

Report to the General Committee of the Indian Science Congress Association of the Academy Committee appointed on the 3rd January, 1934*

A detailed history of the movement for the foundation of an Indian Academy of Sciences was given a year ago in a pamphlet prepared by Prof. S. P. Agharkar, one of the General Secretaries of the Indian Science Congress Association. Copies of this pamphlet were distributed at the last Bombay session of the Indian Science Congress to all the members of the General Committee before the special meeting held on the 3rd January, 1934, to consider the proposals for the foundation of an Indian Academy of Sciences. It appears, nevertheless, necessary to include in the present report a short summary explaining the genesis of the movement and the further evolution thereof, resulting in the appointment of a Committee (hereinafter referred to as the 'Academy Committee') to frame a constitution for the proposed Academy.

In the autumn of 1911 Prof. P. S. MacMahon of Canning College, Lucknow, and Prof. J. L. Simonsen of the Presidency College, Madras, brought forward a proposal for the foundation of an Indian Association for the Advancement of Science. Its object and scope 'were stated to be similar to those of the British Association for the Advancement of Science, namely, to give a stronger impulse and a more systematic direction to scientific enquiry, to promote the intercourse of Societies and individuals interested in science in different parts of the country, to obtain a more general attention to the objects of Pure and Applied Science, and the removal of any disadvantages of a public kind which may impede its progress'. The proposal was widely circulated among persons of culture in this country and the scholars approached were not slow to recognise the desirability of the co-ordination of scientific work and of co-operation amongst scientific workers. As a result the first session of the Indian Science Congress was held in Calcutta on the 15th to 17th January, 1914, with the late Hon'ble Justice Sir Ashutosh Mukherjee as its first President.

The proposals for the formation of an Indian Academy of Sciences have followed lines similar to those that led to the foundation of its sponsor, the Indian Science Congress Association.

Towards the end of 1930, the Government of India addressed a letter to the Provincial Governments, Scientific Departments, Learned Societies, Universities and the Indian Science Congress on the subject of the formation in India of a National Research Council and National Committees to

* This report was adopted by the General Committee of the Indian Science Congress Association at the meeting held on the 4th January, 1935.

adhere to and co-operate with the International Research Council and certain affiliated unions respectively. Replies embodying detailed proposals were sent to the Government of India by various bodies, but apparently the financial stringency which supervened soon after prevented any action being taken thereon.

In 1930, also, the scientists of the United Provinces of Agra and Oudh formed themselves into a Provincial Academy, with the idea of affiliating themselves to an All-India Academy when formed.

In May 1933 an editorial was published in *Current Science* * giving an outline of the views of its editors regarding the formation of an Indian Academy of Sciences. In September of the same year, the Board of Editorial Co-operators of *Current Science* issued a questionnaire on the subject and invited the opinions of the scientists of India. The scientists of Calcutta who jointly considered the questionnaire in several meetings adopted certain resolutions, and in view of the accepted position of the Indian Science Congress Association as an All-India scientific body made a formal request that all proposals regarding the proposed Academy should be included in the agenda of the General Committee of the Indian Science Congress for discussion at its Bombay session.

In his Presidential Address at the Bombay session of the Indian Science Congress, Prof. Meghnad Saha referred in detail to the proposal to form an Indian Academy of Sciences and suggested a scheme for its formation on the model of the Royal Society of London. The whole question was thereafter discussed in a special meeting of the General Committee of the Indian Science Congress Association on the 3rd of January, 1934, when the following resolutions were passed :—

Resolution 1.—The General Committee of the Indian Science Congress thank the Editorial Board of *Current Science* for the excellent spade-work in sounding scientific opinion in India on the desirability or otherwise of having an Indian Academy of Sciences and proposing to hand over to the General Committee of the Indian Science Congress the material hitherto collected.

Resolution 2.—In the opinion of the General Committee of the Indian Science Congress, the principal purposes for which an Indian Academy of Sciences is desirable are :—

- (i) To act as a co-ordinating body between scientific societies in India, institutions, and Government scientific departments and services.
- (ii) To act as a body of scientists of eminence to promote and safeguard the interests of scientists in India and also to act as a National Research Council.
- (iii) To publish a *Comptes rendus* of papers read before the Academy and also *Memoirs and Transactions*.
- (iv) To promote and maintain a liaison between men of science and men of letters.

