

ANNUAL REPORT.

The Council of the National Institute of Sciences of India have the pleasure to submit the following report on the general concerns of the Institute for the year 1935, as required by the provisions of Rule 47(f).

An account of the inauguration of the Institute, as well as of the first Ordinary General Meeting has been published in the first number of the *Proceedings* of the Institute, which is already in the hands of Fellows.

Membership.

The Institute started with 124 Foundation Fellows on its roll. This number was reduced to 119 during the year by the untimely death of one Fellow and by the failure of 4 Fellows to complete the formalities required by Rules 10 and 11 for effective membership.

26 Ordinary Fellows and 7 Honorary Fellows were elected during the year in accordance with the procedure laid down in the Regulations framed for the purpose by the Council. Their names are printed at the end of the report.

The total number of Fellows on the roll is therefore 145 Ordinary Fellows (119 Foundation Fellows + 26 newly elected) and 7 Honorary Fellows.

Accommodation.

The offices of the National Institute of Sciences are located in the premises of the Asiatic Society of Bengal, where also the meetings of the Council and Ordinary General Meetings of the National Institute that take place in Calcutta are held.

The National Institute owes a debt of gratitude to the Asiatic Society of Bengal for this hospitality.

Meetings.

Two Ordinary General Meetings of the Institute were held during the year. An account of these meetings has already been published at pp. 4-5 and 115-116 of the *Proceedings* of the National Institute. Of the papers read at these meetings several have been published already while others are in course of publication. Details are given under publications.

The Council.

The Council as constituted at the first Ordinary General Meeting was as follows :—

<i>President</i>	..	..	Sir L. L. Fermor.
<i>Vice-Presidents</i>	..	..	Brigadier H. J. Couchman. Prof. B. Sahni.

<i>Treasurer</i>	Dr. S. L. Hora.
<i>Foreign Secretary</i>	Prof. M. N. Saha.
<i>Secretaries</i>	Prof. S. P. Agharkar. Dr. A. M. Heron,
<i>Members of Council</i>	Mr. M. Afzal Husain. Dr. Bains Prashad. Mr. T. P. Bhaskara Shastri. Prof. S. S. Bhatnagar. Mr. B. C. Burt. Prof. J. C. Ghosh. Dr. F. H. Gravely. Lt.-Col. R. Knowles. Dr. K. S. Krishnan. Prof. S. K. Mitra. Prof. J. N. Mukherjee. Dr. C. W. B. Normand. Prof. Ganesh Prasad. Sir C. V. Raman. Lt.-Col. S. S. Sokhey. Lt.-Col. J. Taylor. Mr. C. G. Trevor. Mr. F. Ware.

Representatives of the Asiatic Society of Bengal :—

Additional Vice-President : Rai Sir U. N. Brahmachari Bahadur.
Additional Member of Council : Mr. C. C. Calder.

Representatives of the U.P. Academy of Sciences :—

Additional Vice-President : Prof. K. N. Bahl.
Additional Member of Council : Prof. A. C. Banerji.

Representatives of the Indian Academy of Sciences :—

Additional Vice-President : Principal B. K. Singh.
Additional Member of Council : Dr. K. V. Krishnan.

Representatives of the Indian Science Congress Association :—

Additional Vice-President : Dr. J. H. Hutton.
Additional Member of Council : Mr. W. D. West.

The following changes took place during the year :—

Prof. G. Prasad died on 10-3-35. The Council at its meeting held on the 12th April nominated Prof. N. R. Sen to this vacancy.

Sir C. V. Raman ceased to be a member owing to the non-completion of the formalities required under Rules 10 and 11.

The Council held eleven meetings during the year. The most important work of the Council was to frame Regulations regarding (1) the election of Ordinary Fellows, (2) the election of Honorary Fellows, (3) Sectional Committees. The Council authorised Fellows to put the letters F.N.I. after their names to indicate their being Fellows. The Council also issued instructions to authors regarding the preparation of papers for publication in the *Transactions* and *Proceedings* of the National Institute.

These regulations have been printed and circulated to the Fellows. They are printed here as an appendix (pp. 12-17).

Sectional Committees.

At the meeting of the Council held in April, 1935 Sectional Committees for the various branches of science were appointed. In accordance with the regulations, each committee consists of six members, except the Physiology Committee, which has nine members. The committees are as follows :—

- (1) A Mathematics Committee for Mathematics, Astronomy and Geodesy.
- (2) A Physics Committee for Pure and Applied Physics and Meteorology.
- (3) A Chemistry Committee for Pure and Applied Chemistry.
- (4) An Engineering Sciences Committee for Engineering, Mining, Metallurgy, Electro-technics and kindred subjects.
- (5) A Geology Committee for Geology, Palæontology, Mineralogy and Geography.
- (6) A Botany Committee for Pure and Applied Botany, Forestry and Agronomy.
- (7) A Zoology Committee for Pure and Applied Zoology, Anthropology and Ethnology.
- (8) A Physiology Committee for Animal Physiology and Medical subjects.

The Council at its meeting held on the 8th January, 1935 appointed a Finance Committee consisting of the President, the two Secretaries and the Treasurer to supervise its financial administration and for purposes of Rule 53. The Treasurer was to be the convener of the committee.

In pursuance of the provisions of Rule 64, the Council appointed a committee for Seismology of which Dr. S. K. Banerji, Prof. M. N. Saha, Prof. N. R. Sen and Mr. W. D. West (Secretary) have been appointed members.

International Congresses.

The Council appointed Prof. B. Sahni and Prof. S. P. Agharkar as its representatives to the 6th International Botanical Congress held in September, 1935 at Amsterdam.

Publications.

At its meeting held on the 8th January, 1935 the Council appointed a publication committee consisting of the President, the two Secretaries and the Treasurer with power to co-opt additional members if necessary.

At its meeting held on the 8th February, 1935 the Council decided that the publications of the Institute should be the following :—

(1) *Transactions*, containing longer papers, (2) *Proceedings*, containing shorter papers and reports of the General Meetings, (3) *Indian Science Abstracts*, being an Annotated Bibliography of Science in India, and (4) *Annual Review of the Progress of Science* in India.

At its meeting held on the 12th April, 1935 the Council appointed Dr. B. Prashad to be the General Editor of the publications of the Institute.

Two numbers of the *Proceedings* and five numbers of the *Transactions* have been published during the year and copies have been circulated to Fellows. Arrangements have been made with the help of Associate Editors for different subjects for the collection of material for the *Indian Science Abstracts*. It is hoped to be able to bring out the first issue of this publication early in 1936.

The publications of the Institute are being supplied either as presentations or in exchange to 65 learned Societies and Institutions.

Library.

195 books and parts of periodicals have been received for the library during the year, either as presentations or in exchange for the publications of the Institute.

A complete set of the 'Bulletin of the Calcutta Mathematical Society' (Vols. I-XXV) that was presented to the President, Sir Lewis Fermor, by the late Professor Ganesh Prasad was transferred by him to the Institute's library.

Presents and Donations.

The following presents and donations have been received by the National Institute of Sciences of India during the year :—

(1) A donation of Rs. 1,000 from Mr. D. N. Wadia, in memory of his wife, for furnishing the office of the Institute.

(2) An electric fan with regulator from Mr. B. K. Rohatgi, Managing Director, Indian Electric Works, Ltd., for the office of the Institute.

