

# NATIONAL INSTITUTE OF SCIENCES OF INDIA

## Seventeenth Anniversary General Meeting

The Seventeenth Anniversary General Meeting of the National Institute of Sciences of India was held at 10 a.m., on Tuesday, the 1st January, 1952, at the Presidency College, Calcutta.

### PRESENT:

Dr. S. L. Hora, *President*, in the chair.  
Dr. K. N. Bagchi, *Additional Vice-President*.  
Prof. N. R. Dhar, *Additional Vice-President*.  
Dr. J. N. Mukherjee, *Foreign Secretary*.  
Prof. D. S. Kothari } *Secretaries*.  
Dr. H. S. Pruthi }

Prof. S. P. Agharkar.	Prof. K. P. Chattopadhyay.	Dr. G. C. Mitter.
Dr. J. B. Auden.	Dr. R. N. Chaudhuri.	Dr. P. C. Mitter.
Prof. K. N. Bahl.	Dr. K. A. Chowdhury.	Dr. B. P. Pal.
Prof. K. Banerjee.	Dr. S. Datta.	Dr. B. N. Prasad.
Prof. A. C. Banerji.	Dr. R. K. Dutta Roy.	Prof. H. Rakshit.
Prof. S. K. Banerji.	Mr. P. Evans.	Dr. H. N. Ray.
Dr. J. K. Basu.	Dr. J. Ghosh.	Dr. J. C. Ray.
Prof. N. M. Basu.	Dr. P. K. Ghosh.	Prof. P. Ray.
Dr. U. P. Basu.	Mr. S. Gupta.	Dr. S. K. Ray.
Dr. J. L. Bhaduri.	Dr. K. Jacob.	Prof. M. N. Saha.
Dr. P. N. Bhaduri.	Prof. A. C. Joshi.	Dr. P. B. Sarkar.
Prof. S. Bhagavantam.	Dr. M. S. Krishnan.	Prof. J. M. Sen.
Prof. D. M. Bose.	Dr. B. C. Kundu.	Prof. N. K. Sen.
Dr. N. K. Bose.	Prof. C. Mahadevan.	Prof. N. R. Sen.
Dr. P. K. Bose.	Prof. G. P. Majumdar.	Mr. V. P. Sondhi.
Prof. S. R. Bose.	Prof. R. C. Majumdar.	Dr. P. L. Srivastava.
Dr. S. K. Chakrabarti.	Dr. K. Mitra.	Prof. N. R. Tawde.
Prof. S. C. Chatterjee.	Prof. S. C. Mitra.	Dr. A. C. Ukil.

Besides Fellows, there was a large number of visitors present.

1. The minutes of the Seventeenth Annual General Meeting, held on October 5-6, 1951, were confirmed.

2. The President reported death of Sir Cyril S. Fox, Dr. M. Qureshi, Dr. K. Subramaniam and Mr. James Vail. A resolution of condolence was passed, all standing.

3. Dr. H. N. Ray was admitted as an Ordinary Fellow and signed the Register under provisions of Rule 13.

4 (a) The President appointed Prof. S. P. Agharkar and Prof. A. C. Banerji as scrutineers for the voting papers for the election of office-bearers and Members of Council for the year 1952.

As a result of scrutiny, the following were declared duly elected to the Council:—

<i>President</i> .. .. .	Dr. S. L. Hora (Calcutta).
<i>Vice-Presidents</i> .. .. .	Prof. K. N. Bahl (Lucknow). Prof. P. Parija (Cuttack).
<i>Treasurer</i> .. .. .	Dr. B. P. Pal (Delhi).
<i>Foreign Secretary</i> .. .. .	Prof. P. C. Mahalanobis (Calcutta).

<i>Secretaries</i> .. .. .	Dr. H. S. Pruthi (Delhi). Prof. R. C. Majumdar (Delhi).
<i>Editor of Publications</i> .. .. .	Prof. J. M. Sen (Calcutta).
<i>Members of Council</i> .. .. .	Dr. S. P. Agharkar (Poona). Dr. J. L. Bhaduri (Calcutta). Prof. H. J. Bhabha (Bombay). Prof. S. Bhagavantam (Hyderabad). Prof. B. B. Dey (Madras). Dr. B. C. Guha (Calcutta). Dr. V. R. Khanolkar (Bombay). Prof. D. S. Kothari (Delhi). Dr. C. Mahadevan (Waltair). Prof. S. K. Mitra (Calcutta). Dr. B. Mukerji (Lucknow). Dr. V. G. Panse (Delhi). Dr. Mata Prasad (Bombay). Dr. L. A. Ramdas (Poona). Prof. M. N. Saha (Calcutta). Dr. V. Subrahmanyam (Mysore). Dr. K. Venkataraman (Bombay).

4(b) The President also announced that the following were nominated by the Government of India and other co-operating academies to serve on the Council of the Institute for 1952 as their representatives:—

<i>Government of India</i> .. .. .	Dr. C. G. Pandit (Delhi).
<i>Asiatic Society</i> .. .. .	Dr. K. N. Bagchi (Additional Vice-President, Calcutta). Dr. A. C. Ukil (Additional Member, Calcutta).
<i>National Academy of Sciences (India)</i>	Prof. A. C. Banerji (Additional Vice-President, Allahabad). Dr. P. L. Srivastava (Additional Member, Allahabad).
<i>Indian Science Congress Association</i>	Dr. J. N. Mukherjee (Additional Vice-President, Roorkee). Prof. B. Sanjiva Rao (Additional Member, Bangalore).