* The journal *Current Science* was itself founded as a result of resolutions passed at a special meeting held during the session of the Indian Science Congress Association in Bangalore in January 1931. This journal is regarded as representative of the interests of the whole of India, and in view of its parentage has been in receipt of an annual donation from the funds of the Indian Science Congress Association.

- (v) To secure and manage funds and endowments for scientific research.
- (vi) To do such other things as may be necessary for the promotion of sciences in India.

Resolution 3.—Resolved that a committee be appointed to meet at an early date in Calcutta, with the object of drafting a constitution to be laid before the next meeting of the Indian Science Congress, and to take necessary steps for bringing the Academy into existence. The date suggested for the first meeting of the Committee is the 18th January to 21st January, 1934. (Date changed to 11th and 12th February, 1934.)

Resolution 4.—The Committee shall be constituted as follows :—

- I. The outgoing and incoming Presidents of the Indian Science Congress.
- II. One representative each of the following Societies :—
 - (i) Asiatic Society of Bengal.
 - (ii) Indian Chemical Society.
 - (iii) Indian Botanical Society.
 - (iv) Mining and Geological Institute, jointly with the Geological, Mining, and Metallurgical Society.
 - (v) Indian Mathematical Society
 - (vi) Calcutta Mathematical Society
 - (vii) Benares Mathematical Society
 } *One joint representative.*
- (viii) United Provinces Academy of Sciences.
- (ix) Indian Association for the Cultivation of Science, Calcutta.
- III. Director or a representative nominated by the following All-India Government Departments :—
 - (i) Botanical Survey of India.
 - (ii) Geological Survey of India.
 - (iii) Zoological Survey of India.
 - (iv) Survey of India.
 - (v) Meteorological Department.
 - (vi) Imperial Institute of Agricultural Research.
 - (vii) Imperial Forest Research Institute
 - (viii) Indian Research Fund Association.
 - (ix) Imperial Institute of Veterinary Research.
 } *One joint representative.*
- IV. Director or a representative of the Indian Institute of Science, Bangalore.
- V. The following five members to represent the General Committee of the Indian Science Congress :—

Prof. S. N. Bose	..	..	..	..	Dacca.
Mr. D. N. Wadia	..	..	..	..	Calcutta.
Dr. S. K. Mukerji	..	..	..	..	Lucknow.
Dr. K. G. Naik	..	..	..	..	Baroda.
Dr. H. K. Sen	..	..	..	..	Calcutta.
- VI. One representative of the Editorial Board, *Current Science*, Bangalore.

The Committee has power to co-opt additional members as required.

Resolution 5.—Prof. Meghnad Saha, F.R.S., and Prof. S. P. Agharkar be appointed Organising Secretaries.

The Academy Committee formed in accordance with these resolutions consisted of the following :—

- I. Dr. J. H. Hutton President, 22nd Ind. Sc. Congress, for 1934-35.
- Prof. M. N. Saha President, 21st Ind. Sc. Congress, for 1933-34.

II. Representatives of the following Societies :—

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| (i) Asiatic Society of Bengal | Dr. L. L. Fermor. |
| (ii) Indian Chemical Society | Prof. J. N. Mukherji. |
| (iii) Indian Botanical Society | Prof. P. Parija. |
| (iv) Mining and Geological Institute and
the Mining, Geological and Metallur-
gical Society. | Dr. M. S. Krishnan. |
| (v) Indian Mathematical Society | } Dr. Ganesh Prasad. |
| (vi) Benares Mathematical Society | |
| (vii) Calcutta Mathematical Society | |
| (viii) U.P. Academy of Sciences | Prof. A. C. Banerji. |
| (ix) Indian Association for the Cultivation
of Science. | Dr. K. S. Krishnan. |

III. Representatives of the All-India Government Departments :—

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| (i) Botanical Survey of India | Mr. C. C. Calder. |
| (ii) Geological Survey of India | Dr. A. M. Heron. |
| (iii) Zoological Survey of India | Dr. Bains Prashad. |
| (iv) Survey of India | Brigadier H. J.
Couchman. |
| (v) Meteorological Department | Dr. C. W. B. Normand. |
| (vi) Imperial Institute of Agricultural Research | } Mr. L. N. Seaman. |
| (vii) Imperial Forest Research Institute | |
| (viii) Indian Research Fund Association | Lt.-Col. A. D. Stewart. |
| (ix) Imperial Institute of Veterinary Research .. | No representative was
nominated. |

IV. Director or a representative of the Indian Institute of Science, Bangalore :—
Sir C. V. Raman.

V. General Committee of the Indian Science Congress Association :—

- Prof. S. N. Bose.
Mr. D. N. Wadia.
Dr. S. K. Mukerji (since deceased).
Dr. K. G. Naik.
Dr. H. K. Sen.

