

NATIONAL INSTITUTE OF ADVANCED STUDIES
BANGALORE

Indian Institute of Science Campus
Bangalore

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NATIONAL INSTITUTE OF ADVANCED STUDIES

This is the age of scientific renaissance with explosions of information in all fields of knowledge. While one welcomes this and the new technologies it has given birth to, there is also a growing concern that there is a need to integrate this information and examine the new technologies in the historical, social, cultural, political and economic context of the increasingly complex societies in which the latter will take root. Further, one requires to take into account the values and the psychological propensities of those who will make use of this information. Are they well versed just in their respective field of specialisation or do they approach problems from a broader perspective? Unless all this is done, the very harbingers of human progress can spell its doom. It is this realisation which has inspired the creation of the National Institute of Advanced Studies.

This Institute (subsequently referred to as NIAS) is a Centre for higher learning with twin objectives. The first is to provide an atmosphere in which, through exchange of ideas, exposure to new knowledge in different areas, introduction to nation's socio-cultural heritage and understanding of the strengths as well as weaknesses of human personality, one could move towards that widening of mental horizons, which makes for more accurate and effective decision making. The other is to support and lead multi-disciplinary research on the borderlands of material sciences, social sciences and humanities; helping the researchers from different disciplines work together, understand each other's language and attack complex problems in a comprehensive fashion.

That there was a need for such a commingling of different disciplines was clear to Jamshetji Tata who in 1904, while gifting to the nation first ever Institute of Science and Technology, had clearly remarked that there should be a place for humanities in such an Institute. A reference to this philosophy was made again by Mr. J.R.D. Tata, who while speaking at the Platinum Jubilee of the Indian Institute of Science, said the following:

"It has been said that education is what makes a man what he is, the way he conducts himself, his interests, his values, his personality. The load of work imposed on young men and women pursuing advanced studies in our Institute is such that they have little time or opportunity to expose themselves to literature, the arts, drama, poetry, music, history, philosophy, which, though unconnected with their study or research work, are important elements in the make-up of a civilized, liberally educated person such as Jamshetji Tata had in mind.

Many of the thousands of young men and women who emerge from our Institute would, I think, appreciate the opportunities to nourish their minds and expand their horizon beyond their immediate course of study. If I am right, may I end my remarks with the suggestion that we consider introducing in the Institute wholly optional programmes of study or discussion in some of the subjects I have just mentioned, and thereby send out into the world better informed and more lively citizens who will, in turn, play a fuller part in making this great but impoverished country of ours a better place to live in?"

National Institute of Advanced Studies, initiated by the Sir Dorabji Tata Trust of which Mr. J.R.D. Tata is the Chairman, has gone further in crystallising the above philosophy, making integrated learning its very *raison d'être*.

History

While Mr. J.R.D. Tata had the first idea about 25 years ago, it passed through many discussions and elaboration by a number of distinguished scholars, industrialists and administrators before it took its final shape. It was presented as a concrete project at the request of the Sir Dorabji Tata Trust, by a committee consisting of the following:

| | |
|-------------------------|--|
| 1. Prof R.D. Choski | Trustee Sir Dorabji Tata Trust |
| 2. Dr. Satish Dhawan | Senior Adviser Indian Space Research Organisation. |
| 3. Mr. L.K. Jha | Former Chairman Economic Administration Reforms Commission and ex-Governor of Jammu and Kashmir. |
| 4. Prof. M.G.K. Menon | Member Planning Commission Govt of India. |
| 5. Prof. Philippe Olmer | Hon. Professor at the University of Paris Formerly, General Director of Higher Education Ministry of Education Paris. |
| 6. Dr. H.N. Sethna | Retired Principal Secretary to the Government of India and ex-Chairman, Atomic Energy Commission. |

The project for such an Institute was welcomed by the Prime Minister, Shri Rajiv Gandhi, who also initiated an enquiry with the officials concerned, regarding the possibility of finding a location for it in Delhi. However, the alternate locations available and offered did not meet the requirements of the new Institute. Subsequently, the Governor and the Chief Minister of West Bengal, when informed about the project, also offered a suitable location for it in the city of Calcutta. Finally, the Trustees of the Sir Dorabji Tata Trust and the Director-designate of the Institute, Dr. Raja Ramanna, came to the unanimous conclusion that the aims, ideals and objectives of the Institute could be most effectively achieved by its location in Bangalore in close proximity to the Indian Institute of Science.

The Institute was registered in Bangalore on the 20th of June, 1988 under the Karnataka Societies Registration Act. Dr. Raja Ramanna took over as the Director of the Institute in August 1987. Dr. R.L. Kapur joined as the first Professor on the Faculty in October 1988. The first formal activity of NIAS, i.e. a course of lectures to the senior administrators in Government and Industries was held in Jan-Feb. 1989.