(3) A donation of Rs. 15,000 from the Burmah Oil Company, Ltd., for the general funds of the Institute.

(4) A donation of Rs. 10,000 from the Central Provinces Manganese Ore Company, Ltd. to the general funds of the Institute.

(5) A donation of Rs. 100 from the Nagpur University for the year 1935 to the general funds of the Institute.

(6) A donation of Rs. 1,304-0-6 from the Local Reception Committee of the 22nd Session of the Indian Science Congress. (The sum to be invested in some suitable security and only its interest utilized for the purposes of the Institute.)

(7) A donation of Rs. 500 per annum for 3 years has been granted by the Imperial Council of Agricultural Research for the publication of 'Indian Science Abstracts'.

(8) A donation of Rs. 1,000 from the Indian Copper Corporation to the general funds of the Institute.

(9) A donation of Rs. 500 per annum for 2 years by the Calcutta University to the general funds of the Institute.

(10) A donation of Rs. 200 per annum for 2 years by the Dacca University to the general funds of the Institute.

Finances.

An audited statement of accounts of the National Institute for the period from January to November, 1935 is submitted. The total receipts for the above period amount to Rs. 38,687-10-3 and the payments including purchase price of securities Rs. 29,659-0-5, leaving a balance of Rs. 9,028-9-10.

The following Government Securities and Loans have been purchased for the Institute :—

3½% G.P. Notes	Rs. 13,000 (Face Value).
4% 1960-70 Loan	Rs. 10,000 (Face Value).

Rules.

In pursuance of the decision of the Council of the National Institute of Sciences of India at its meeting held on the 8th January, 1935 that it had the power to make such changes in the Provisional Rules as were found to be necessary for the efficient conduct of its affairs, the following alterations were made :—

(1) A new Rule 46A was added to provide for carrying on the work of the Institute during the temporary absence of the Secretaries, or the Treasurer from Headquarters :—

‘Rule 46A. In the absence from Headquarters either of the Secretaries or the Treasurer, the President shall designate one of the members of the Council to continue his functions until his return to the Headquarters, subject to the confirmation of the Council at the first opportunity. Such member of Council shall be entitled to sign papers for Secretary or Treasurer respectively.’ (Adopted on 8-1-35.)

(2) Rule 43 was modified in order to make its meaning more precise.

‘Each year three members of the Council not being the President, Treasurer, or Secretaries, shall retire from the Council and shall not be eligible for re-election until after the lapse of one year from the date of their retirement. For the purpose of this rule the Editor shall be regarded as a Secretary. The retirement shall be decided by seniority, except in so far as vacancies have otherwise occurred. In the event of equal seniority the seniority shall be determined by lot.’ (Adopted on 19-11-35.)

The Council at its meeting held on 19th November, 1935 decided to appoint a committee consisting of Sir Lewis Fermor, Brigadier H. J. Couchman, Prof. S. P. Agharkar and Dr. A. M. Heron to propose such further alterations to the rules as were found necessary by experience. All these changes are being placed before the Annual General Meeting for adoption.

APPENDICES.

- I. List of Fellows.
- II. Regulations.
- III. Abstract of Proceedings of the Council.
- IV. Committees, 1935.
- V. Statement of receipts and payments.
- VI. Budget estimate for the following year.

APPENDIX I.

LIST OF FELLOWS.

ORDINARY FELLOWS.

- AGHARKAR, S. P., M.A., Ph.D., F.L.S., Ghose Professor of Botany, Calcutta University, Calcutta.
- AHMAD, NAZIR, M.Sc., Ph.D., Director, Indian Central Cotton Committee's Technological Laboratory, Matunga, Bombay.
- AJREKAR, S. L., B.A., I.E.S., Professor of Botany, Gujerat College, Ahmedabad.
- ANANDARAO, K., M.A., I.E.S., Professor of Mathematics, Presidency College, Madras.
- ASH, W. C., B.Sc., M.I.C.E., A.M.I.Mech.E., Bengal Club, Calcutta.
- AWATI, P. R., B.A., D.I.C., I.E.S., Professor of Zoology, Royal Institute of Science, Mayo Road, Bombay I.
- BAGCHEE, K. D., D.Sc., Mycologist, Imperial Forest Research Institute, Dehra Dun, U.P.
- BAHL, K. N., D.Sc., D.Phil., Professor of Zoology, Lucknow University, Lucknow.
- BANERJI, A. C., M.Sc., M.A., F.R.A.S., I.E.S., Professor of Mathematics, Allahabad University, Allahabad.
- BANERJI, S. K., D.Sc., Meteorologist, Meteorological Office, Poona 5.
- BEESON, C. F. C., D.Sc., Forest Entomologist, Imperial Institute of Forest Research, Dehra Dun, U.P.
- BHASKARA SHASTRI, T. P., M.A., F.R.A.S., Director, Nizamia Observatory, Hyderabad (Deccan).
- BHATNAGAR, S. S., O.B.E., D.Sc., University Professor of Chemistry, and Director, University Chemical Laboratories, Lahore.
- BHATTACHARYA, D. R., M.Sc., Ph.D., Dr.ès Sciences (Paris), Professor of Zoology, Allahabad University, 7, Malaviya Road, Allahabad.
- BOMFORD, Captain Guy, R.E., Survey of India, Dehra Dun. (1935).
- BOSE, D. M., M.A., B.Sc., Ph.D., Ghose Professor of Physics, Calcutta University, Calcutta.
- BOSE, G. S., D.Sc., M.B., Head of the Department of Experimental Psychology, Calcutta University, 92, Upper Circular Road, Calcutta.
- BOSE, Sir J. C., Kt., C.S.I., C.I.E., M.A., D.Sc., F.A.S.B., F.R.S., Director, Bose Research Institute, 93, Upper Circular Road, Calcutta.
- BOSE, S. N., M.Sc., Professor of Physics, Dacca University, Dacca.
- BOSE, S. R., M.A., Ph.D., F.R.S.E., Professor of Botany, Carmichael Medical College, Calcutta. (1935).
- BRAHMACHARI, Rai Bahadur, Sir U. N., Kt., M.A., M.D., Ph.D., F.A.S.B., K.I.H., 82-3, Cornwallis Street, Calcutta.
- BURNS, W., D.Sc., I.A.S., Director of Agriculture, Bombay, Poona. (1935).
- BURRIDGE, W., D.M., M.A. (Oxon), Professor of Physiology, Lucknow University, Lucknow.
- BURT, Sir B. C., Kt., C.I.E., M.B.E., B.Sc., I.A.S., Offg. Vice-Chairman, Imperial Council of Agricultural Research, New Delhi.
- CALDER, C. C., B.Sc. (Agr.), F.L.S., Director, Botanical Survey of India, and Superintendent, Royal Botanic Gardens, Sibpur, Howrah.
- CHAKRAVARTI, S. N., M.Sc., D.Phil., Professor of Chemistry, Annamalai University, Annamalaiagar, Madras. (1935).
- CHAMPION, H. G., M.A., Sylviculturist, Imperial Forest Research Institute, Dehra Dun.
- CHATTERJEE, G., M.Sc., Meteorologist-in-Charge, Upper Air Observatory, Agra. (1935).
- CHAUDHURI, H., M.Sc., Ph.D., D.I.C., Reader in Botany, Punjab University, Lahore.
- CHOPRA, B. N., D.Sc., F.L.S., Assistant Superintendent, Zoological Survey of India, Indian Museum, Calcutta. (1935).

