



The 20th International Conference on Chemical Education



RSC | Advancing the
Chemical Sciences

Satellite Meeting

***"The Relevance of Chemistry in a Globalized Society"* 11-12th August 2008**

Organisers

Organising committee of 20th ICCE, IUPAC and Kenya Chemical Society

Sponsors: IUPAC, RSC, Kenya Chemical Society and University of Nairobi

Themes

- ICT as a tool for collaborating in chemistry (Dr J. Mwaniki/ Dr. Alex Tindimubona)
- Low cost experiments in chemistry (Prof J Bradley)
- Public image of chemistry (Prof S. O. Wandiga)

The meeting will be held at Chiromo campus of the University of Nairobi on 11 and 12 th August 2008.

Registration: The registration fee is US\$ 100 for non residents. This covers teas, lunches, administrative items and book of abstract. Registration for Kenyans Residents is \$50 and for students is **Free**.

Visitors will be accommodated in nearby hotels (range US\$ 60 and US\$ 160) and students hostels (US\$40). Transfer to and from airport is US\$ 25.

Participants should send a brief resume of themselves giving details of their work and how the workshop will assist them.

Support: Limited support is available to qualified participants from Africa.

Contacts:

Prof S O Wandiga <mailto:sowandiga@iconnect.co.ke>)

Assoc Prof Ponnadurai Ramasami <mailto:p.ramasami@uom.ac.mu>

Workshop Programme

Monday 11th August, 2008

8.00-9.00 Registration of Participants

9.00-9.45 Opening Ceremony; Introduction of participants and opening speeches

9.45-10.15 Tea/Coffee Break

10.15-11.00 ICT as a tool for collaboration in Chemistry (Dr. Alex Tindimubona)

11.00-11.45 ICT as a tool for Collaboration in Chemistry (Dr. Joseph Mwaniki)

11.00-12.30 Low Cost Experiments in Chemistry (Prof. John Bradley)

12.30-14.00 Lunch Break

14.00-14.45 Public image of chemistry (Prof. Shem O. Wandiga)

14.45-15.45 Questions and answers on lecture topics

15.45-16.15 Tee/Coffee Break

16.15-17.00 Break out session into three groups: ICT, Low Cost Experiment and Public Image of chemistry Chaired by Dr. Mwaniki and Tindimubona, Prof. Bradley and Prof. Wandiga

The Low Cost Experiment Group will have a hands on experiment using microscience kits. 1. Electrolysis of water (using Advanced microchem kit). Drawing

molecular representations using our molecular stencil.

2. Determining boiling points of organic substances (using Advanced Microchem kit + some new pieces). (1-propanol and 2-propanol) Molecular model building (using our low-cost kit!) to discuss structure-property relations.

3. Determining concentration of aqueous solutions (eg NaCl) by conductivity measurements (using new conductivity unit and multimeter). Using the molecular stencil to represent aqueous solutions of different concentration.

17.30-18.30 Cocktail

Tuesday 12 august 2008

9.00-10.30 Second Group Discussion

10.30-11.00 Tea/Coffee Break

11.00-12.30 Plenary Discussion: Report from Dr. Mwaniki, Prof. Bradley and Prof. Wandiga

12.30-13.00 Workshop Closure

13.00-14.00 Lunch

Guidelines for the Chairs of Group Discussion

- 1. The chair should allow the group to elect a rapporteur and invite each of the participants to introduce themselves and invite them to comment briefly on the theme topic of the group from their local perspective (5min max) before opening up to wider discussion**
- 2. What should be the key priorities of chemical scientists and how do we mobilize resources for the objectives?**

3. What difficulties exist with the present setup?
4. What new activities not presently being undertaken by anyone should the chemical societies be engaged with?
5. What other key chemistry related topics relevant to Africa should we be involved in?
6. Chairs are free to add other questions relevant to the topic.

Reports: The chairs should record a summary of the output from the discussion and any proposed action for plenary presentation

General Points

- The breakout session chairs should encourage dialogue and not monopolize the discussion
- Chairs should try and involve all the participants
- Focus discussion around the theme where possible