

I venture to suggest the following short term experiment. This consists in searching for talented men and trying to make them the nuclei for future growth of excellent science. This presupposes that all good scientists are not created equal, that science is not merely a method but it has also a culture, that leadership should go to only those who have competence in both, and of course, that the present system is rotten. Professional competence and stature are important and should be respected but those qualities alone cannot breed excellence.

The experiment, in outline, is this. Set up a committee of fair-minded men of science to search for all outstanding papers on work done in India in various fields, published in the past, say 10 years. After finding out about the authors, ask those who are still in India, to give their honest assessment of the contribution to the advancement of Science (idea, experimental design and execution and so on). Invite all those who have made real contribution to a place for a sort of a workshop to discuss the problems of excellent science

in India. Ask each one to present a short paper on his or her personal experience. During the workshop initiate a process by which to assess whether some of them have the requisite qualities of leadership and vision to form the nuclei for future growth. Give special assistance to the research programmes of those who have laboratories, and provide laboratories for those who do not at different parts of the country, with a view to converting these laboratories as National Centres if they come up to expectations. Attempts should also be made to ameliorate the problems raised during the workshop. But real success cannot be achieved in the absence of long term reforms referred to earlier.

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## ANNOUNCEMENT

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### ROVING WORKSHOP-CUM-CLINIC-ON LEAD ACID BATTERIES: CARE AND MAINTENANCE

The Battery Society of India (BSI) is organising two-day Workshop-cum-Clinic on Lead Acid Batteries: Care and Maintenance at New Delhi (28-29 Oct. '83), Bombay (7-8 Nov. '83) Secunderabad (10-11 Nov. '83), Calcutta (14-15 Nov. '83).

The programme, which will be conducted by a (BSI) technical staff in association with experts drawn from leading battery manufacturers in the country, will cover the following topics: Battery construction, Bat-

tery operation, Battery performance, Shipment inspection and storage, Dry charged batteries, Charging of batteries, Factors affecting battery life and capacity, Battery failure and defects: causes and remedies.

For details please consult: The Secretary, Battery Society of India, B-6,7 Shopping Centre, Safdarjung Enclave, New Delhi 110 029.

## ANNOUNCEMENTS

### INDIAN NATIONAL SCIENCE ACADEMY, NEW DELHI, 1983

The Officers and members of the Council for the year 1984 will consist of: *President*: Prof. A. K. Sharma (Calcutta); *Vice Presidents*: Prof. C. N. R. Rao (Bangalore) and Dr S. Sriramachari (Delhi); *Treasurer*: Dr V. G. Bhide (Pune); *Foreign Secretary*: Prof. D. Lal (U S A) - Dr T. N. Khoshoo to look after the duties of Foreign Secretary during the absence of Prof. D. Lal; *Secretaries*: Prof. S. K. Joshi (Roorkee) and Prof. P. N. Tandon (Delhi); *Editors of Publications*: Prof. A. N. Mitra (Delhi) and Dr G. S. Venkataraman (Delhi); *Members of the Council*: Prof. U. C. Agarwala (Kanpur), Dr T. N. Ananthakrishnan (Madras), Prof. Sadhan Basu (Calcutta), Prof. J. Barnabas (Ahmednagar), Dr D. S. Bhakuni (Lucknow), Prof. D. P. Burma (Varanasi), Prof. G. B. Deodikar (Pune), Dr L. K. Doraiswamy (Pune), Prof. A. Ghosh (Calcutta), Dr K. S. Gill (Ludhiana), Dr P. K. Iyengar (Bombay), Dr T. N. Khoshoo (Delhi), Prof. (Mrs.) Anna Mani (Bangalore), Prof. R. Narasimha (Bangalore), Prof. M. S. Raghunathan (Bombay), Prof. K. R. Parthasarathy (Delhi), Prof. E. C. Subba Rao (Pune), Prof. K. S. Valdiya (Nainital); *Representatives of Cooperating Academies*: Asiatic Society, Calcutta - Dr R. K. Pal (Calcutta); Indian Science Congress Association, Calcutta - Prof. A. S. Paintal (Delhi)