- CHOPRA, Lt.-Col. R. N., C.I.E., M.B., I.M.S., Offg. Director, School of Tropical Medicine, Calcutta.
- CHOWLA, S. D., M.A., Ph.D., Reader in Mathematics, Andhra University, Waltair.
- COUCHMAN, Brigadier H. J., D.S.O., M.C., Surveyor-General of India, Calcutta.
- COULSON, A. L., D.Sc., D.I.C., F.G.S., Assistant Superintendent, Geological Survey of India, Indian Museum, Calcutta. (1935).
- DAS, Sir Kedarnath, Kt., M.D., F.C.O.G., F.S.M.F., Principal, Carmichael Medical College, Belgachia, Calcutta.
- DASTUR, R. H., M.Sc., Professor of Botany, Royal Institute of Science, Mayo Road, Bombay 1.
- DATTA, S., M.Sc., D.Sc., D.I.C., Professor of Physics, Presidency College, Calcutta. (1935).
- DEY, B. B., D.Sc., F.I.C., I.E.S., Professor of Chemistry, Presidency College, Madras.
- DHAR, N. R., D.Sc., I.E.S., University Professor of Chemistry, Allahabad.
- DUNN, J. A., D.Sc., D.I.C., F.G.S., Assistant Superintendent, Geological Survey of India, Indian Museum, Calcutta. (1935).
- DUNNICLIFF, H. B., M.A., Sc.D., F.I.C., I.E.S., University Professor of Inorganic Chemistry, Government College, Lahore.
- DUTT, S. B., D.Sc., Reader in Organic Chemistry, Allahabad University, Allahabad. (1935).
- EVANS, P., B.A., F.G.S., Geologist, The Burma Oil Company, Ltd., P.O. Digboi, Assam.
- FERMOR, Sir L. L., Kt., O.B.E., D.Sc., A.R.S.M., M.Inst.M.M., F.G.S., F.A.S.B., F.R.S., Director, Geological Survey of India (Retd.), Calcutta.
- FORSTER, Sir M. O., Kt., D.Sc., Ph.D., F.R.S., Old Banni Mantap, Mysore City.
- FOWLER, Gilbert J., D.Sc., F.I.C., Consulting Chemist, Central Hotel, Bangalore.
- FOX, C. S., D.Sc., M.I.Min.E., Superintendent, Geological Survey of India, Calcutta.
- GEE, E. R., M.A., F.G.S., Assistant Superintendent, Geological Survey of India, Indian Museum, Calcutta. (1935).
- GHOSE, S. L., M.Sc., Ph.D., Professor of Botany, Government College, Lahore.
- GHOSH, J. C., D.Sc., University Professor and Head of the Department of Chemistry, Dacca University, Dacca.
- GHOSH, P. N., M.A., Ph.D., Sc.D. (Hon.), F.Inst.P., Ghosh Professor of Applied Physics, Calcutta University, 92, Upper Circular Road, Calcutta.
- GLENNIE, Major E. A., D.S.O., R.E., Survey of India, Dehra Dun.
- GRAVELY, F. H., D.Sc., F.A.S.B., Superintendent, Government Museum, Museum House, Egmore, Madras.
- GUHA, B. S., M.A., Ph.D., Assistant Superintendent, Zoological Survey of India, Indian Museum, Calcutta.
- GUHA, P. C., D.Sc., Acting Professor of Organic Chemistry, Indian Institute of Science, Bangalore. (1935).
- HADDOW, J. R., B.Sc., M.R.C.V.S., D.V.S.M., Veterinary Research Officer-in-charge of Serology, Imperial Veterinary Research Institute, Muktesar, U.P.
- HERON, A. M., D.Sc., F.G.S., F.R.G.S., F.R.S.E., Director, Geological Survey of India, Calcutta.
- HORA, S. L., D.Sc., F.R.S.E., F.L.S., F.Z.S., F.A.S.B., Superintendent, Zoological Survey of India, Indian Museum, Calcutta.
- HUSSAIN, M. Afzal, Khan Bahadur, M.A., M.Sc., I.A.S., Principal, Punjab Agricultural College, Lyallpur, Punjab.
- HUTTON, J. H., C.I.E., M.A., D.Sc., F.A.S.B., I.C.S., Deputy Commissioner, Nowgong, Assam.
- IYENGAR, M. O. P., M.A., Ph.D., F.L.S., University Professor of Botany, Madras.
- IYER, L. K. Ananthakrishna, Dewan Bahadur, B.A., L.T., Officer-in-charge of Ethnographic Survey, Mysore, Lakshminarayanapuram, Palghat, P.O. Kulpathi.
- KAPUR, S. N., Ph.D., Imperial Forest Research Institute, Dehra Dun.
- KICHLU, P. K., D.Sc., Professor of Physics, Government College, Lahore. (1935).
- KNOWLES, Lt.-Col. R., B.A., M.R.C.S., L.R.C.P., F.A.S.B., I.M.S., Professor of Protozoology, School of Tropical Medicine, Calcutta.