It was in March 1989 that the Council of the Indian Institute of Science gave on license, 5 acres of land within the campus of the I.I.Sc for the NIAS buildings. The Visitor of the Indian Institute of Science, the President of India, gave his consent to this welcome gesture in December 1988. In September 1987, the Government of Karnataka had promised an interest - free loan of Rs. one and a half crores to construct the buildings.

The National Institute of Advanced Studies was formally inaugurated on January 16, 1989 by Mr. J.R.D. Tata.

The Administrative Structure

NIAS is an independent organisation registered under the Karnataka Societies Registration Act. It is financed by the Sir Dorabji Tata Trust and the Government of Karnataka.

There are three Authorities for the overall administration of the Institute. These are the Council of management (subsequently referred to as 'Council'), the Holding Trustees and the Academic Council.

The **Council** has the full powers and authority on overall management according to the Rules and Regulations of the Institute. It has the following members:

- a. Two nominees of the Sir Dorabji Tata Trust,
- b. Director of the Institute (Ex-Officio),
- c. Two nominees of the Government of India,
- d. One nominee of the Government of Karnataka,
- e. Director, Indian Institute of Science, and
- f. Not more than three persons to be co-opted by the above from time to time for a period of five years. No action of the Council shall be invalidated by the mere fact that co-option of the three members as provided above, had not been made.

All nominated members will hold the office for 5 years. Chairman is elected by the Council Members for a period of 3 years.

The **Academic Council** looks after the academic programmes and advises the Council on academic matters. It has the following members:

- a. The Director, who is the Chairman of the Academic Council;
- b. Members of the Faculty, that is to say, the Director and Professors and any other member of the academic staff of the Institute deemed to be a Faculty Member by the Council; and
- c. Not more than five experts in the related fields to be appointed by the Director.

The **Holding Trustees** review the overall functions of the Institute and have the following members:

- a. Chairman of the Council
- b. The nominee of the Sir Dorabji Tata Trust
- c. The nominee of the Government of Karnataka
- d. The Director of the Institute
- e. The Director of the Indian Institute of Science.

The **Director** is the Executive and Academic Head of the Institute. He is a member of all the three statutory bodies. He shall have the general control over the Institute and shall give effect to the decisions of the authorities of the Institute.

The Programmes of the Institute

As decided by the Academic Council and the Council of Management, the main programmes of the NIAS will be as follows:

1. To conduct 40-day residential courses for persons in senior positions from Government, Industries and Universities. In these courses, a galaxy of renowned scholars and experts from all over the country will acquaint the participants, not only with the new developments in various fields of knowledge but also put them in touch with nation's socio-cultural roots and its experiments towards becoming a modern state without parting with time-tested traditional values.

Besides taking part in the lectures and discussions, the participants will also make their own contributions through talks on subjects of their own interest, presenting critical reviews of selected books, taking part in panel discussions and carrying out specific projects.

The Government participants are expected to be the officers at the level of Joint Secretary and those from Industries will be from senior management cadre. One expects a very creative atmosphere with mature participants from different backgrounds interacting in and out of formal sessions.

During the residential course, the participants will be the guests of the Institute who will arrange their accommodation, food, entertainment and visits.

2. To conduct workshops on developmental policies of national importance. Experts will be called in to spend 8-10 days examining a given policy or a new idea, both in its concept as well as in the details of its application, looking into its successes and failures, the reasons for both and suggesting new directions: thus providing for our legislators and administrators the much needed information and expert opinion.

3. To conduct socially relevant multi-disciplinary research on the borderlands of science, social science and humanities.

4. To invite visiting faculty on long-term basis from six months to a year. During this period, the visitor could put finishing touches to his on-going research and also interact with the permanent faculty in planning and executing new or on-going research programmes.

5. To invite key administrators from the Government and Industries to come as Visiting Fellows for six months to a year. Here they would pursue any new developmental ideas they have, fill in the gaps in knowledge pertinent to their tasks, and test out their ideas with the permanent and Visiting Faculty. Some of these ideas could become foci for the national workshops mentioned in (2) above.

