

National Centre for Radio Astrophysics
TATA INSTITUTE OF FUNDAMENTAL RESEARCH



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GOVIND SWARUP, F.R.S.

Professor of Eminence
Director, GMRT Project

TFR:PU:GS:PERS:93

Dated : 17th July 1993

Prof. B.V. Sreekantan
CareProf. George W. Clark
Department of Physics 37-611
Massachussets Institute of Technology
Cambridge MA 02139, USA.

My dear Sreekantan,

Thank you for your email of 18th June 1993. I enclose copy of extracts from the Yearbooks of INSA. As you will note that the 1993 yearbook says that the Raman Professorship was given to Prof. G. Padmanabhan and Ramanujam Professorship to Prof. G. Mehta. Please see page 96 of 1993 Yearbook. Prof. Sukhdev, recipient of Prof. Satyandra Nath Professorship will retire on 28th December 1993 and Prof. A.N. Mitra, Einstein Professor will retire on 31.10.1994. These decisions will be taken by a three-member committee, chaired by Prof. S.K. Joshi and perhaps Profs. C.N.R. Rao, P.N. Tandon later this year and an announcement of the decision will be made in January 1994 (as you will note from page 276 of yearbook enclosed).

An alternative possibility is Bhatnagar Fellowship of CSIR. *Please write to Professor SK Joshi; Nomination will have to be done, if advised by him on a form.*

Although I would certainly remain active at Pune, whether I get any Professorship or not, it will certainly help if I get one so that I have the facilities of housing, secretarial help and travel money - national and international. GMRT will make good progress by March 31, 1994, but it will only be by end of 1994 or early 1995 that all the antennas get completed and working. And then the instrument has to be debugged and optimised and suitable research teams established and nurtured.

You may wish to write about the matter to Prof. S.K. Joshi. There will be a meeting of the Council on August 5 and later on 15th October, before the meeting in January. I do not know as to when will they decide about the matter. I enclose a copy of my biodata. Also, I can send also directly to Prof. S.K. Joshi if you so desire. By the way, I have been awarded the GM Modi Science Award of Rs. 1.01 lakhs to be given at Siri Fort on August 9th.

With best regards,

According to your letter, one of the above two may have been given to Prof. Sreekantan.

Yours sincerely,

Govind

G. Swarup

GS:tsv:93.7.16.

Personal & Confidential

Pune
16.7.93

My Dear Sreehantan,

GMRT is now making better progress. Eight out of 30 antennas have been erected & more are to be erected by the end of July 93. We expect 16 to 18 to be erected by the end of Dec 93 - it takes about ^{2 to 3} months after erection (lifting of the completed dish + Quadripod) for installation of the mechanical equipment and handover of the antennas. NEVERTHELESS, lifting of the antennas is a major epoch. Thus, ~~at~~ this rate (2 antennas every 6 weeks) we will complete the project by end 1994.

I formally retire on March 31, 1993, at the age of 65 yrs. It has been suggested that I should continue formally as Director of the GMRT project, in order ~~not~~ that the momentum on the project is not lost & Contractors do not take advantage of my retirement, as they are already making losses (2 that's why low prices). I understand that Kapchi & Ananthkrishnan are going to discuss this aspect with Prof V. Singh. The decision about these aspects should be taken over the next few months (by the next Council meeting TIFR). I do not know whether any rules of the Govt will allow the above possibility. Although I will continue to work for GMRT, one way or another, it will certainly benefit if continuity is maintained, because there are large number of engineers,

PTO

technical details, tests to be done, debugging etc.

From Jan 1995, project will be in a different phase.

We have been testing two antennas & results seem satisfactory. We have also been getting astronomical data - but we have yet far to go !! GMRT is indeed a gigantic

project - that's also the comment of our foreign visitors from leading radio observatories.

I thought I should keep you informed about the above aspects, as you have taken such a keen interest in our project & in our group.

You may want to write your views about the problem raised to Prof V. Singh and/or Prof Menon.

If the above proposal is mooted, I could then avail INSTA ~~to~~ Einstein Prof from Nov or Dec 94, if selected. ^{Other} alternative is to seek Bhatnagar fellowship of CSIR or otherwise go to retirement & work purely on scientific problems in my personal capacity.