- KOSHY, P. K., F.R.C.P., Professor of Anatomy, Medical College, Madras.
- KRISHNA, S., Ph.D., D.Sc., F.I.C., Forest Biochemist, Imperial Forest Research Institute, Dehra Dun (U.P.).
- KRISHNAN, K. S., D.Sc., Mahendra Lal Sircar Professor of Physics, Indian Association for the Cultivation of Science, 210, Bow Bazar Street, Calcutta.
- KRISHNAN, K. V., M.B.B.S., L.R.C.P., D.B., D.Sc., Bacteriological Research Officer, School of Tropical Medicine, Calcutta.
- KRISHNAN, M. S., Ph.D., A.R.C.S., D.I.C., Assistant Superintendent, Geological Survey of India, Indian Museum, Calcutta. (1935).
- LAL, R. B., M.B.B.S., D.P.H., D.T.M. & H., D.B., Offg. Director, All-India Institute of Hygiene & Public Health, Calcutta. (1935).
- MACMAHON, P. S., M.Sc., B.Sc. (Oxon), F.I.C., I.E.S., Professor of Chemistry, Lucknow University, Lucknow.
- MAHAJANI, G. S., M.A., Ph.D., Principal and Professor of Mathematics, Fergusson College, Poona 4.
- MAHALANOBIS, P. C., M.A., B.Sc., I.E.S., Professor of Physics, Presidency College, Calcutta.
- MAHESWARI, P., D.Sc., Associate Professor of Botany, Agra College, Agra. (1935).
- MATHUR, K. K., B.Sc. (Hons.) (Lond.), A.R.S.M., University Professor of Geology, Hindu University, Benares.
- MATTHAI, George, M.A., Sc.D., F.L.S., F.Z.S., F.R.S.E., Professor of Zoology, Government College, Lahore.
- MEHRA, H. R., M.Sc., Ph.D., Reader in Zoology, Allahabad University, Allahabad.
- MEHTA, K. C., M.Sc., Ph.D., Professor of Botany, Agra College, Agra.
- METCALFE, E. P., D.Sc., F.Inst.P., Vice-Chancellor, Mysore University, Bangalore.
- MITRA, S. K., D.Sc., Ghose Professor of Physics, Calcutta University, 92, Upper Circular Road, Calcutta.
- MITTER, P. C., M.A., Ph.D., Ghosh Professor of Chemistry, Calcutta University, 92, Upper Circular Road, Calcutta.
- MOHAMMAD, Wali, M.A., Ph.D., I.E.S., University Professor of Physics, Lucknow University, Lucknow.
- MOOKERJEE, Sir R. N., K.C.I.E., K.C.V.O., Hon. M.I.M.E., M.I.E. (Ind.), Hon. F.A.S.B., Hon. D.Sc. (Cal.), Senior Partner, Martin & Co., and Burn & Co., 12, Mission Row, Calcutta.
- MOWDAWALLA, F. N., M.A., M.I.E.E., Mem.A.I.E.E., M.I.E., Principal and Professor of Electrical Engineering, University College of Engineering, Bangalore.
- MUKHERJEE, J. N., D.Sc., F.C.S., Khaira Professor of Chemistry, Calcutta University, 92, Upper Circular Road, Calcutta.
- NAIK, K. G., D.Sc., F.I.C., Professor of Chemistry, Baroda College, Baroda.
- NARAYAN, A. L., M.A., D.Sc., Solar Physics Observatory, Kodaikanal.
- NORMAND, C. W. B., M.A., D.Sc., Director-General of Observatories, Meteorological Office, Poona 5.
- OLVER, Col. A., C.B., C.M.G., F.R.C.V.S., Animal Husbandry Expert, Imperial Council of Agricultural Research, New Delhi.
- PARANJPYE, R. P., D.Sc., Vice-Chancellor, Lucknow University, Lucknow.
- PARIJA, P. K., M.A., B.Sc., I.E.S., Professor of Botany, Ravenshaw College, Cuttack.
- PENMAN, D., D.Sc., F.R.S.E., Chief Inspector of Mines in India, Dhanbad.
- PHILPOT, H. P., B.Sc. (Eng.), A.M.Inst.C.E., A.M.I.Mech.E., M.I.A.E., Professor of Engineering, Hindu University, Benares.
- PINFOLD, E. S., M.A., F.G.S., Geologist, The Attock Oil Co., Ltd., Rawalpindi.
- PRASAD, Mata, D.Sc., F.I.C., Professor of Inorganic & Physical Chemistry, Royal Institute of Science, Bombay. (1935).
- PRASHAD, Bainsi, D.Sc., F.R.S.E., F.L.S., F.Z.S., F.A.S.B., M.B.O.U., Director, Zoological Survey of India, Indian Museum, Calcutta.
- PRUTHI, H. S., M.Sc., Ph.D., Imperial Entomologist, Imperial Institute of Agricultural Research, Pusa.
- QURESHI, Muzaffaruddin, Ph.D., Professor of Chemistry, Osmania University, Hyderabad (Deccan).

- RAJ, B. Sundara, M.A., Ph.D., Director of Fisheries, Madras. (1935).
- RAMANATHAN, K. R., M.A., D.Sc., Meteorologist, Weather Office, Poona 5.
- RAMDAS, L. A., M.A., Ph.D., Agricultural Meteorologist, Poona. (1935).
- RANGASWAMI AYYANGAR, G. N. B.A., I.A.S., Millets Specialist, Agricultural Research Institute, P.O. Lawley Road, Coimbatore, S.I.
- RAO, B. Rama, M.A., D.I.C., F.G.S., Geological Survey Department, Mysore State, Bangalore.
- RAO, C. R. Narayana, M.A., Professor of Zoology, Central College, Bangalore.
- RAO, C. V. Hanumantha, M.A., Professor of Mathematics, Punjab University, Lahore.
- RAY, B. B., D.Sc., Khaira Professor of Physics, Calcutta University, 92, Upper Circular Road, Calcutta. (1935).
- RAY, J. N., D.Sc., Ph.D., F.I.C., Professor of Organic Chemistry, University Chemical Laboratories, Lahore. (1935).
- RAY, Sir P. C., Kt., M.A., Ph.D., D.Sc., F.A.S.B., Palit Professor of Chemistry, Calcutta University, Calcutta.
- RAY, P. R., M.A., Lecturer in Chemistry, Calcutta University, 92, Upper Circular Road, Calcutta.
- ROW, Lt.-Col. R., M.D., D.Sc., I.M.S. (Hon.), New Marine Lines, Bombay 1.
- ROY, S. C., Rai Bahadur, M.A., B.L., Editor, 'Man in India', Ranchi.
- ROYDS, T., D.Sc., Director, Solar Physics Observatory, Kodaikanal.
- SAHA, M. N., D.Sc., F.R.S., F.A.S.B., University Professor of Physics, Allahabad University, Allahabad.
- SAHNI, B., M.A., Sc.D., D.Sc., F.G.S., F.A.S.B., University Professor of Botany, Lucknow University, Lucknow.
- SARKAR, P. B., Dr. ès Sc., Lecturer in Chemistry, Calcutta University, 92, Upper Circular Road, Calcutta. (1935).
- SEN, B. M., M.A., M.Sc., I.E.S., Principal, Presidency College, Calcutta.
- SEN, H. K., M.A., D.Sc., D.I.C., Ghose Professor of Applied Chemistry, Calcutta University, 92, Upper Circular Road, Calcutta.
- SEN, J. M., B.Sc., M.Ed., F.R.G.S., Asst. Director of Public Instruction, Bengal, Calcutta. (1935).
- SEN, N. R., D.Sc., Ghose Professor of Applied Mathematics, Calcutta University, 92, Upper Circular Road, Calcutta.
- SENGUPTA, N. N., Ph.D., Professor of Psychology, Lucknow University, Lucknow.
- SHAW, F. J. F., D.Sc., A.R.C.S., F.L.S., Imperial Economic Botanist, Old Secretariat, Civil Lines, Delhi.
- SINGH, B. K., M.A., Sc.D., F.I.C., I.E.S., Professor of Chemistry, Science College, Patna.
- SINTON, Lt.-Col. J. A., V. C., O.B.E., M.D., D.Sc., D.P.H., D.T.M., I.M.S., Director, Malaria Survey of India, Kasauli (Simla Hills).
- SOKHEY, Lt.-Col. S. S., M.A., M.D., D.T.M. & H., I.M.S., Director, Haffkine Institute, Parel, Bombay.
- SPENCER, E., D.Sc., Ph.D., F.I.C., A.R.S.M., M.I.M.M., F.G.S., Consulting Chemist, Bird & Co., Calcutta.
- SRIVASTAVA, P. L., M.A., D.Phil., Reader in Mathematics, Allahabad University, Allahabad. (1935).
- SUBRAHMANYAN, V., D.Sc., F.I.C., Department of Biochemistry, Indian Institute of Science, Bangalore.
- TAYLOR, Lt.-Col. J., D.S.O., M.D., D.P.H., I.M.S., Director, Central Research Institute, Kasauli (Simla Hills).
- TIRUMURTI, T. S., Rao Bahadur, B.A., M.B. & C.M., D.T.M. & H., Professor of Pathology, Medical College, Vizagapatam.
- TREVOR, C. G., C.I.E., President, Imperial Forest Research Institute, Dehra Dun.
- UKIL, A. C., M.B., M.S.P.E., Tuberculosis Research Officer, All-India Institute of Hygiene and Public Health, Calcutta. (1935).