6. To publish books, monographs, periodicals and papers.

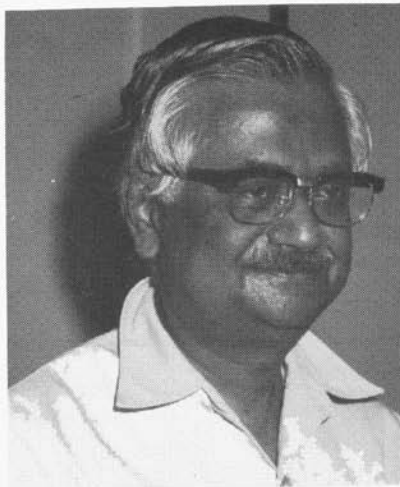
7. To co-operate with other Institutions and Organisations and contribute knowledge at inter-disciplinary level.

MEMBERS OF THE COUNCIL

| | | | | |
|----|---|----------|---|--------|
| .. | Mr. J.R.D. Tata Chairman Tata Sons Limited Bombay House Homi Mody Street Bombay - 400 001. | Chairman | Prof. C.N.R. Rao Director Indian Institute of Science Bangalore - 560 012. | Member |
| 2. | Mr. J.J. Bhabha Managing Trustee Sir Dorabji Tata Trust Bombay House Homi Mody Street Bombay - 400 001. | Member | 8. Dr. Raja Ramanna Director National Institute of Advanced Studies Indian Institute of Science Campus Bangalore - 560 012. | Member |
| 3. | Dr. Ashok S Ganguly Chairman Hindustan Lever Ltd Hindustan Lever House Backbay Reclamation Bombay - 400 020. | Member | 9. Mr. T.R. Satish Chandran Director Institute for Economic and Social Change Nagarabhavi Post Bangalore - 560 072. | Member |
| 4. | Mr. Keshub Mahindra Chairman Mahindra & Mahindra Ltd Gateway Building Apollo Bunder Bombay - 400 039. | Member | 10. Mr. Manish Bahl Secretary (Personnel) Ministry of Personnel, Public Grievances and Pensions Government of India New Delhi - 110 001. | Member |
| 5. | Prof. M.G.K. Menon Scientific Adviser to Prime Minister & Member, Planning Commission (Science) Government of India Yojana Bhavan New Delhi - 411 001. | Member | 11. Mr. B.N. Yugandhar Director Lal Bahadur Shastri Academy of Administration Government of India Mussoorie - 248 179 (U.P.) | Member |
| 6. | Dr. Francis A Menezes Director Tata Management Training Centre 1, Mangaldas Road Pune - 411 001. | Member | | |

MEMBERS OF THE ACADEMIC COUNCIL

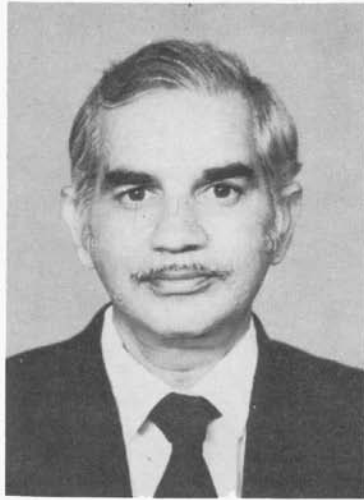
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|----|--|------------------------|
| 1 | Dr. Raja Ramanna Director National Institute of Advanced Studies Indian Institute of Science Campus Bangalore - 560 012. | Chairman |
| 2. | Shri S.T. Baskaran Postmaster-General Office of the Chief PMG Bangalore - 560 001. | Member |
| 3. | Prof. Andre Beteille Professor of Sociology Department of Sociology Delhi School of Economics University of Delhi Delhi - 110 007. | Member |
| 4. | Shri K.A. Chandrasekaran Joint Secretary (Training) Department of Personnel and Training Government of India New Delhi - 110 001. | Member |
| 5. | Prof R.L. Kapur National Institute of Advanced Studies Indian Institute of Science Campus Bangalore - 560 012. | Member (Ex-Officio) |
| 6. | Prof. N. Mukunda Chairman Division of Physical & Mathematical Sciences Indian Institute of Science Bangalore - 560 012. | Member |
| 7. | Prof. K. Subrahmanyam Nehru Fellow The Institute for Defence Studies and Analyses Sapru House Barakhamba Road New Delhi - 110 001. | Member |



THE FACULTY

DR. RAJA RAMANNA is the Director of the Institute. A Ph.D. from London University and awarded the D.Sc (*Honoris Causa*) by many others, he has formerly been Director, Bhabha Atomic Research Centre, Bombay (1972-1978) and (1981-83); Scientific Adviser to the Minister of Defence, Government of India; Director General, Defence Research and Development Organisation; and Secretary for Defence Research (1978-81); Chairman, Atomic Energy Commission and Secretary to the Government of India, Department of Atomic Energy (1983-87). He has also been Chairman, Board of Governors, Indian Institute of Technology, Bombay (1972-78) and is, currently, the Chairman of the Governing Council of the Indian Institute of Science, Bangalore. He is a Fellow of the Indian Academy of Sciences and the Indian National Science Academy and has received various national awards including Shanti Swarup Bhatnagar Award (1963); Padma Shree (1968); Padma Bhushan (1973); and Padma Vibhushan (1975).

