# Advanced Training in Mathematics Schools

*Supported by National Board for Higher Mathematics*

## Fifth Annual Foundation School-Part I

*Venue:* Department of Mathematics, Panjab University, Chandigarh

*3-27 December, 2008*

*Conveners: S.K.Khanduja & G.K.Bakshi*

### Brief Description of ATM Schools

Advanced Training in Mathematics (ATM) Schools are a joint effort of more than 50 active researchers across the country with support from the National Board for Higher Mathematics. The programmes are conducted in reputed mathematics departments in Summer and Winter each year. In these Schools, the emphasis will be on problems solving and on highlighting inter-relations of basic subjects in mathematics. The schools are offered mainly for Ph.D. students and lecturers.

### Fifth Annual Foundation School-Part I

Basic knowledge in algebra, analysis, and topology forms the core of all advanced instructional schools to be organized in the ATM programme. The objectives of the Annual Foundation Schools are to bring students with diverse backgrounds up to a common level and to identify those who are fit for further training. Any student who wishes to attend the Advanced Instructional Schools is encouraged to enrol in the Annual Foundation Schools. In this Foundation School, courses of lectures will cover basic topics in algebra, analysis and topology. There will also be a lecture series entitled Unity of Mathematics Lectures which will cover topics highlighting fundamental unity among various branches of mathematics.

### Eligibility for participation

The School will admit 40 students in their first and second years of Ph.D. programme, a few bright students of M.Sc. (II year) and a few young university lecturers and college teachers. A participant who has attended an AFS-I before will not be allowed to attend this school.

### National Coordinating Committee

| | | |
|---|---|---|
| Director | R. S. Kulkarni | IIT Bombay |
| Secretary | J. K. Verma | IIT Bombay |
| Members | S. D. Adhikari | HRI, Allahabad |
| | S. Deo | HRI, Allahabad |
| | S. A. Katre | Pune Univ., Pune |
| | S. Madan | IIT Kanpur |
| | I. B. S. Passi | Panjab Univ., Chandigarh |
| | R. A. Rao | TIFR, Mumbai |

### Financial Support

Selected participants will be paid III-AC return train fare from their place of work/home town to the venue by shortest route and provided with accommodation and local hospitality.

### How to Apply

The syllabus, applications form and other information about the programme is available on the website:

**http://www.math.iitb.ac.in/atm** *or* **http://www.bprim.org**

Applications may also be made on plain paper, giving the following information: Name, Date of Birth, Age, Gender, Institute/Department, Areas of interest, Address for correspondence, email address, City, State, Pincode, Academic Record: B.Sc./M.Sc./ with names of the Institutes. These should be attested by Head/Principal of the institute.

**Completed application forms should reach**

> Prof Sudesh K. Khanduja
> Convener (AFS I)
> Centre for Advanced Study in Mathematics
> Panjab University, Chandigarh-160014
> Phones: (O) 0172-2541132, 2534501, 2534514
>          (M) 09815204096, 09914001444
> email: skhand@pu.ac.in, gkbakshi@yahoo.com

by **Monday, 15th Sept. 2008.**

List of selected candidates will be posted on the website of ATM Schools on **Monday, 22nd Sept. 2008.**

### Resource persons

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|---|---|
| Renu Bajaj | Panjab University, Chandigarh |
| Gurmeet K. Bakshi | Panjab University, Chandigarh |
| Savita Bhatnagar | Panjab University, Chandigarh |
| Satya Deo | HRI, Allahabad |
| Sudesh K. Khanduja | Panjab University, Chandigarh |
| R. S. Kulkarni | IIT, Bombay |
| A. R. Shastri | IIT, Bombay |
| Parvati Shastri | University of Bombay |
| Ajit Iqbal Singh | University of Delhi |

### Unity of Mathematics Lectures
*Prof I.B.S.Passi, Panjab University, Chandigarh*