VI. Representative of the Editorial Board of *Current Science* :—

Prof. C. R. Narayan Rao.

VII. Organising Secretaries :—

- Prof. M. N. Saha.
Prof. S. P. Agharkar.

The following persons were co-opted members of the Academy Committee from time to time :—

I. Representatives of the following Societies were co-opted at the meeting held on the 11th and 12th February, 1934 :—

Indian Mathematical Society : Prof. Belekar (Nagpur), 1934.

South Indian Science Association : Dr. Subba Rao, Bangalore; resigned on 12-4-34. Prof. Venkatesachar was nominated in his place on 15-9-34.

Society of Biological Chemists, India : Dr. Gilbert Fowler, Bangalore.

Institution of Chemists, India : Dr. E. Spencer, Calcutta.

Institution of Engineers, India : Mr. A. C. Austin, Calcutta.

The following were co-opted in their personal capacities :—

Mr. M. Afzal Husain, Lyallpur.

Dr. Muzaffaruddin Qureishi, Hyderabad, Deccan.

II. The following were co-opted as members at the 2nd meeting of the Academy Committee held on the 14th and 15th April, 1934 :—

Sr. T. Vijayaraghavacharya, Kt., Delhi-Simla.

Prof. S. S. Bhatnagar.

Dr. S. Tirumurti, Vizagapatam.

Principal C. A. King, Benares.

Dr. R. Row, Bombay.

III. Mr. B. C. Burt, New Delhi, was co-opted member at the 3rd meeting of the Academy Committee held on 28th and 29th June, 1934.

IV. Prof. B. Sahni, Lucknow, was co-opted a member at the 6th meeting of the Academy Committee, held on 3rd November, 1934.

The Committee regret the loss of Dr. S. K. Mukerji, who died on the 5th August, 1934.

MEETINGS OF THE ACADEMY COMMITTEE were held as follows :—

1st Meeting at Calcutta on the 11th and 12th February, 1934.

2nd Meeting at Calcutta on the 14th and 15th April, 1934.

Emergency Meeting of the Calcutta Members on the 8th May, 1934.

3rd Meeting at Simla on the 28th and 29th June, 1934.

4th ,, at Calcutta on 11th August, 1934.

5th ,, ,, on 15th and 16th September, 1934.

6th ,, ,, on 3rd and 4th November, 1934.

7th ,, ,, on 24th November, 1934.

At the first meeting of the Committee the question of procedure was first considered.

In this connection it was pointed out that Resolution 2 of the General Committee of the Indian Science Congress described in general the purposes for which the Academy was to be founded and in a way indicated the type of constitution to be devised.

It was also pointed out that according to the analysis of the replies received to the questionnaire on the subject of an Academy of Science for India, which had been sent to the Members of the Board of Editorial Co-operation of *Current Science*, the majority of the scientists who expressed their view on the subject, 'approved of the idea of seeking State aid to start an entirely new organisation which would be run more or less along the lines of the Royal Society of London, the details of the constitution as also the process of initiation of the Academy to be decided by a Committee to be appointed for the purpose'.

In view of the above, it was resolved that the proposed Academy should have only one class of Members to be called 'Fellows', and that their number should be restricted.

It was further resolved first to fix the number of Foundation Fellows for the proposed Academy and their distribution among the various science groups and then to consider the constitution. It was thought further that in any case the constitution would have to be approved by the proposed Foundation Fellows before it could be put forward before the General Committee of the Indian Science Congress Association for endorsement.

It was decided to fix the number of Foundation Fellows at one hundred, distributed among the various sciences, as follows :—

1.	<i>Mathematics and Astronomy</i>	..	..	..	9
2.	<i>Physics and Meteorology</i>	..	..	..	15
3.	<i>Chemistry including Metallurgy</i>	..	..	..	16
4.	<i>Medical and Veterinary Research including Experimental Psychology</i>	..	..	..	16
5.	<i>Zoology and Anthropology</i>	..	..	..	8
6.	<i>Botany</i>	..	..	..	8
7.	<i>Agriculture and Forest Research</i>	..	..	..	8
8.	<i>Geology and Geodesy</i>	..	..	..	8
9.	<i>Engineering</i>	..	..	..	6
10.	<i>Unattached</i>	..	..	..	6
				TOTAL	100

It was further resolved that though the initial membership of the Academy should be one hundred, 25 persons be elected annually to be Fellows in the first two years, and ten persons annually thereafter.