Dr. Ramanna also brings to the Institute an abiding interest in Arts and Philosophy. He has a deep knowledge of Music both Indian and Western and is an accomplished Pianist, having performed to many a distinguished audience in various parts of the world.



DR. R.L. KAPUR is the first to join the permanent Faculty of the Institute. He is a Psychiatrist with a Ph.D from the University of Edinburgh. Formerly, he has been the Professor of Community Psychiatry and Head, Department of Psychiatry, National Institute of Mental Health and Neuro Sciences (NIMHANS), Bangalore (1975-83); Visiting Professor, Centre for Theoretical Studies, Indian Institute of Science, Bangalore (1983-89); Visiting Professor, School of Medicine as well as the Divinity School, Harvard University, U.S.A. (1985-86). He has also been a consultant to the World Health Organisation. He has received various awards including the Medical Council of India Award for Community Research. He is a Fellow of the Indian Academy of Sciences, the Indian Academy of Medical Sciences and the Royal College of Psychiatrists, U.K.

His research interests include Cross-cultural Psychiatry and Psychological concepts in Ancient Indian Philosophy. He has researched on Yoga, having taken an Indian Council of Medical Research sabbatical in 1981-82 to study under a Guru.

Report on the First NIAS Course for Senior Administrators in Government and Industry

A. Aim of the Course

The first course, designed by the National Institute of Advanced Studies to acquaint the senior administrators both from the Government and Industries with the latest advances in knowledge as well as to remind them of their socio-cultural roots, was conducted at the Tata Management Training Centre, Pune from 16th January to 18th February 1989 (total duration : 5 weeks).

The course did not attempt transfer of any new skills; nor did it aim to provide any information directly pertinent to the participant's current work assignment. Instead, the focus was on the widening of mental horizons in such a manner as would improve the officer's decision-making capacity and give him or her a fresh, broader perspective from which to attack the problems in course of his or her work. It was understood that such a change comes slowly and in a subtle manner and can be gauged only through examination of subjective satisfaction immediately and long-term performance in the long run.

B. Course Formulation

A variety of subjects, from the material sciences, social sciences and the humanities were included in the course. The faculty was carefully chosen, keeping in mind the lecturer's proven scholarship and communication abilities. Each lecturer was told about the overall purpose of the course and then asked to talk about his subject in five half day sessions. The choice of topics was entirely left to each lecturer's discretion. Besides the exposition of some major themes, separate individual lectures on some significant topics were also included.

Besides the lectures, some field visits to scientific organisations as well as some major industries were also organised. A highlight of the course was a visit to the National Centre for the Performing Arts, Bombay, where the participants were treated to a lecture, a tour of the Centre and a play in the evening.

C. The Participants

There were seventeen participants from the Government and eleven from the Industries. The list of participants is given on page 20. The Government participants were selected by the Department of Personnel and Training, Government of India, and those from the private and public sectors were deputed by the individual companies in response to communications sent by the Chairman of the Council and the Director NIAS.

The average age of the participants was as follows:
 Government candidates : 48.7 years.
 Industries candidates : 41.3 years.

D. The Inauguration

There was a brief inauguration ceremony in which Mr. J.R.D. Tata, Chairman of the Council, NIAS, spoke about the history of the Institute, the inspiration from similar institutes of excellence in France, the contribution of various distinguished scholars and experts who had met in various committees to elaborate on the original theme and finally the concretisation of the objectives when the institute was registered under the Karnataka Societies Registration Act on June 20, 1988. Mr. Tata reminded the audience of the desire of Shri Jamshetji Tata to have material sciences and humanities flourish under the same roof and its realisation now, with NIAS coming up on the campus of the Indian Institute of Science.

The Director, Dr. Raja Ramanna, welcoming the participants and the distinguished guests, explained the overall aim of bridging the gap between sciences and humanities. He also gave a description of the course.

E. The Conduct of the Course

The main method of teaching was a lecture followed by discussions. While each lecture lasted 1-1 1/2 hours, the discussions often went on for 2 to 2 1/2 hours. It was heartwarming to see that everyone participated in discussions. Many participants continued with discussions afterwards and it was common to see small groups meeting the faculty members later in the evening.

Most teachers used audio visual aids like overhead projector and slides. In the Psychology course, there was an exercise in which the participants assessed their own personality and also a session in which Dr. Kapur took the participants through YOGA-NIDRA.

