Training Programmes on Application of stable Isotopes to study Physiological Processes for Crop Improvement

Sponsored by Department of Biotechnology, Government of India

At The Department of Crop Physiology, University of Agricultural Sciences, GKVK, Bangalore 560 065

(2 December to 23 December 2003)

A National facility for stable isotope studies in biological sciences is established at the Department of Crop Physiology, UAS, GKVK, Bangalore 560 065. This facility is funded by DBT & DST, GOI.

Estimation of the isotopic signatures in organic and inorganic matters find a wide range of application in plant biology, hydrology, oceanography, environmental and atmospheric sciences, food chemistry, etc., The most significant aspect is the scope for using stable isotopes as a tool for improving specific physiological traits associated with growth and productivity through breeding programmes.

The emphasis in the training programme will be on understanding the application of stable isotopes of carbon, oxygen and nitrogen in plant biology and also in improving crop productivity and quality by manipulating physiological traits through breeding approaches. The purpose of the course is to orient teacher/research workers to enable them to understand the usefulness of stable isotopes in crop improvement programme. In addition to regular course sessions there will be hands-on practical training in conducting experiments to quantify WUE, gas exchange parameters and Marker Assisted Selection for physiological traits.

Interested young teachers/research workers below 35 years of age are invited to submit through e-mail and hardcopy their CV together with a brief essay covering the kind of teaching/ research activities of the candidate and how this training will be useful to orient their capabilities in the present and future endeavour. Age limit can be relaxed for deserving candidates.

The application together with the letter of permission from the institute for the participation should be submitted to the address given below to reach on or before **15 October 2003**.

Address: Dr M. Udayakumar, Professor and Head, Department of Crop Physiology, Univ. Agric. Sciences, GKVK, Bangalore 560 065, e-mail ID: udayakumar_m@yahoo.com

Selected candidate will be provided local hospitality and actual train fair for travel by 2nd class and will be informed of their selection by the end of October 2003.

Department of Science and Technology
(Science and Engineering Research Council)

Proposals are invited in the following areas in inorganic chemistry from highly motivated and active researchers or groups of researchers in academic institutions, national laboratories and R&D institutions to undertake internationally competitive research:

1. Aqueous organometallic chemistry
2. Molecular precursors for advanced inorganic materials
3. Metalloenzymes and their mimics
4. Green chemistry
5. *f*-Block elements

Interested researchers are requested to submit twenty hardcopies of the proposal in the SERC format (the format can be downloaded from our website: www.serc-dst.org) so as to reach us before **15 October 2003**. Collaborative projects from young researchers are encouraged.

The proposals may be sent to the following address:

Dr R. Brakaspathy, Scientist 'F', SERC Division, Department of Science and Technology, Technology Bhawan, New Mehrauli Road, New Delhi 110 016.

The envelope may be superscribed 'Inorganic Chemistry – Invited Proposals'.