List of scientists elected to Fellowship 1983 (effective from 1 January 1984):

Dr P. R. Adiga, Department of Biochemistry, Indian Institute of Science, Bangalore, Dr S. C. Agarwal, Serologist and Chemical Examiner to the Government of India, 3 Kyd Street, Calcutta, Prof. J. C. Ahluwalia, Department of Chemistry, Indian Institute of Technology, New Delhi, Dr V. S. Arunachalam, Secretary, Department of Defence Research & Development R & D Organisation, New Delhi, Dr D. D. Awasthi, Department of Botany, Lucknow University, Lucknow, Prof. M. V. Bhatt, Organic Chemistry Department, Indian Institute of Science, Bangalore, Prof. S. R. K. Chopra, Department of Anthropology, Panjab University, Chandigarh, Prof. C. J. Dominic, Department of Zoology, Banaras Hindu University, Varanasi, Dr G. P. Dutta, Division of Microbiology, Central Drug Research Institute, Lucknow, Dr M. D. Gadgil, Centre for Theoretical Studies, Indian Institute of Science, Bangalore, Dr S. S. Kapoor, Nuclear Physics Division, Modular Laboratories, BARC, Bombay, Prof. P. K. Kaw, Physical Research Laboratory, Ahmedabad, Dr Krishnan Lal, National Physical Laboratory, New Delhi, Dr R. A. Mashelkar, National Chemical Laboratory, Pune, Prof. V. V.

Modi, Department of Microbiology, M. S. University, Baroda, Prof. (Mrs) K. K. Rohatgi Mukherjee, Department of Chemistry, Jadavpur University, Calcutta, Dr S. C. Pakrashi, Indian Institute of Chemical Biology, Calcutta, Prof. S. S. Prihar, Punjab Agricultural University, Ludhiana, Prof. T. V. Ramakrishnan, Department of Physics, Indian Institute of Science, Bangalore, Dr B. L. S. Prakasa Rao, Indian Statistical Institute, New Delhi, Prof. N. Appaji Rao, Department of Biochemistry, Indian Institute of Science, Bangalore, Prof. G. K. Narayana Reddy, Department of Chemistry, Bangalore University, Bangalore, Prof. Amalendu Roy, UNESCO, Professor of Geophysics, University of Ibadan, Ibadan, Nigeria, Prof. Y. S. R. K. Sarma, Department of Botany, Banaras Hindu University, Varanasi, Dr S. V. S. Shastry, Director of Research, International Institute of Tropical Agriculture, PMB 5320 Ibadan, Nigeria, Dr J. S. Singh, Department of Botany, Kumaon University, Nainital, Prof. H. S. Sohi, Department of Botany, Punjab University Chandigarh, Dr Joseph Thomas, Biology and Agriculture Division, BARC, Bombay, Prof. B. M. Udgaonkar, Department of Theoretical Physics, Tata Institute of Fundamental Research, Bombay, Prof. M. S. Valiathan, Director, Sree Chitra Tirunal Institute of Medical Sciences and Technology, Trivandrum.

List of scientists elected to Foreign Fellowship 1983 (effective from 1 January 1984)

Prof. Howard A. Born, Department of Zoology, University of California, Berkeley, California, USA, Dr Nikolai Nikolaevich Bogolubov, Director, Joint Institute for Nuclear Research, Moscow, USSR, Prof. Murray Gell-Mann, California Institute of Technology, Pasadena, California, USA, Prof. Roald Hoffmann, Chairman, Department of Chemistry, Cornell University, Ithaca, New York, USA, Prof. Guido Pontecorvo, Imperial Cancer Research Fund, Lincoln's Fields, London WC 2A 3PX, Prof. Bernard Pullman, Professor of Quantum Chemistry, University of Paris, Prof. Rustom Roy, Material Research Laboratory, The Pennsylvania State University, University Park, Pennsylvania, USA, Prof. Janos Zentagothai, Professor of Anatomy, Semmelweis Medical University, President, Hungarian Academy of Sciences, 9 Roosevelt-ter 1361, Budapest V.