About 7-10 days after the beginning of the course, the participants had a meeting with the NIAS Director and faculty in which, among other things, they suggested that the participants should give short talks about their own work. This was organised. Half-hour presentations were made by ten participants and were greatly appreciated.

The participants were taken for several visits which were vastly enjoyed. In the visits, there was a judicious mixture of science establishments, industries and entertainment.

In the T.M.T.C. there were facilities available for croquet, tennis, badminton and table tennis and these were well utilised by the participants. While not available initially, arrangements were later made to provide T.V. and video facilities during week-ends.



*Shri J.R.D. Tata signing the Golden Book
at the inaugural ceremony.*



Participants of the first NIAS course with the Director.



Prof. R.L.Kapur, Dr. Raja Ramanna, Shri J.R.D. Tata, and Shri Jamshed Bhabha at the inaugural ceremony.



The Director, Dr. Raja Ramanna and Prof. Romila Thapar with the participants.



The participants in an attentive mood.

Participants enjoying dinner time conversation with Prof. Narasimhan.



The participants enjoying the 'End of the Course' celebration with Dr. Raja Ramanna.

Mrs. Krishna Singh presenting the memento of participants' appreciation to Dr. Raja Ramanna.



F. Evaluation of the Course

Since this was the first course of its kind, special care was taken to make an evaluation through a variety of means. Every week after one lecturer completed his assignment, the participants evaluated his course using a specially prepared questionnaire. Also, there were three meetings during the progress of the course when the participants aired their criticisms and gave suggestions.

On the basis of the evaluation, the following improvements will be made in the next course.

1. a. Mutual introductions by exchange of bio-data
- b. "Creative problem solving through group processes" - workshop on the 1st day of the course
- c. Talks by the participants about their own work
- d. Book reviews by the participants
- e. Panel discussions with the panel involving representatives from the participants
2. Additional lectures and discussions on some new subjects, e.g. Advances in Biology and Ecology as well as workshops on Art Appreciation
3. Collective project work.

R.L. KAPUR

THE LECTURE THEMES

| | NAMES | LECTURE THEMES |
|-----|--------------------------|---------------------------------------|
| 1. | Prof. Andre Beteille | Sociology |
| 2. | Prof. R.L. Kapur | Mental Health and Human Management |
| 3. | Prof. S.S. Barlingay | Philosophy |
| 4. | Prof. Romila Thapar | The Interpretation of History |
| 5. | Dr. F.A. Mehta | Economics and the Developing World |
| 6. | Mr. Hiten Bhaya | Development Administration |
| 7. | Mr. T.R. Satish Chandran | Development Administration |
| 8. | Prof. K. Subrahmanyam | Politics and Defence |
| 9. | Prof. A. Neelameghan | Informatics |
| 10. | Prof. Renuka Ravindran | Elements of Mathematics |
| 11. | Prof. V.G. Tikekar | Computers and Computing |
| 12. | Prof. N. Mukunda | Philosophy of Science |
| | | SPECIAL LECTURES |
| 13. | Dr. S. Gopal | The National Movement |
| 14. | Prof. R. Narasimhan | Natural Language Development |
| 15. | Prof. John Barnabas | Evolutionary Molecular Biology |
| 16. | Dr. Francis A Menezes | Dreams |
| 17. | Prof. B.V. Sreekantan | Physical Creation |

The Visiting Faculty

1. **Prof. Andre Beteille**, Ph.D., Professor of Sociology, University of Delhi. Formerly Jawaharlal Nehru Fellow 1968-70; Commonwealth Visiting Professor, University of Cambridge 1978-79; Visiting Fellow, Wolfson College, Oxford 1978-79; Visiting Professor, Tinbergen Chair, Erasmus University, Rotterdam 1984; Visiting Professor, London School of Economics 1986. Research Interests: Social Inequality, Social Justice, Sociological Theory. Publications: Essays in Comparative Sociology; Caste, Class and Power; Inequality and Social Change - Studies in Agrarian Social Structure; Castes: Old and New and several academic papers.

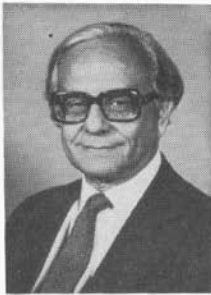


2. **Dr. Surendra Shivdas Barlingay**, Ph.D., Emeritus Professor, Department of Philosophy, Poona University. Formerly Professor, Indian Philosophy and Culture, Zagreb University, Yugoslavia 1962-64; Prof. & Head, Department of Philosophy, Poona University 1970-80. Visiting Professor, University of Western Australia 1968-70; National Lecturer, University Grants Commission 1974; Fellow, Indian Council of Historical Research; Fellow, Indian Council of Philosophical Research; Research Interests: Indian Philosophy and Culture. Publications: Poverty, Power and Progress; Beliefs, Reasons and Reflections; Kaia aur Saundarya and many other books and academic papers.



