chairman, Local Organizing Committee,
E-mail address: Zaranyika@science.uz.ac.zw

Or

Ms J. Jiri, Secretary, Local organizing Committee,
E-mail address: jiri@science.uz.ac.zw