The procedure for the nomination of the Foundation Fellows for the various science groups was then considered and it was resolved that Sub-Committees for the different subjects be appointed consisting of the members mentioned below and that the Sub-Committees be requested to nominate the required number of Fellows up to the quota agreed upon.

It was resolved to give the following instructions to the Members of the Sub-Committees :—

‘Persons nominated as Members of the Sub-Committee must include themselves in the list, must include all past Presidents of the Indian Science Congress belonging to that Section, and then choose from the past Sectional Presidents of the Indian Science Congress and any other eminent scientists who have not been Sectional Presidents.’

The list of Members of the Sub-Committees is given below :—

<i>Physics and Meteorology</i>	..	Sir C. V. Raman, Prof. M. N. Saha, and Dr. C. W. B. Normand.
<i>Chemistry</i>	..	Sir P. C. Ray, Sir M. O. Forster, and Prof. J. C. Ghosh.
<i>Geology</i>	..	Dr. L. L. Fermor, Mr. D. N. Wadia, and Mr. Pinfold.
<i>Botany</i>	..	Prof. S. R. Kashyap, Prof. B. Sahni, Prof. Agharkar, Prof. Parija, and Prof. M. O. P. Iyengar.
<i>Zoology and Anthropology</i>	..	Dr. B. Prashad, Dr. J. H. Hutton, Dr. G. Matthai, and Dr. B. S. Guha.
<i>Engineering</i>	..	Sir M. Visweshwaraya, Mr. Ash, and Dr. Penman.

<i>Agriculture and Forest Research.</i>	Mr. B. C. Burt, Mr. H. G. Champion, and R.B. T. S. Venkataraman.
<i>Medical and Veterinary Research and Psychology.</i>	Lt.-Col. J. Taylor, Lt.-Col. R. N. Chopra, Sir U. N. Brahmachari, and Mr. F. Ware.
<i>Mathematics and Astronomy</i>	Prof. Ganesh Prasad, Brigadier H. J. Couchman, Prof. N. R. Sen.

[At the 6th Meeting of the Academy Committee the Sub-Committees for Zoology and Anthropology and Engineering were reconstituted as follows :—

<i>Zoology and Anthropology</i>	Dr. B. Prashad, Dr. J. H. Hutton, Dr. G. Matthai, and R.B. L. K. Anantha Krishna Iyer.
<i>Engineering</i>	Dr. A. Jardine, Principal C. A. King, and Principal F. N. Mowdawalla.]

It was resolved to defer the consideration of the location of the Headquarters of the Academy to a later stage.

A part of the draft rules were considered and it was resolved to postpone consideration of the rest to the second meeting of the Committee to be held on the 14th and 15th April, 1934.

Before this second meeting of the Academy Committee, however, an unfortunate complication arose in the work of the Committee as a result of the Presidential Address of Sir C. V. Raman to a Conference of South Indian scientists at Bangalore on the 1st of April. In this address Sir C. V. Raman criticised adversely the work of the Academy Committee as revealed by the draft minutes of the first meeting, a copy of which had been sent to him as one of the members of the Committee. These minutes thus formed the basis of discussion in the Conference of South Indian scientists, which passed a number of resolutions thereon leading to a press controversy against the work of the Academy Committee. Subsequently Sir C. V. Raman and Dr. Subba Rao, who had been nominated as representatives on the Academy Committee of the Indian Institute of Science, Bangalore, and South Indian Science Association respectively, sent in their resignations of the membership of the Committee.

The second meeting of the Academy Committee was almost entirely devoted to a consideration of the situation thus created, and it was resolved to communicate to Sir C. V. Raman the Committee's observations on the resolutions of the Bangalore Conference, and to request him and Dr. Subba Rao to withdraw their resignations. It was also decided to issue a press communiqué to clarify the misunderstanding and give the scientific public an idea of the work of the Academy Committee. The Committee's observations were communicated to Sir C. V. Raman in a letter dated 16th of April, 1934, to which no reply has been received.