3. **Dr. John Barnabas**, Ph.D., Head, Division of Biochemical Sciences, National Chemical Laboratory, Pune. Formerly Professor, Post-graduate School for Biological Studies, Ahmednagar; Fulbright Fellow, Yale University, U.S.A. 1958-59; Netherlands Government Scholar, University of Groningen, Netherlands 1960-61; Shantiswarup Bhatnagar Award 1974; Jawaharlal Nehru Fellowship 1983-85; Fellow, Indian Academy of Sciences; Fellow, Indian National Science Academy. Research interest Molecular Genetics and Evolution; Publications: many academic papers.





4. **Shri Hiten Bhaya**, Member, Planning Commission, Government of India since 1985. Formerly Chairman, Hindustan Steel 1972-77; Director, Indian Institute of Management, Calcutta 1977-81; Adviser, Government of Ghana and Guyana; Director of several public and private sector companies.



5. **Shri T.R. Satish Chandran**, I.A.S. (Retd). Director, Institute for Social and Economic Change, Bangalore from 1988. Formerly Adviser (Energy), Planning Commission and Secretary, Ministry of Energy, Government of India 1976-83; Chief Secretary to Government of Karnataka 1983-87; Fellow, Indian Institute of Engineers; Member, Indian Institute of Public Administration.

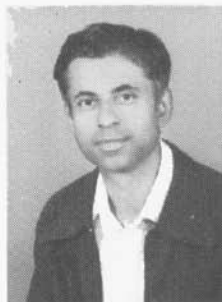


6. **Dr. S. Gopal**, D. Litt. (Oxon), D. Phil (Oxon); Fellow, St. Antony College, Oxford; Emeritus Professor, Jawaharlal Nehru University; Corresponding Fellow, Royal Historical Society; Sahitya Akademi Award 1976. Interests: History, Culture. Publications: Several books and papers including a three-volume book on Jawaharlal Nehru.

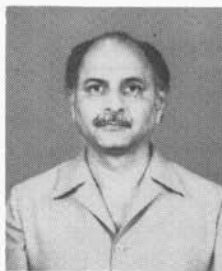


7. **Dr. Freddie A. Mehta**, Ph.D., Director, Tata Sons Ltd; & Chairman, Forbes Group of Companies; Chairman, Investment Corporation of India; Director-in-charge, Tata Economic Consultancy Services; Chairman, Siemens India Ltd; Member, Executive Committee and of the Board of Directors, IDBI; Member, Advisory Board of the Unit Trust of India & Member, Securities & Exchange Board of India. Formerly Director of several multinational companies. Interests: Economic and National Planning.

8. **Prof. N. Mukunda**, Ph.D., Chairman, Division of Mathematical and Physical Sciences, Indian Institute of Science, Bangalore, from 1985. Formerly Research Associate, Princeton University, U.S.A. 1964-66; Research Associate, Syracuse University, U.S.A. 1966-67; Fellow, and then Reader, Tata Institute of Fundamental Research, Bombay 1967-72; Professor, Centre for Theoretical Studies, Indian Institute of Science 1972 onwards; Chairman, Centre for Theoretical Studies, I.I. Sc., 1973-1979; Visiting Professor, Institute of Theoretical Physics, Götterberg, Sweden 1979 and 1982; Visiting Professor, University of Texas, Austin, U.S.A. 1973 and 1982; Visiting Professor, Duke University of Naples, Italy 1980 and 1983. Fellow, Indian Academy of Sciences; Fellow, Indian National Science Academy; Bhatnagar Award 1980; Jawaharlal Nehru Fellow 1987-89. Research Interests: Classical and Quantum Optics. Publications: 115 Research papers and 2 books.

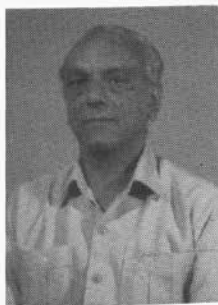


9. **Dr. Francis A Menezes**, Ph.D., Director, Tata Management Training Centre, Pune, since 1970. Formerly Executive Director, Indian Society for Applied Behavioural Science 1971-73; Council Member, Systems Research Institute 1975-78; Director, Indian Airlines. Research Interests: Dreams and Creativity, Motivation, Management Research. Publications: Several books and Academic papers.