- VENKATARAMAN, T. S., Rao Bahadur, B.A., I.A.S., Imperial Sugar Cane Specialist, P.O. Lawley Road, Coimbatore.
- VENKATESACHAR, B., Rao Bahadur, M.A., F.Inst.P., Professor of Physics, Central College, Bangalore.
- VIJAYARAGHAVAN, T., Ph.D. (Oxon), Reader in Mathematics, Dacca University, Ramna, Dacca.
- VISHWANATH, B., Rao Bahadur, F.I.C., Imperial Agricultural Chemist, Imperial Agricultural Research Institute, Pusa.
- WADIA, D. N., M.A., B.Sc., F.G.S., F.R.G.S., F.A.S.B., Assistant Superintendent, Geological Survey of India, Indian Museum, Calcutta.
- WARE, F., F.R.C.V.S., I.V.S., Director, Imperial Institute of Veterinary Research, Muktesar (U.P.).
- WEST, W. D., M.A. (Cantab.), Assistant Superintendent, Geological Survey of India, Calcutta.
- WHEELER, T. S., Ph.D., F.R.C.Sc.I., F.I.C., F.Inst.P., M.I.Chem.E., Principal, Royal Institute of Science, Mayo Road, Fort, Bombay 1.
- WRAIGHT, E. A., C.I.E., A.R.S.M., M.I.M.M., F.I.C., Metallurgical Inspector, Jamshedpur (B. & O.).

HONORARY FELLOWS.

- PROFESSOR NIELS BOHR, N.L., 15, Blegdamsvej, Copenhagen.
- PROFESSOR ALBERT EINSTEIN, N.L., Princeton University, New Jersey, U.S.A.
- SIR THOMAS H. HOLLAND, K.C.S.I., K.C.I.E., D.Sc., F.R.S., Principal of the University of Edinburgh.
- SIR FREDERICK GOWLAND HOPKINS, Kt., M.A., D.Sc., N.L., F.R.S., Sir William Dunn Professor of Biochemistry in the University of Cambridge.
- SIR GUY A. K. MARSHALL, Kt., C.M.G., F.R.S., Director, Imperial Institute of Entomology, London.
- LORD RUTHERFORD OF NELSON, O.M., N.L., F.R.S., Cavendish Professor of Physics, Cambridge.
- SIR CHARLES S. SHERRINGTON, O.M., G.B.E., N.L., F.R.S., Waynflete Professor of Physiology in the University of Oxford.

APPENDIX II.

REGULATIONS.

A. REGULATIONS REGARDING THE ELECTION OF ORDINARY FELLOWS.

(Adopted by the Council at its meeting held on 8th February, 1935.)

1. Every candidate shall be proposed and recommended by a certificate in writing signed by four or more Fellows, of whom at least four¹ shall certify their recommendation from personal knowledge, but either of the two Secretaries shall have power to sign a certificate on behalf of a Fellow not resident in India on receiving a written request from him. The certificate shall specify the name, rank, profession, qualifications including a list of publications, and the usual place of residence of the candidate in a form prescribed by the Council. The form being delivered to one of the Secretaries or the Assistant Secretary shall be registered, with the date of delivery, in a book to be kept for the purpose, and read at the next meeting of the Council, and, unless otherwise ordered, shall be

¹ This number should be reduced to three, as soon as, in Rule 7(c), the figure '4' is changed to '3'.

suspended in some convenient place in the office of the Institute until the day of election. A Fellow may propose or second only one candidate; plural proposing or seconding shall invalidate all his nominations. But a Fellow who has nominated or seconded one candidate can support others.

2. Of the Fellows who sign a certificate from personal knowledge of the candidate, two shall undertake the responsibility of acting as proposer and seconder respectively, in so far that all communications on the subject of the candidature shall take place with one of these. The proposer shall be responsible for informing the candidate of the obligation to be subscribed and of the payments to be made to the Institute before he can be admitted as a Fellow.

3. At a meeting of the Council of the National Institute held in April, the names of all candidates proposed prior to the first day of April, and subsequent to the last announcement of names of candidates, and also the names of those candidates whose certificates have been resuspended as hereinafter provided, shall be announced by one of the Secretaries from a printed list arranged in alphabetical order without reference to the dates of the certificates of the candidates, together with the names of the Fellows by whom each candidate is proposed, seconded and supported; and a copy shall immediately thereafter be sent to every Fellow.

4. At this meeting the Council shall also consider the list of candidates, and then circulate to all members of the Council such observations as may be decided upon in the meeting, and also draw up the instructions to be given to the Sectional Committees, should it be decided to refer to these Committees the list of candidates for their recommendations.

5. At the Council meeting immediately preceding the Ordinary General Meeting of the Institute held during the Monsoon, the Council shall, after considering such recommendations as may have been received, select by ballot a number not exceeding ten to be recommended to the Fellows of the Institute for election; but no such selection by the Council shall be valid unless seven members at least be present and vote, a majority deciding, or in the event of equality the Chairman having a second and casting vote.

6. Within a week after the selection by the Council, or as soon as possible thereafter, a circular letter shall be forthwith sent to every Fellow resident in India as a voting paper and enclosing a printed list of the selected candidates, with space for such alterations as any Fellow may determine to make in pursuance of Regulation 8.

7. The Fellows shall then vote for not more than the number to be elected in that year by placing a cross against the names of those they wish to be elected, and no paper with more crosses than vacancies shall be accepted.

8. A Fellow can erase the name of a candidate or candidates for whom he does not vote, and substitute the name of any other candidate or candidates contained in the printed list, mentioned in Regulation 3 above.

9. The voting paper shall not be signed but enclosed in a sealed envelope, which shall be forwarded to one of the Secretaries in an outer cover with a covering letter signed by the Fellow so as to reach the office of the Institute by the 30th September. In the absence of a covering letter, the voting paper shall be invalid.

10. At the first meeting of the Council to be held after the 30th September, the Chairman shall appoint two Scrutineers. The Scrutineers, after having opened the voting papers with the Secretaries, shall report to the Chairman the number of votes received by each candidate. In the case of a tie, the Chairman shall have a casting vote. The Chairman shall then announce from the Chair the names of candidates who have been elected, and the results of the election shall be forthwith notified to all Fellows by post.

11. Any candidate whose name shall have been printed in a previous list of candidates, but who shall not have been elected, shall, unless his proposer or seconder withdraws his name before the 30th March immediately preceding an election, be a candidate at such election; his name shall be placed in alphabetical order with those of the new candidates to be announced in April following, and his certificate shall be suspended along with those of the new candidates. Provided always that the same certificate shall not be valid for more than five successive elections. Any separate paper attached to the certificate, if intended to be printed for circulation to the Fellows, shall bear the signatures of four of the signatories to the certificate. Corrections of fact may be made upon the certificate after it has been sent in, if initialled by the proposer and seconder, and marked unmistakably as **new matter**.

12. In cases in which the Council is of opinion that, in the interests of the advancement of Natural Knowledge, it is desirable that persons be elected Fellows of the Institute otherwise than as provided by Regulations 1 to 10, they may recommend to the Institute for election persons, who, in their opinion, either have rendered

conspicuous service to the cause of science in India, or are such that their election would be of signal benefit to the Institute. Provided that not more than two persons shall be so recommended in any calendar year, and if two persons be elected in any one year there shall be no election in the following year. The persons to be so recommended shall be selected by the Council by ballot, provided always that no person shall be so recommended unless he obtains two-thirds of the votes of the members of Council present and voting, the total number of votes registered in his favour being not less than seven.