I hope Venkat & Ramesh are doing fine & you are enjoying your stay abroad. With best regards to you & Retna, for myself & Bina

Yours sincerely

Gand

17/7/95

We just heard about the sad demise of Aruna (Prof Menon's phd student). We were indeed shocked. Please do convey our sincere condolences to Devendra Lal - although I am also sending E-Mail & letter Gand.

Table VIII

INSA Research Professors (1985-91)

Name of Research Professorship	Year	Name & Institute	Topic of Research	Duration
INSA Golden Jubilee Research Professorship	1985	Professor A K Sharma Centre for Advanced Study Department of Botany University of Calcutta, Calcutta	Chromosome Research	16.12.85
				15.12.90
INSA C V Raman Research Professorship	1986	Professor M G K Menon Member, Rajya Sabha		3.1.86- 2.1.91
Srinivasa Ramajunan Research Professorship	1987	Professor B V Sreekantan Tata Institute of Fundamental Research, Bombay	Studies on Cosmic Radiation	1.7.87- 30.6.92
Satyendra Nath Research Professorship	1988	Professor Sukh Dev Department of Chemistry Indian Institute of Technology, Delhi	Chemistry of Natural Products	29.12.88
				28.12.93
Albert Einstein Research Professorship	1989	Professor A N Mitra Department of Physics Delhi University, Delhi	QCD Motivated Quark, Dynamics	1.11.89 31.10.94
INSA Golden Jubilee Research Professorship	1991	Professor R Narasimha Director National Aeronautical Laboratory, Bangalore	Yet to receive	1.1.91
				31.12.95
Chandrasekhara Venkata Raman Research Professorship	1991	Professor G Padmanaban Department of Biochemistry Indian Institute of Science Bangalore	-do-	1.4.91 31.3.96

Annual Report

⇒ G. Padmanabh

⇒ G. Mehra

INSA 1989-2 Yr Book

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1993

Annual Report

BASIC SCIENCES

Research in Basic Sciences provides a strong base for the development of R & D activities in the country promoting further basic and applied research. Academy uses its limited resources to support Research Professors, Superannuated Scientists and Young Scientists Medal Awardees, Visiting Fellowships and Identification of Emerging Area in Science and Technology.

RESEARCH PROFESSORSHIP

Under this programme the Academy awards Research Professorship to recognise a scientist of eminence for his outstanding contribution in Science and Technology and to enable him to continue the research. Five such Professorships have been created, and awarded one in a year with a tenure of five years. The Research Professors are named after the distinguished scientists as 'Albert Einstein', 'Chandrasekhara Venkata Raman', 'Srinivasa Ramanujan' and 'Satyendra Nath Bose'. A position of Research Professor was created during the Golden Jubilee Year of Academy and is called 'Golden Jubilee Research Professor'. 'Srinivasa Ramanujan Research Professorship' vacated by Dr BV Sreekanthan, TIFR, Bombay has been awarded to Professor Govardhan Mehta, Department of Chemistry, University of Hyderabad.

SENIOR SCIENTISTS' PROJECT

The Academy has created 40 Senior Scientists positions to utilize the expertise of Fellows who wish to continue their research in any academic institutions/laboratories of their choice. Seven Fellows of the Academy were offered Senior Scientists position for 1992.

RESEARCH FELLOWSHIP

Under this scheme scientists below the age of 40 years were provided fellowship to carry out research in their fields of specialisation without hindrance of administrative responsibilities. In 1990, the Academy reviewed the programme and decided to abolish it. However, the scientists who were awarded Fellowship in 1990 were allowed to continue to hold Fellowship till December 1992.

RESEARCH SUPPORT TO THE YOUNG SCIENTISTS MEDAL AWARDEE

Recipients of Young Scientist Medal Awardee are provided research grant by the Academy not exceeding Rs 40,000/- per annum.

VISITING FELLOWSHIP

The Academy has initiated a Visiting Fellowship Programme to encourage scientists who wish to undertake collaborative research or/for receiving training in specific techniques in advanced Indian Research Institution or/for utilising facilities which are not available in the Institute of Visiting Fellow for furtherance of their research

on "Cytotoxic Effect of Cells and Modulation of Their Function in Cancer" attracted great interest. Jaipur's discussion/workshop on "Biological Diversity and Management" and "Plant Protection" would prove useful to common man.