10. **Dr. R. Narasimhan**, Ph.D., Senior Professor, Tata Institute of Fundamental Research, Bombay, since 1973. Formerly Chairman, CMC Limited 1976-79; Jawaharlal Nehru Fellow 1971-73; Padma Shree 1976; Dr. H.J. Bhabha Award 1976; Om Prakash Bhasin Award 1988. Research Interests: Computational modelling of behaviour, natural language behaviour modelling, Scientific methodology.

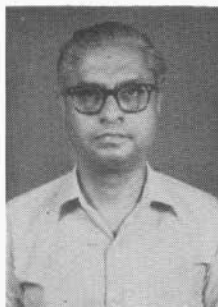




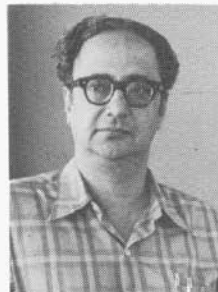
11. **Prof. A. Neelameghan**, Visiting Professor, Indian Statistical Institute/Documentation Research and Training Centre, Bangalore, from 1987. Formerly Professor and Head, Indian Statistical Institute/Documentation Research and Training Centre 1962-78; Chief Technical Adviser, UNESCO 1978-82; Visiting Professor, various U.S. Universities; Consultant (information system) for SIET, HAL, ONGC, CLRI, CMTI, HMT, etc. Publications: over 200 research papers and technical reports, 5 books.



12. **Prof. Renuka Ravindran**, Ph.D., Professor and Chairman of Applied Mathematics, Indian Institute of Science, Bangalore from 1988. Formerly Humboldt Fellow, Gottingen 1976-77; Visiting Associate Professor, Cornell University, U.S.A. 1983-84. Research Interests: Flows in compressible fluids. Publications: Several academic papers.

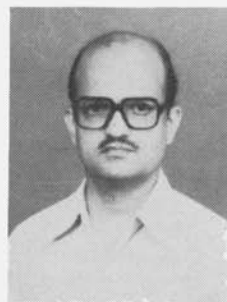


13. **Prof. K. Subrahmanyam**, I.A.S. (Retd). Nehru Fellow from 1988. Formerly Director, Institute for Defence Studies and Analyses, New Delhi 1968-75; Member, UN Inter - Governmental Experts Study Group on the Relationship between Disarmament and Development 1980-81; Jawaharlal Nehru Visiting Professor, University of Cambridge, U.K. 1987-88.



14. **Dr. B.V. Sreekantan**, Ph.D., Indian National Science Academy Srinivasa Ramanujan Professor, Tata Institute of Fundamental Research, Bombay, since 1987. Formerly Visiting Scientist, Laboratory for Nuclear Science, Massachusetts Institute of Technology, Boston, U.S.A. 1954; Visiting Scientist, Centre for Space Research, M.I.T. Boston, U.S.A. 1965-67; Director, Tata Institute of Fundamental Research 1975-87. Fellow, Indian Academy of Sciences; Fellow, Indian National Science Academy; National Lecturer U.G.C. 1981-82. Member, Atomic Energy Commission 1986 - 87; Padma Bhushan 1988. Research Interests: Theoretical Physics. Publications: Several books and academic papers.

15. **Prof. Romila Thapar**, Professor of Ancient Indian History, Centre for Historical Studies, Jawaharlal Nehru University, New Delhi. Formerly Distinguished Visiting Professor, Cornell University, U.S.A; Visiting Professor, University of California, Berkely, U.S.A; Directeur des Etudes, Maison des Sciences de L'Homme, Paris. Fellow of the Royal Asiatic Society; President, Ancient South Asia Section, British Assn. of Orientalists; National Fellow, Indian Council of Social Science Research. Publications: A History of India; The Past and Prejudice; From Lineage to State and many other books and academic papers.
16. **Prof. V.G. Tikekar**, Ph.D., Professor, Department of Applied Mathematics, Indian Institute of Science, Bangalore, from 1988. Formerly Visiting Fellow at the Computing Laboratory University of Newcastle upon Tyne (U.K.) 1975-76; Fulbright Fellow, University of Michigan, Ann Arbor (USA) 1987-88. Life Member, Indian Mathematical Society. Research Interests: Linear Programming, Theoretical Computer Science, Numerical Mathematics, Statistics, Mathematics Education. Publications: Several academic papers and books for NCERT and Karnataka Directorate of Text books.