At the Ordinary General Meeting of the Institute next following the Meeting of Council at which such selection is made, the person or persons nominated shall be proposed for election by means of a certificate prepared in accordance with Regulation 1, no distinction, however, being made between personal and general knowledge. Such certificate, on being allowed by the Institute, shall be suspended in some convenient place in the rooms or office of the Institute until the day on which a ballot is taken upon it. The name of the person so proposed shall be posted to each Fellow for voting by a date given on the ballot paper. The result of the ballot shall be ascertained at the next meeting of the Council after the close of the ballot, following the procedure of Regulation 10.

12A. In the year 1935, names of candidates shall be received up till April 30th, and announced at the Council Meeting to be held in May. The general instructions for the guidance of Sectional Committees shall be drawn up at the April Meeting on general grounds prior to the completion of the list of candidates.

A maximum of 25 Fellows plus one Fellow for the one vacancy that exists in the initial 125 Foundation Fellows shall be elected in 1935.

B. REGULATIONS REGARDING THE ELECTION OF HONORARY FELLOWS.

(Adopted by the Council at its meeting held on the 12th April, 1935.)

1. A book shall be kept in which Fellows of the Institute may enter the names of those men of science whom they suggest as Honorary Fellows; or if the Fellow be not resident at the Headquarters of the Institute, he may send his suggestions by post, and ask one of the Secretaries to enter the proposals on his behalf in the book. Each entry shall be signed by the proposer, or by one of the Secretaries on his behalf, and be accompanied by a statement of the principal grounds on which the suggestion is made, and shall be valid for three years only.

2. A list of the persons so entered shall be sent to each member of the Council, together with notice of the Meeting at which the list will be considered. At the Meeting thus appointed further entries may be made and the claims of those men of science whose names have been duly entered in the book shall be considered, and a selection of names shall be made, from among which the Council, at a subsequent Meeting to be then appointed, may make nominations to the Institute. In making this selection account shall be taken of expressions of opinion received by post from members of Council absent from the Meeting.

3. At the second Meeting of the Council the selection of candidates to be so nominated for Honorary Fellowship up to the number permissible under Rule 15 shall be by ballot; but no candidate shall be selected who does not secure the votes of two-thirds of the members of the Council present in favour of his nomination.

4. The names of the candidates so selected shall be circulated to every Fellow resident in India on a voting paper to be returned by a date prescribed. The Fellows shall vote by placing a cross against the names of those they wish to be elected.

5. The voting paper shall not be signed but enclosed in a sealed envelope, which shall be forwarded to one of the Secretaries in an outer cover with a covering letter signed by the Fellow so as to reach the office of the Institute by the date prescribed. In the absence of a covering letter, the voting paper shall be invalid.

6. At the first Meeting of the Council to be held after the date prescribed, the Chairman shall appoint two Scrutineers. The Scrutineers, after having opened the voting papers with the Secretaries, shall report to the Chairman the number of votes received by each candidate. The Chairman shall then announce from the Chair the names of candidates who have secured the votes of two-thirds of the Fellows voting and shall declare them as duly elected, and the results of the election shall be forthwith notified to all Fellows by post.

C. REGULATIONS REGARDING SECTIONAL COMMITTEES.

1. The Council shall appoint, from among the Fellows of the Institute, Committees representing the several branches of Natural Knowledge and called 'Sectional Committees'. The Members of each Committee shall be chosen with a view to secure, so far as is possible, a representation of the several subdivisions of each branch of Natural Knowledge, and to obtain the assistance of Fellows who are specially qualified to advise the Council regarding particular parts of Natural Knowledge.

2. Each Sectional Committee shall advise the Council or any of the Officers upon matters referred to it by the Council or by any of the Officers, and otherwise shall make to the Council such suggestions as it may think desirable touching the branch or branches of knowledge which it represents; it being understood that no Sectional Committee shall offer advice to the Council as to the selection of candidates for admission into the Institute as Ordinary Fellows or Honorary Fellows unless the Council shall have asked for such advice.

3. The Council shall each year appoint a Member of each Committee to serve as Secretary and Convener of that Committee, and to be the channel of communication between the Committee and the Council or Officers. There shall be no permanent Chairman, but a Chairman shall be elected at each meeting. The Secretary shall be eligible to be elected Chairman.

4. The Sectional Committees shall be eight in number :—

- (1) A Mathematics Committee for Mathematics and Astronomy and Geodesy.
- (2) A Physics Committee for Pure and Applied Physics and Meteorology.
- (3) A Chemistry Committee for Pure and Applied Chemistry.
- (4) An Engineering Sciences Committee for Engineering and Mining, Metallurgy, Electro-technics and kindred subjects.
- (5) A Geology Committee for Geology, Palæontology, Mineralogy and Geography.
- (6) A Botany Committee for Pure and Applied Botany, Forestry and Agronomy.
- (7) A Zoology Committee for Pure and Applied Zoology, Anthropology and Ethnology.
- (8) A Physiology Committee for Animal Physiology and Medical subjects.

5. Committees Nos. 1 to 7 shall consist each of six Members, and Committee No. 8 of nine Members. In Committees Nos. 1 to 7 three Members shall constitute a quorum, and in Committee No. 8 four Members shall constitute a quorum.

6. In all cases it shall be competent to the Secretary of a Sectional Committee to conduct business by correspondence. If a Member does not reply on any matter referred to him within two weeks, his assent on such matter will be assumed.

7. The Fellows appointed to Sectional Committees in 1935 shall be eligible to hold office until the 31st December, 1936, and thereafter Members shall be retired by seniority at the rate of one-third every year. Where necessary, retirement shall be determined by ballot.

8. The retiring Members of the Committee shall each year vacate office on the 31st of December, and shall not be eligible for election for the ensuing year.

9. Should, by reason of death or otherwise, a vacancy occur at any intermediate time, the Council shall appoint a person to fill the vacancy, and the retirement of the person so nominated shall be according to the rules that would have applied to the Member whose place he fills, provided that, if at the date of retirement the said person has not served more than one year, he shall be eligible for immediate reappointment.

10. The appointment of the Fellows to serve as new Members of Committee shall be made by the Committee in December and the Members so appointed shall enter office upon the 1st of January ensuing.

10A. Provided that in 1935 the Sectional Committees will be selected by the Council as soon as convenient.

D. THE PREPARATION OF PAPERS FOR PUBLICATION IN THE TRANSACTIONS AND PROCEEDINGS OF THE INSTITUTE.*Instructions to Authors.*

In view of the high cost of publication, authors of papers are requested to write their communications in as concise a form as possible and to avoid excess of tables and illustrations.

An author is advised to retain a copy of his paper, as the Institute cannot undertake any responsibility in relation to the custody of papers entrusted to it. The MS. must be easily legible, preferably typewritten on one side of quarto or foolscap paper and with pages numbered. *It must be in its final form for printing.* A short summary of the important points in the paper should be given. A table of contents (for a long paper), references to plates, etc. must be in their proper places, and positions indicated for the insertion of illustrations that are to appear in the text. Names of genera and species should be in italics.