The major activities under the Basic Sciences consisted of appointment of Research Professors, Senior Scientists, Visiting Fellowships, Research Fellows and Research Projects to Young Scientists. These schemes have benefited a number of scientists over the last decade in various disciplines – encompassing various Institutions/Universities and other Research Centres in India. During the current year the *Srinivasa Ramanujan Research Professorship* was awarded to Professor G Mehta and *CV Raman Research Professorship* to Professor G Padmanaban. Under this scheme, support was also provided to a number of national and international conferences held in India. The mechanics of collaboration with other national societies/academies is being reviewed. The Visiting Fellowship Scheme introduced during this year is expected to play a useful role in long-term interactions among scientists. Under this Scheme (which replaced the Research Fellowship Programme), ten Scientists were selected as INSA Visiting Fellows for 1991-92. A new programme was introduced under Basic Sciences to identify *New Emerging Areas in Science & Technology*. Two themes, *Spectroscopy of Living System in vivo* and *Development of Pavement Management Systems in India* were chosen for further investigations.

The Academy has played a major role in bringing about scientists' interactions all over the world through its international activities. The huge inflow of reports of delegates sponsored by the Academy for various purposes abroad speaks of its committed role in creating awareness and interaction in respect of scientific advances and developments, and the benefits that have accrued as well as those that may accrue in future.

Agreements with Hungarian and the Czechoslovak Academies of Sciences were reviewed. With a view to promote organisation of bilateral seminars and symposia three Indo-Soviet Symposia, one INSA-JSPS Seminar and INSA-HAS Symposium were conducted during the year. *The Lord Blackett and Sir JC Bose Memorial Lectures and Jawaharlal Nehru Birth Centenary Visiting Fellowship Lectures* were significant activities under this programme. A number of scientists benefited through exchange visits under bilateral agreements.

The visit by the President, INSA to Germany, Czechoslovakia, Hungary and South Korea helped 1) to assess the scientific developments after unification of Germany; 2) to enhance the international scientific cooperation; and 3) to witness the incredible advancement of S&T particularly in South Korea.

Under the ICSU Programme, the Academy reconstituted National Committees for the ICSU Unions/Committees with a view to consult the scientists for representation in General Assembly Meeting; prepare the country reports; and liaise with International Unions and Committees. The Academy nominated 115 Scientists for the ICSU-sponsored and 145 Scientists for Conferences other than the ICSU-sponsored ones. The Academy nominated 19 Indian Scientists to join the Membership

provide the working facilities, e.g. research facilities, secretarial assistance, residential accommodation, etc. (where necessary a telephone and assistance of stenographer may be provided on job basis out of the contingency funds). The funds will be drawn by the institutions from INSA.

Announcement of the Professorship

For the award of the Professorship, the Council of the Academy shall appoint a Committee of three eminent scientists in addition to President who will be the Chairman of the Committee. All recommendations and suggestions will be considered by this Committee and the President shall present the name of the scientist selected by the Committee for approval of the Council in the meeting in January. The name of the awardee will be announced in the Anniversary General Meeting in January of the year of the award. The award of the Research Professorship would be effective within the calendar year of selection only, i.e. 1st January to 31st December.

Terms and Conditions

- (a) All patents, rights, designs and inventions derived from the research work financed or aided by the Academy shall belong to the Indian National Science Academy or its nominee. The Academy may, at its discretion, allow or direct any benefit in part or full thereof, to be retained by or given to the Professor/host institution.
- (b) The INSA Professor shall present to the Academy a yearly report of the work done. He shall, before the expiry of his professorship, also present a comprehensive report together with a summary. He will also be invited to deliver a talk during one of the INSA meetings after completion of his tenure as INSA Research Professor.
- (c) At the completion of the period of the INSA Research Professorship, the awardee shall hand over all permanent equipments purchased through the contingency funds to the institution where the work was undertaken or any other institution as decided by INSA.
- (d) These regulations may be revised or amended by the Council of INSA at any time.

Scheme of INSA Senior Scientist

Name of the Scheme and the Awardee

The Scheme shall be called 'INSA Senior Scientist Scheme' and the Awardee shall be called 'INSA Senior Scientist'.

Number of Positions

The number of INSA Senior Scientists to be selected each year shall be decided