The registration of a society called 'The Indian Academy of Sciences' at Bangalore was announced in the press on the 30th of April, and a large number of scientists all over the country simultaneously received circular letters inviting

them to become Fellows of this Academy, which was stated to have been founded on 'federal lines'.

In view of the above situation an emergency meeting of the Calcutta members of the Academy Committee was held on the 8th of May, 1934, and a Sub-Committee consisting of Dr. B. Prashad, Dr. J. N. Mookherjee, Dr. M. S. Krishnan, and Prof. S. P. Agharkar, was appointed to draw up a statement explaining the work of the Committee and clarifying the situation in reference to the resolutions of the Bangalore Conference. Copies of this statement were sent to scientists all over India, so that it is unnecessary to include the statement in this report.

In a letter dated 16th June, 1934, to Dr. L. L. Fermor, Sir C. V. Raman proposed a scheme for the federation of the existing Academies of Sciences in India, viz. the Asiatic Society of Bengal, the U.P. Academy of Sciences, Allahabad, and the Indian Academy of Sciences, Bangalore, as an alternative to the Academy proposed to be created by the Indian Science Congress Association. This scheme was very carefully considered by the Academy Committee in its third meeting on 28th and 29th June, but the conclusion arrived at was that as the Academy Committee had received a definite mandate from a body representative of all Sciences in India, it was too late for the Committee to abandon the work which it had undertaken. It was decided, however, to remodel the scheme of the Committee for the proposed Academy on the basis of a federal and co-ordinating Academy, and the Committee's views were duly communicated to Sir C. V. Raman by Dr. Fermor in his reply. It was also decided to change the name of the proposed Academy to 'The National Academy of Sciences of India'. The functions of the proposed institution were explained in 'A Note on the Aims and Objects of a National Academy of Sciences of India', prepared by the Chairman and the Organising Secretaries of the Academy Committee in accordance with the discussions of the Committee on June 28th and 29th, 1934.

At the fourth meeting of the Academy Committee held on the 11th August, Sir C. V. Raman's reply to Dr. Fermor's letter was recorded, and various indirect proposals for a 'compromise' with Bangalore were considered. After careful consideration the Committee came to the conclusion that none of these schemes provided a satisfactory basis for agreement, as they involved the recognition of the Bangalore Academy as the central institution for India with its headquarters at Bangalore at least for the first 3 years. What the Committee desired was not a 'compromise' but the co-operation of all scientists in their individual capacity as also of all scientific organisations.

The fifth meeting of the Academy Committee was held on the 15th and 16th September in Calcutta. It was attended by Sir C. V. Raman, Prof. B. Venkatesachar, and Prof. C. R. Narayan Rao, who came to Calcutta to discuss the possibility of agreement between the Academy Committee and the Indian Academy of Sciences, Bangalore. At this meeting all points of view were fully discussed and four resolutions were adopted unanimously:—

(1) That the name of the proposed National Academy should be changed to 'The National Institute of Sciences of India'.

(2) Publications of the National Institute should include :—

- (i) A summary of proceedings or papers read before all co-operating Academies of Science in India ;
- (ii) Such memoirs as may be considered necessary ; and
- (iii) Annual summary of progress of science in India.

(3) (a) The Indian Academy of Sciences, Bangalore, would not promote the formation of branches of the Academy, but could form local centres of its own members. This would apply *mutatis mutandis* to all other co-operating Academies.

(b) The proposed National Institute would not form branches in other parts of India, but would be prepared to co-operate not only with the 3 existing Academies, but also with such other Academies of sufficient status as may be formed in other parts of India.

(4) The agreement was to be subject to confirmation by the Foundation Fellows of the proposed National Institute to whom invitations had already been issued.

In addition it had been agreed that the functions of the National Institute were also to include :—

- (1) The organisation of symposia and general discussions.
- (2) The distribution of annual grants for special purposes not provided for in departmental programmes.

Sir C. V. Raman also withdrew his resignation and rejoined the Academy Committee.

At the sixth meeting of the Academy Committee held on the 3rd and 4th of November at Calcutta, the views of the Foundation Fellows on the revised scheme involving the change of the name of the institution, were considered. The replies of the Foundation Fellows who had expressed their views in response to the invitation of the Academy Committee, showed that 21 approved of the change, while 20 were against it. Further the consensus of opinion amongst the members of the Academy Committee present was that the spirit of the September agreement had not been observed by Sir C. V. Raman ; it was, therefore, decided to clear up issues by officially addressing the Secretary of the Indian Academy of Sciences, Bangalore. It was requested that a reply to this letter should be sent in time for consideration at the next meeting of the Academy Committee on the 24th November and that certain changes that were rendered necessary by the spirit of the agreement of the 16th September, should be made in the Memorandum of Association and Constitution of the Indian Academy of Sciences, Bangalore.