5. The President announced that as a result of scrutiny of voting papers received from Fellows, the following were duly elected Ordinary and Honorary Fellows of the Institute:—

#### *Ordinary Fellows.*

- Banerjee, Sachchidananda, M.Sc., M.B.B.S., D.Sc., *Professor of Physiology, Presidency College, Calcutta.* Distinguished for his work on effect of vitamins B and C on metabolism with reference to diabetes.
- Dessau, Gabor, Dr. Ing. (Rome), (*formerly geophysicist, Geological Survey of India*), *Ufficio Geologico, Rome.* Distinguished for his work on mineralogical and geophysical studies.
- Mehra, Pran Nath, D.Sc., *Head of the Department of Botany, Punjab (I) University, Amritsar.* Distinguished for his work in the field of cytology and embryology in gymnosperms, pteridophytes and huriworts.
- Panikkar, N. Kesava, M.A., D.Sc., *Chief Research Officer, Central Marine Fisheries Research Station, P.O. Mandapam Camp, S. India.* Distinguished for his work on Indian sea anemones, ecology of brackish waters at Madras and osmotic and ionic regulations in the Crustacea.
- Parthasarathy, S., D.Sc., *Assistant Director, National Physical Laboratory of India, New Delhi.* Distinguished for his work on ultrasonics and light scattering.
- Pramanik, S. K., M.Sc., Ph.D., D.I.C., *Deputy Director-General of Observatories, Meteorological Office, Poona 5.* Distinguished for his work on meteorological problems.
- Raychaudhuri, Satyaprasad, Ph.D., D.Sc., F.R.I.C., *Officer on Special Duty, Soil Conservation, Ministry of Agriculture, Government of India, New Delhi.* Distinguished for his work on various problems in electro-chemistry of colloids activated charcoal, soil classification and soil survey, etc.
- Saksena, Ram Kumar, M.Sc., Doc. es Sc., *Reader in Botany, Allahabad University Allahabad.* Distinguished for his work on physiology, cytology and life histories of many species of pythium and some other phycomyces.

- Sen, Bibhutibhushan, D.Sc., *Principal, Hooghly Mohsin College, Chinsurah, West Bengal*. Distinguished for his work in the mathematical theory of elasticity.
- Shah, Swarupchand Mohanlal, M.A., Ph.D., *Reader in Mathematics, Muslim University, Aligarh*. Distinguished for his work in the theory of integral functions, theory of numbers and difference equations.
- Singh, Inderjit, Ph.D., L.R.C.P., M.R.C.S., M.B.B.S., F.A.S., *Professor of Physiology, Agra Medical College, Agra*. Distinguished for his work on respiration-intravenous oxygen therapy, unstriated muscle and blackwater fever.
- Thapar, Govind Singh, M.Sc., Ph.D., *Reader in Zoology, Lucknow University, Lucknow*. Distinguished for his work on helminthology.
- Uppal, Harbans Lal, M.Sc., Ph.D., *Deputy Director, Irrigation Research, Hydraulic Research Station, Malakpur*. Distinguished for his work on river training, design of weirs, subsoil seepage and hydratomats.

*Honorary Fellows.*

- Prof. Dr. Bernardo A. Houssay, N. L., *Instituto de Biología y Medicina Experimental, Costa Rica 4185, Buenos Aires, South America*.
- Mark, Hermann, *Director of Polymer Research, Brooklyn Polytechnic Institute, Brooklyn, U.S.A.*

6. The President delivered his Address on 'Adaptation and Evolution' (see page 161).

7 (a) The following communication was made by Dr. H. N. Ray and discussed:—

A new finding in the development stages of *Babesia bigamina*.

(b) In the absence of authors, the following papers were taken as read:—

- (1) *A systematic account of the Chaetognatha of the Indian Coastal waters, with observations on their seasonal fluctuations along the Malabar Coast*. By P. C. George and communicated by Dr. H. S. Rao.
- (2) *Skull of Cyprinoid Fishes in relation to phylogenetic Studies. Part III. The skull of Homalopterid Fishes. Part IV. The skull of Gastromyzonid Fishes*. By L. S. Ramaswami and communicated by Dr. S. L. Hora.
- (3) *Evolution and distribution of the Glyptosternoid Fishes of the Family Sisoridae (Order: Siluroidea)*. By S. L. Hora and E. G. Silas;
- (4) *The optical principles of the low Angle*. By N. N. Gupta and communicated by Prof. K. Banerjee;
- (5) *The complex Band Spectrum of diatomic manganese chloride in the visible region*. By P. Tiruvenganna Rao and communicated by Prof. K. Rangadhama Rao.
- (6) *Scattering of Electrons and contrast in the electron-micrographs of shadow-cast specimens*. By A. K. Chaudhuri and communicated by Prof. M. N. Saha.
- (7) *The adiabatic oscillations of a particular model of the variable Star*. By R. S. Kushwaha and communicated by Prof. A. C. Banerji.
- (8) *A note on the relation between maximum Pressure and short-term Pressure*. By N. S. Venkatesan and communicated by Dr. R. S. Varma.

(All these papers have been recommended for publication in the *Proceedings of the Institute*.)

8. A Symposium on 'Soil Research in India' organized by Dr. J. N. Mukherjee was held from 2 to 3-30 p.m.

The Symposium continued on 2nd January, from 2-30 to 3-30 p.m.