SERB (DST)-sponsored 11th SERB School on Matrix Methods and Fractional Calculus

(28 April 2014 to 23 May 2014, four weeks)

Organized by the Centre for Mathematical and Statistical Sciences (CMSS) in collaboration with the Kerala State Council for Science, Technology and Environment (KSCSTE), and Kerala Forest Research Institute (KFRI), Peechi

Applications are invited to the all-India SERB School; 30 seats, all expenses met by SERB (DST); closing date of applications: 26 February 2014.

Eligibility: Young faculty below 35 years of age, post-doctoral fellows, research scholars, M.Phil. students, and if seats are available then a few M.Sc. graduates and final year M.Sc. students will be admitted.

Minimum qualification: B.Sc. (with Mathematics as a subject), M.Sc. degree or final year in M.Sc. programme in Mathematics/Statistics/Theoretical Physics/Theoretical Computer Science. Desirable: Exposure to basic probability and statistics and good background in calculus.

Topics to be covered: Vector–matrix differential operators, Jacobians of matrix transformations, matrix-variate functions, optimization of quadratic and bilinear forms, multivariate analysis; fractional calculus, fractional differential equations and applications in different disciplines, fractional calculus of matrix-variate functions; generalized inverses and patterned matrices, matrix methods in differential equations, non-linear analysis.

Apply on plain paper to The Director, CMSS, with the following details: name, age, male/female, married/single, full postal address, e-mail, phone number, copies (not originals) of all certificates plus permission certificate if employed and send these details to one of the e-mail addresses: dilipkumar.cms@gmail.com or naijumt@gmail.com or cmspala@gmail.com or directorcms458@gmail.com. Acknowledgement will be sent by e-mail. If acknowledgement by post is needed then enclose a self-addressed empty envelope with Rs 5 stamp affixed.

Faculty: Top researchers: Professor F. Mainardi (Italy), H. J. Haubold (Austria), A. M. Mathai (Canada/India), R. Gorenflo (Germany), V. Gejji (India). Additional proposed: Professor R. B. Bapat (India), N. Mukunda (India), Peeyush Chandra (India).

Lectures: Monday–Friday; 08.30–10.30, 14.00–16.00. Problem-solving sessions + coffee: 10.30–13.00, 16.00–18.00; no lectures on Saturdays and Sundays; free voluntary training in Tex, Latex, Maple on week-ends; class tests every week, cumulative grades appear in the certificates.

Director