Additions to a paper after it has been finally handed in for publication, if accepted by the Council, will be treated and dated as separate communications, and may, or may not be printed immediately after the original paper.

References to literature should be placed at the end of the paper, alphabetically arranged, under author's name, with abridged titles of journals, thus :—

ANNANDALE, N., and HORA, S. L.—Parallel Evolution in the Fish and Tadpoles of Mountain Torrents. *Rec. Ind. Mus.*, vol. 24, pp. 505-509, (1922).

JONES, F. W.—The changing point of view. *Med. Journ. Australia*, vol. 2, pp. 251-268, (1931).

KERR, J. G.—Notes on the dry-season habits of *Lepidosiren*. *Proc. Zool. Soc. London*, pp. 41-44, (1898).

Titles of papers should be quoted exactly, and all references to literature should be carefully checked by the authors before submitting the paper. References to literature in the text should be made by quoting the author's name and the year of publication *thus* Kerr (1898) or (Kerr, 1898), according to circumstances, and adding the page when necessary.

All illustrations must be in a form immediately suitable for reproduction, preferably of a size to permit reduction to about two-thirds the linear dimensions of the original, and should be capable of reproduction by photographic processes. Drawings and diagrams to be reproduced as line blocks should be made with fixed Indian ink, preferably on fine white Bristol board, free from folds or creases; smooth clean lines or sharp dots, but no washes or colours, should be used. Graphs should be on squared paper ruled in *faint blue* lines, unless the lines are to be brought out. If the illustrations are on a large scale to be reduced afterwards by photography, lettering must be on a corresponding scale.

For fine pencil sketches, and line and wash sketches, the whitest base available should be used. The lightest tones or lines should be a little stronger than is desired in the reproduction and the heavier tones strengthened in proportion, so that in reproduction the whole scale of tones may be adjusted to bring the base into its proper relationship. Otherwise a very light pencil line or a weak wash will not reproduce as a stronger tone than the base, but will merge with it and be lost. Fine pencil lines should be uniform throughout.

Drawings and photographic prints should be kept as clean as possible.

When the illustrations are to form plates, a scheme for the arrangement of figures in Roy. 4to plates, for the *Transactions*, and in Super Roy. 8vo for the *Proceedings*, must be given, and the figures numbered (and, when necessary, lettered).

Space available for figures and lettering in *Transactions*, $9\frac{1}{2}'' \times 7\frac{1}{2}''$.

" " " " in *Proceedings*, $7\frac{1}{2}'' \times 4\frac{3}{4}''$.

A proof of each paper will be sent to the author, whose address should be given on the MS. The cost of corrections made in the proof should not exceed 5 per cent. of the printers' charges for the setting of each paper. The author may be charged with any excess.

The proof must, if possible, be returned within one week, addressed to the Secretary, National Institute of Sciences of India, 1, Park Street, Calcutta, and *not to the printer*. To prevent delay, an author residing abroad should appoint someone residing in this country to correct the proof.

The author will receive fifty reprints free, and may have any reasonable number of additional reprints at a fixed scale of prices. To prevent disappointment, especially if the paper contains plates, the author should, as soon as possible, notify to the Secretary the number of additional reprints required.

To facilitate the compilation of indexes, and to secure that due attention to the important points in a paper shall be given in General Catalogues of Scientific Literature and in Abstracts published by periodicals, each author is requested to return to the Secretary, together with the proof of his paper, a brief index (on the model given below) of the points in it which he considers new or important. These indexes will be edited by

the Secretary, and incorporated in separate indexes to be issued on completion of each volume of the *Transactions* and *Proceedings*.

MODEL INDEX.

- Hora, S. L.—Physiology, Bionomics and Evolution of the Air-breathing Fishes of India.
Trans. Nat. Inst. Sci. India, vol. , pp. , (1935).
- Fishes,—Physiology, Bionomics and Evolution of Air-breathing.
Trans. Nat. Inst. Sci. India, vol. , pp. , (1935).
- India,—Air-breathing Fishes of.
Trans. Nat. Inst. Sci. India, vol. , pp. . (1935).
- Evolution, Air-breathing habit in fishes—Probable mode of.
Trans. Nat. Inst. Sci. India, vol. , pp. , (1935).

APPENDIX III.

ABSTRACT PROCEEDINGS OF THE COUNCIL, 1935.

[NOTE.—These abstracts of the proceedings of the Council relate to questions dealt with which are likely to be of interest to Fellows. Routine matters and matters which are under consideration are not included.]

1. The Council resolved to send a representation to the Government of India against the proposed transfer of botanical type specimens from the Sibpur Herbarium to Kew and suggesting that definite rules be framed regarding the loan or gift of these. (No. 10—8-1-35.)

(Note :—A reply was received from the Government of India communicating their decision not to transfer the types and intimating that the question of framing rules for the loan and gift of specimens was being considered.)

2. The Council passed a resolution recommending to the Government of Travancore the establishment of a magnetic observatory at Cape Comorin. (No. 3—12-4-35.)

(Note :—The Government of Travancore replied stating their inability to consider the proposal in view of the financial circumstances.)

3. The Council passed a resolution recommending that a representation be made to the International Research Council and the International Scientific Unions regarding a change in the method of determining subscriptions to be paid by the adhering countries. (No. 3—12-4-35.)

In this connection it was resolved to ascertain from the Government of India whether they would be prepared to delegate to the National Institute their function of acting as the adhering body for the International Research Council and the International Scientific Unions. (No. 10—4-6-35.)

(Note :—A reply was received stating that the Government of India were not prepared to delegate this function to the National Institute.)

4. It was resolved to make a representation to the Government of India regarding the reduction in the number of author's copies of papers published by them. (No. 4—3-5-35.)

(Note :—A reply has been received communicating revised orders on the subject.)

5. The Council resolved to support proposals regarding the conservation of specific names of forest and economic plants which had been proposed by the Imperial Forest Research Institute, Dehra Dun, and requested their delegates, Prof. S. P. Agharkar and Prof. B. Sahni, to take necessary action at the 6th International Botanists' Congress to be held at Amsterdam. (No. 9—4-6-35.)

(Note :—Prof. Agharkar discussed this question with the President and Secretaries of the Nomenclature Section of the International Congress in Berlin and London, and Dr. Burt-Davy of the Forestry School, Oxford.)

At the plenary meeting of the Nomenclature Section held at Amsterdam, the principle of having a list of *nomina specifica conservanda* was rejected by a large majority. It was, however, resolved to appoint a committee including Dr. Burt-Davy to prepare a list of the valid names of economic plants according to the International Rules of Nomenclature.)

6. The Council resolved to represent to the Government of India the desirability of having seismographs installed at Karachi, Quetta, Peshawar, Lahore, Delhi, Aligarh, Lucknow, Allahabad, Benares, Nagpur, Patna, Shillong, Dacca, Digboi, Madras, Yenangyaung, Srinagar, Katmandu, Monghyr, Purnea, Mandalay and Maymyo, to obtain more detailed information regarding earth tremors.

They also resolved to appoint a permanent sub-committee consisting of Dr. S. K. Banerji, Prof. M. N. Saha, Prof. N. R. Sen and Mr. W. D. West (Secretary) to advise the Institute on seismological questions. (No. 4—23.8.35.)

