RESEARCH SCIENCE INITIATIVE – CHENNAI SUMMER PROGRAMME, MAY-JUNE 2013

Much concern has been voiced of late about the state of science education in India. An

important aspect of the larger problems and issues involved here is the need to clearly

identify, suitably encourage and carefully nurture the bright children of today, in order to

ensure that the country takes its rightful place at the forefront of the knowledge-based

society of the future. As we are indisputably in the age of Science and Technology, it is

essential to ensure that adequate numbers of the best and brightest are attracted to these

areas at an early stage.

The Research Science Initiative-Chennai is a new endeavour that seeks to fulfill, in a

modest yet serious way, some of these needs. It is associated with, and modelled on, an

on-going programme in the USA, the Research Science Institute, that is sponsored by the

Center for Excellence in Education based in McLean, Virginia, USA and run in collaboration

with the Massachusetts Institute of Technology. This is an annual programme in which

about 80 selected students who have just graduated from high school spend 6 weeks in an

intensive research programme under the guidance of mentors who are established

scientists. The participants are required to submit a project report at the conclusion of the

programme. The programme is fully residential, and is multi-faceted, including lectures on

the sciences and other subjects as well as some extra-curricular activities over and above

the project undertaken by each student.

Contd...Page 2....

The Summer Programme of Research Science Initiative-Chennai is envisaged along similar lines, but with some significant differences, owing to the different circumstances prevailing here. The programme is being organized under the auspices of the PSBB Group of Schools, with Dr. (Mrs.) Y. G. Parthasarathy, Dean & Director, PSBB Schools, as the Chief Patron. Along with her Prof.M.S.Ananth, former Director IIT Madras & Prof. Bhaskar Ramamurthy, Director IIT, Madras are also Chief Patrons who are lending valuable support to this programme. The summer camp is run in collaboration with the Indian Institute of Technology Madras, Sastra University, Thanjavur, Chennai Mathematical Institute and IMSc, Chennai. Other Patrons of RSI-Chennai are: Prof. C. S. Seshadri, Former Director, Chennai Mathematical Institute, Prof. R. Sethuraman, Vice-Chancellor, Sastra University, Prof. M. S. Swaminathan, Chairman, MSSRF, Mr.K.V.Rangaswamy (L&T), Mr. Gopal Srinivasan (TVS-Electronics), Mr.B.Santhanam (Saint Gobain Glass Ltd) and Mr. R. Seshasayee (Ashok Leyland). The Summer Programme will be conducted by the academicians from IIT Madras (IITM), The Institute of Mathematical Sciences (IMSc), Chennai Mathematical Institute (CMI), Anna University, Sastra University and senior administrators from PSBB SSS.

The Summer Programme in 2013 (SP2013) is aimed at exceptionally bright students who have completed Std. XI and are about to enter Std. XII. It is planned to select about 30-35 students for a fully-residential, intensive, five week-long programme to be housed at IIT Madras during the period May - June 2013. The students will be selected

Contd..Page 3...

on the basis of their personal statements of purpose, curriculum vitae, academic

performance and potential, letters of recommendation from their teachers, and an

interview. For the present, practical considerations necessitate restricting the

programme to schools (catering to all Boards) in Chennai. The selected students will be

provided free lodging and boarding for the programme, as well as a stipend. There are

no marks or credits for participation in the programme, nor is the programme intended

to be any sort of tuition course for any examination or entrance test. The aim is to

channelise the interest, energy and enthusiasm of bright children in an appropriate

direction with the help and guidance of experts, active in the subjects concerned. Each

selected student is expected to participate in SP2013 in its entirety.

The focus of SP2013 will be on the basic sciences, namely, Mathematics, Physics,

Chemistry and Biology, as well as other interface areas and interdisciplinary areas

based on, or bridging, these subjects. The programme is meant to impress on young

minds the essential unity of science and the close links and inter-relationships between

its different parts, and will comprise:

a) A set of sequenced lectures on selected topics in each subject by experts.

b) Visits to laboratories and institutions of special interest.

c) Special lectures by distinguished scientists.

d) Entertaining/Educative Cultural programmes in the evenings.

Contd...Page 4

A significant component of SP2013 will be a project to be undertaken by each student. Each student will be assigned a mentor for his or her project work. A project report written by the student will be submitted towards the end of the programme, and each student will make a short presentation based on his or her work.

It is envisaged that individual attention will be paid to the students, and close academic interaction between the students and faculty will be achieved. Above all, the aim of SP2013 will be to impress upon students the fact that scientific discovery is an ongoing, ever-expanding and exciting enterprise in which they, too, can take part meaningfully.

Application for selection to the programme is to be filled out by the student. Each application must be endorsed by, and forwarded through, the Principal of the school concerned, and must be supported by three letters of recommendation from the teachers of the applicant, one from the class teacher and two from the science/math teachers. Applicants should be present class XI students only.

RESEARCH SCIENCE INITIATIVE-CHENNAI SUMMER PROGRAMME, MAY-JUNE 2013

APPLICATION FORM

To the student applicant: Please type or write neatly and legibly, in the space provided below each header. This form must be submitted through the Principal of your school. It must be accompanied by three Recommendation Letters from your teachers, including (i) your Class Teacher (ii) your Mathematics Teacher and/or your Science Teacher.

(i) your Class Teacher (ii) your Mathematics Teacher and/or your Science Teacher.		
Name and address of your s	school:	
School telephone no.		
School E-mail ID		
	name and last name, or write your initials ital letters. For example, C.V. RAMAN or :	
Date of birth	:	
Parent/guardian's name	:	
Home address	:	
Phone number(s)	:	
Res. Landline	:	
Mobile Father/Mother/Student E-mail Id	: Contd Page 2	

Page 2

Subject of interest	: Select the subject of greatest inter			
MATHEMATICS / PHYSICS /CHEMIS	TRY/BIOLOGY	out the rest.		
Explain, in a few lines, the reason(s) for your choice above:				
Your marks or grades in Std. X in Mathematics and Science (an attested copy of the mark-sheet or grade card must be submitted with your application)				
Standard XI group: What is the group you have chosen in Std. XI?				
Core and optional subjects of study in Std. XI:				
	Contd.	Page 3		

Page 3

Outstanding Awards, scholarships, prizes (including NTSE, KVPY, Olympiads at the state, national or international levels, etc obtained during the last 3 years only)		
School level:		
City level:		
State level:		
National:		
International:		

Community service and social work (brief description):		
France commission activities (list and describe these in brief).		
Extra-curricular activities (list and describe these in brief):		
	ContdPage 5	

Short essay: In the rest of this page, write a short essay in your own words on why science interests you, what you have done so far as a result of this interest, and what your goals are. The essay should be a personal statement. Below the

essay, sign your name and write down the date.