The seventh meeting of the Academy Committee was held on the 2nd of November. At this meeting Sir C. V. Raman, Prof. B. Venkatesachari and Prof. C. R. Narayan Rao were present both as members of the Academy.

Committee and as representing the views of the Indian Academy of Sciences, Bangalore. After a long discussion the representatives of the Bangalore Academy agreed to propose for acceptance by their Council a number of changes in their original Memorandum of Association and they also reiterated their pledge of observing the terms of the September agreement both in letter and in spirit.

The differences between the proposed National Institute of Sciences of India and the Indian Academy of Sciences, Bangalore, having thus been satisfactorily composed on the basis of co-operation between the various bodies, the members of the Academy Committee present at this meeting (17 in number) found themselves able unanimously to agree to adhere to the name of 'National Institute of Sciences of India' and to recommend this both to the Foundation Fellows and to the General Committee of the Indian Science Congress Association for their final acceptance.

The members of the General Committee of the Indian Science Congress Association will at this point ask what is the final position now that agreement has been obtained. The aims and objects of the proposed National Academy of Sciences of India were described in a note prepared after the Academy Committee meeting of the 28th and 29th June. As a result of the September agreement, this note was remodelled to suit the changed situation, and a copy of the remodelled note is attached to this report as Appendix. The only important change is the substitution of the word 'Institute' for 'Academy', the other changes being purely verbal, and on the whole the Academy Committee consider that the term 'Institute' is more suitable than 'Academy' in view of the co-ordinating position it expects to occupy *vis-a-vis* the three existing bodies of Academy rank, namely the Asiatic Society of Bengal, the U.P. Academy of Sciences, and the Indian Academy of Sciences of Bangalore.

At the meeting of the 24th November it was resolved also to authorise the Organising Secretaries to print and circulate to the Foundation Fellows the draft rules that had been framed. A copy of these draft rules is appended to this statement, and it is proposed to treat them as provisional rules for the first year of the National Institute's existence and to pass them finally at the first Annual General Meeting of the Institute. The rules do not prescribe any place as the headquarters of the National Institute, and on this point it is necessary to mention that at Sir C. V. Raman's suggestion the headquarters of the National Institute have been provisionally fixed at Calcutta. In this connection it is also necessary to add that the Asiatic Society of Bengal is prepared to offer accommodation for the offices of the Institute, if so requested. The Committee agreed that the present situation clearly indicates that a commencement should be made in Calcutta and that the first Council should, therefore, be formed on this basis. Nevertheless, since according to the Note on the Aims and Objects of the Institute circulated to the Foundation Fellows the vote of the Fellows is to

be taken on the location of the headquarters of the Institute, it is proposed, during the first year, to invite the opinion of the Foundation Fellows on this point.

In the draft rules provision is made for a Council of 25, so as to allot enough places to headquarters to ensure a working quorum being always obtainable, as well as to allot one place each to as many of the centres of scientific research as possible. It has also been decided to provide for an additional Vice-President and an additional Member of Council to be appointed by each of the Academies co-operating with the National Institute. Further, in view of the importance of the Indian Science Congress Association and its historical relationship to the new National Institute of Sciences, provision has also been made for an additional Vice-President and an additional Member of Council to represent the Indian Science Congress Association. In view of the above, the following provisional Council of the National Institute has been selected for recommendation to the Foundation Fellows for their approval :—

President :—

Dr. L. L. Fermor, O.B.E., D.Sc. (Lond.), A.R.S.M., M.Inst.M.M., F.G.S., F.R.S., F.A.S.B., Director, Geological Survey of India, Indian Museum, Calcutta.

Vice-Presidents :—

Brigadier H. J. Couchman, D.S.O., M.C., Surveyor-General of India, Calcutta.

Rai Bahadur Prof. S. R. Kashyap, B.A., M.Sc., D.Sc., I.E.S., F.A.S.B., Professor of Botany, Government College, Lahore (since deceased).