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| 4. | Shri S N Chaturvedi Deputy Director General Geological Survey of India North Eastern Region, Laitumkhrah "Asha Kutir" Post Box No. 11 Shillong - 793 003 | 11. | Dr. A K Mukherjee Addl. Director General of Health Services Directorate General of Health Service Ministry of Health Government of India Nirman Bhavan Maulana Azad Road New Delhi - 110 011. |
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| 6. | Shri V S Dubey Joint Secretary Department of Coal Government of India Shastri Bhavan New Delhi - 110 001. | 13. | Shri M Kamal Naidu Director National Zoological Park Delhi - 110 003. |
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WHAT THEY SAID ABOUT THE COURSE

Here are the excerpts from some of the letters written by various participants expressing their opinions about the course:

.....With the new horizons that the NIAS lectures opened up, I have been making some attempts at acquiring and reading a few of the books to which we got references in the programme.....

(Mr. V. F Banaji)

.....Participating in the first course of NIAS was an intense experience and I am glad I got an opportunity to be in it. Please believe when I say this... I have attended quite a few training courses and I find that it is this course that I have benefitted from most and have enjoyed the best. I find some of my perceptions of life and of certain issues concerning our country have been shaken and I realise that this is a process that facilitates my growth. Interacting with the various lecturers, on an off the lecture hall, was an enriching experience.....

(Mr. S.T. Baskaran)

.....I am glad to admit that the lecture programmes at TMTC, as well as the field visits were really very informative and educative.....

(Mr. S.N. Chaturvedi)

.....I am glad to have an experience of participation in the first course conducted at TMTC by National Institute of Advanced Studies. Various subjects covered therein and the objectives were really unique.....

(Mr. V.V Chaudhari)

.....I am happy to inform you that the first course of NIAS was very beneficial and had widened the horizons of my knowledge. I am personally grateful to you for your guidance throughout the course.....

(Mr. G.S.Ram)

.....It was indeed a very stimulating period at Pune and I will certainly see it as the beginning of many more good things to come. I owe a special thanks to you and Dr. Kapur for the entire Programme; ITC will certainly be interested in espousing the cause of the National Institute of Advanced Studies.....

(Mr. R. Srinivasan)

.....It was a matter of pride and pleasure for me to participate in the first course of lecturing programme conducted by NIAS at TMTC during January/February, 1989. The course contents have really helped me in broadening my outlook in general and creating my interest in some new fields in particular.....

(Dr. Ram Kumar)

.....Participation in the first course of lecturing programme conducted by NIAS at the TMTC was indeed a unique experience and was certainly beneficial....

(Mr. D.N.V. Rao)

.....It was indeed a very refreshing and educative experience to have spent five weeks at TMTC with you during the first course of lecturing programme. The programme has no doubt given us a different perspective of our role in the organisation as well as the society.....

(Mr. D.S. Solanki)

.....Thank you very much for the very enjoyable programme organised at TMTC. With the massive preparations that went into the making of the course, it is no wonder that it was a grand success.....

(Mr. K.M. Thomas)

.....The first course of lecturing programme was really a new experience and very useful one to me. I have benefitted quite a lot personally.....

(Mr. R.C. Tripathi)

.....Presume preparations for the next batch of participants are over and hope they enjoy the course as much as I did.....

(Mr. F.A. Vandrewala)

.....My participation in the first course conducted by your Institute at TMTC, Pune has been a memorable experience.....

(Mr. R. Venkat Ramiah)

FUTURE PROGRAMMES OF NIAS

All the future courses will be held in Bangalore. The Institute is now busy preparing the architectural plans for the Institute buildings which are expected to be ready in two years. The faculty is already engaged in designing and organising specific research projects. The first workshop on an important national theme will be held in 1990. Many distinguished academics have shown interest in spending some time as Visiting Faculty and this programme will also be started in 1990.

The Second NIAS course for Senior administrators in Government and Industries will be held on the campus of the Indian Institute of Science, Bangalore from Sept. 18 - Oct. 21, 1989. In addition to all the best that was available in the first course, there will be series of lectures on "Key Issues in Biology" "Progress in Medicine " and "Appreciation of Music and Painting". There would be panel discussions on 'Violence', 'Energy Crisis' and 'Relevance of Gandhi to Modern India'.

A highlight of the programme will be the visit to the Bandipur Wildlife Park where, besides sightseeing, there will be special lectures on 'Wildlife Heritage of India' and on 'Ecology and Development'.

There will be attempts at greater involvement of the participants through Group discussions, book reviews and talks about their respective organisations.

Once again, the lectures chosen for the course will be by those known nation - wide for expertise in their respective disciplines.

How to apply: If you are a Senior Officer in the Government at the Joint Secretary level or a Senior Manager in Public Sector or Private Industry, you are entitled to apply for the residential courses. The cost of each course is Rs. 20,000. Your application needs to be channelised through your respective organisation.