7. The Council resolved to authorise Fellows to put the letters F.N.I. after their names to indicate their being Fellows. (No. 9—23.8.35.)

APPENDIX IV.

COMMITTEES, 1935.

SECTIONAL COMMITTEES.

- (1) 'Mathematics' Committee for Mathematics, Astronomy and Geodesy :—
- | | | | | |
|----------------------------|----|----|----|------------------------------------|
| Prof. A. C. Banerji | .. | .. | .. | Allahabad. |
| Mr. T. P. Bhaskara Shastri | .. | .. | .. | Hyderabad (Deccan). |
| Brigadier H. J. Couchman | .. | .. | .. | Calcutta. |
| Prof. C. V. Hanumantha Rao | .. | .. | .. | Lahore. |
| Principal G. S. Mahajani | .. | .. | .. | Poona. |
| Prof. N. R. Sen | .. | .. | .. | Calcutta (Secretary and Convener). |
- (2) 'Physics' Committee for Physics and Meteorology :—
- | | | | | |
|----------------------|----|----|----|------------------------------------|
| Dr. Nazir Ahmed | .. | .. | .. | Bombay. |
| Dr. P. N. Ghosh | .. | .. | .. | Calcutta. |
| Dr. C. W. B. Normand | .. | .. | .. | Poona. |
| Sir C. V. Raman | .. | .. | .. | Bangalore. |
| Prof. M. N. Saha | .. | .. | .. | Allahabad. |
| Prof. S. K. Mitra | .. | .. | .. | Calcutta (Secretary and Convener). |
- (3) 'Chemistry' Committee for Pure and Applied Chemistry :—
- | | | | | |
|-----------------------|----|----|----|------------------------------------|
| Prof. S. S. Bhatnagar | .. | .. | .. | Lahore. |
| Mr. B. C. Burt | .. | .. | .. | Delhi. |
| Prof. N. R. Dhar | .. | .. | .. | Allahabad. |
| Sir M. O. Forster | .. | .. | .. | Mysore. |
| Prof. H. K. Sen | .. | .. | .. | Calcutta. |
| Prof. P. C. Mitter | .. | .. | .. | Calcutta (Secretary and Convener). |
- (4) 'Engineering Sciences' Committee for Engineering, Metallurgy, Electro-technics and kindred subjects :—
- | | | | | |
|----------------------------|----|----|----|------------------------------------|
| Mr. W. C. Ash | .. | .. | .. | Calcutta. |
| Principal F. N. Mowdawalla | .. | .. | .. | Bangalore. |
| Dr. D. Penman | .. | .. | .. | Dhanbad. |
| Mr. H. P. Philpot | .. | .. | .. | Benares. |
| Mr. E. A. Wraight | .. | .. | .. | Jamshedpur. |
| Dr. E. Spencer | .. | .. | .. | Calcutta (Secretary and Convener). |
- (5) 'Geology' Committee for Geology, Palæontology, Mineralogy and Geography :—
- | | | | | |
|--------------------|----|----|----|------------------------------------|
| Dr. L. L. Fermor | .. | .. | .. | Calcutta. |
| Dr. C. S. Fox | .. | .. | .. | Calcutta. |
| Prof. K. K. Mathur | .. | .. | .. | Benares. |
| Mr. E. S. Pinfold | .. | .. | .. | Rawalpindi. |
| Mr. B. Rama Rao | .. | .. | .. | Bangalore. |
| Dr. A. M. Heron | .. | .. | .. | Calcutta (Secretary and Convener). |

- (6) 'Botany' Committee for Pure and Applied Botany, Forestry and Agronomy :—
- | | | | | |
|------------------------|----|----|----|---------------------------------------|
| Prof. S. L. Ajrekar | .. | .. | .. | Ahmedabad. |
| Mr. H. G. Champion | .. | .. | .. | Dehra Dun. |
| Prof. M. O. P. Iyengar | .. | .. | .. | Madras. |
| Prof. P. K. Parija | .. | .. | .. | Cuttack. |
| Dr. F. J. F. Shaw | .. | .. | .. | Delhi. |
| Mr. C. C. Calder | .. | .. | .. | Calcutta (Secretary
and Convener). |
- (7) 'Zoology' Committee for Pure and Applied Zoology and Anthropology including Ethnology :—
- | | | | | |
|---------------------------|----|----|----|---------------------------------------|
| Dr. K. N. Bahl | .. | .. | .. | Lucknow. |
| Dr. C. F. C. Beeson | .. | .. | .. | Dehra Dun. |
| Dr. F. H. Gravely | .. | .. | .. | Madras. |
| Principal M. Afzal Husain | .. | .. | .. | Lyallpur (Punjab). |
| Dr. J. H. Hutton | .. | .. | .. | Shillong. |
| Dr. B. Prashad | .. | .. | .. | Calcutta (Secretary
and Convener). |
- (8) 'Physiology' Committee for Animal Physiology and Medical subjects :—
- | | | | | |
|---------------------------------|----|----|----|---------------------------------------|
| Lt.-Col. O. A. R. Berkeley-Hill | .. | .. | .. | Ranchi. |
| Sir U. N. Brahmachari | .. | .. | .. | Calcutta. |
| Lt.-Col. R. N. Chopra | .. | .. | .. | Calcutta. |
| Prof. P. K. Koshy | .. | .. | .. | Madras. |
| Lt.-Col. R. Row | .. | .. | .. | Bombay. |
| Lt.-Col. A. D. Stewart | .. | .. | .. | Calcutta. |
| Lt.-Col. J. Taylor | .. | .. | .. | Kasauli. |
| Mr. F. Ware | .. | .. | .. | Muktesar. |
| Lt.-Col. R. Knowles | .. | .. | .. | Calcutta (Secretary
and Convener). |

EDITORIAL COMMITTEE FOR THE 'INDIAN SCIENCE ABSTRACTS'.

Dr. B. Prashad	General Editor.
Prof. N. R. Sen	} Associate Editors.
Prof. M. N. Saha	..	..	..	..
Prof. J. C. Ghosh	..	..	..	..
Dr. E. Spencer	..	..	..	..
Dr. A. M. Heron	..	..	..	..
Prof. P. K. Parija	..	..	..	..
Lt.-Col. J. Taylor	..	..	..	..
Mr. F. Ware	..	..	..	..

APPENDIX VI.

BUDGET ESTIMATE FOR 1935-1936.

<i>Ordinary Receipts.</i>		Rs. A. P.	<i>Ordinary Payments.</i>		Rs. A. P.
Subscription ..	5,200	0 0	Salaries ..	2,100	0 0
Interest ..	700	0 0	Publications ..	5,000	0 0
Contributions towards Publication of Indian Science Abstracts ..	1,000	0 0	Contributions to Science Academies ..	1,000	0 0
Sale of Publications ..	100	0 0	Furniture ..	400	0 0
Contribution from General Funds ..	2,400	0 0	Postage ..	500	0 0
			Stationery ..	200	0 0
			Auditor's Fee ..	50	0 0
			Miscellaneous ..	150	0 0
TOTAL ..	9,400	0 0	TOTAL ..	9,400	0 0
<i>Extraordinary Receipts.</i>			<i>Extraordinary Payments.</i>		
Admission Fee ..	320	0 0	Funding of Admission Fee	320	0 0