Treasurer :—

Dr. S. L. Hora, D.Sc. (Punjab et Edin.), F.L.S., F.Z.S., F.R.S.E., F.A.S.B., Superintendent, Zoological Survey of India, Indian Museum, Calcutta.

Foreign Secretary :—

Prof. M. N. Saha, D.Sc., F.R.S., F.A.S.B., Professor of Physics, Allahabad University, Allahabad.

Secretaries :—

Prof. S. P. Agharkar, M.A. (Bom.), Ph.D. (Berol.), F.L.S. (London), Ghose Professor of Botany, Calcutta University, 35, Ballygunge Circular Road, Calcutta.

Dr. A. M. Heron, D.Sc., F.G.S., F.R.G.S., F.R.S.E., Superintendent, Geological Survey of India, Indian Museum, Calcutta.

Members of Council :—

Mr. M. Afzal Hussain, M.A., M.Sc., I.A.S. Principal, Punjab Agricultural College, Lyallpur, Punjab.

Dr. Bains Prashad, D.Sc., F.R.S.E., F.L.S., F.Z.S., F.A.S.B., Director, Zoological Survey of India, Indian Museum, Calcutta.

Mr. T. P. Bhaskara Shastri, M.A., F.R.A.S., Director, Nizamiah Observatory, Begumpet, Hyderabad, Deccan.

Prof. S. S. Bhatnagar, D.Sc., University Professor of Chemistry, Director, University Chemical Laboratories, Lahore.

Mr. B. C. Burt, C.I.E., M.B.E., B.Sc., I.A.S., Agricultural Expert, Imperial Council of Agricultural Research, New Delhi (and Simla).

Prof. Ganesh Prasad, M.A., D.Sc., Hardinge Professor of Higher Mathematics, Calcutta University, 2, Samavaya Mansions, Corporation Street, Calcutta.

- Prof. J. C. Ghosh, D.Sc., Head of the Department of Chemistry, University of Dacca, Ramna, Dacca.
- Dr. F. H. Gravely, D.Sc., F.A.S.B., Superintendent, Government Museum, Museum House, Egmore, Madras.
- Lt.-Col. R. Knowles, 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.
- Prof. K. S. Krishnan, D.Sc., Mahendralal Sircar Professor of Physics, Indian Association for the Cultivation of Science, 210, Bow Bazar Street, Calcutta.
- Prof. S. K. Mitra, D.Sc. (Cal. and Paris), Ghose Professor of Physics, Calcutta University, University College of Science, 92, Upper Circular Road, Calcutta.
- Prof. J. N. Mukerji, D.Sc. (London), F.C.S., Khaira Professor of Chemistry, University College of Science, 92, Upper Circular Road, Calcutta.
- Dr. C. W. B. Normand, M.A., D.Sc., Director-General of Observatories, Meteorological Office, Poona 5.
- Sir C. V. Raman, Kt., M.A., D.Sc., Ph.D., LL.D., F.R.S., F.A.S.B., N.L., Director, Indian Institute of Science, Bangalore.
- Prof. B. Sahni, M.A., Sc.D., D.Sc., F.G.S., F.A.S.B., Professor of Botany, Lucknow University, Lucknow.
- Lt.-Col. S. S. Sokhey, M.A., M.D., D.Sc., D.T.M. & H., I.M.S., Director, Haffkine Institute, Parel, Bombay.
- Lt.-Col. J. Taylor, D.S.O., M.D., D.P.H., I.M.S., Director, Central Research Institute, Kasauli (Simla Hills).
- Mr. C. G. Trevor, C.I.E., President, Imperial Forest Research Institute, Dehra Dun.
- Mr. F. Ware, F.R.C.V.S., I.V.S., Director, Imperial Institute of Veterinary Research, Muktesar.

This list does not, of course, contain the names of the additional Vice-Presidents and Members of Council as these have yet to be chosen by the nominating bodies.

In view of the concord that has now been established, the Academy Committee has decided to exclude from this report to the General Committee both the details of their deliberations and also of the unfortunate controversy with the Indian Academy of Sciences, Bangalore. The Committee has carried on its labours under very difficult and at times almost impossible circumstances and it hopes that the members of the General Committee of the Indian Science Congress will, after careful consideration of the report now presented, be in a position to endorse the work of its Committee, and accept its proposals for the foundation of the National Institute of Sciences of India.

CALCUTTA,
3rd December, 1934.

S. P. AGHARKAR,
M. N. SAHA,
Joint Organising Secretaries.