

PREFACE

The fifth annual *Frontiers in Applied and Computational Mathematics Conference* (FACM '08) was held at the New Jersey Institute of Technology in Newark (NJIT), NJ, USA, May 19-21, 2008. This year's conference was one of the largest in the series and was focused on mathematical biology, mathematical fluid dynamics, applied statistics, and wave propagation; areas of research strength at NJIT. The present volume contains the texts of many of the invited talks delivered at the conference.

A special feature of the fifth conference was a celebration of the 75th birthday of Daljit S. Ahluwalia, in honor of his many contributions to the Department and the University. Professor Ahluwalia is longtime Chair of the Department of Mathematical Sciences and Director of the Center for Applied Mathematics and Statistics at NJIT.

The FACM Conferences have been organized as forums for free exchange of ideas and results at the frontiers of research in the mathematical sciences. An overriding aim of is to show the diversity of difficult problems in the biomedical, physical, and social sciences, and in engineering and technology, and how they can be treated using mathematical modeling. In addition to plenary and invited presentations by distinguished scholars, the fifth conference featured 20 contributed presentations by graduate students and postdoctoral researchers.

Thanks are due to President R. Altenkirch, Provost P. Nelson, Senior Vice President D. Sebastian, and Dean F. Deek, and other members of the NJIT administration and staff for their assistance. Financial support for this conference has been provided by NJIT's Strategic Initiative, the Society for Mathematical Biology, and the National Science Foundation.

In addition, the Local Committees members and staff deserve great thanks for creating a well-run and productive conference. It is a pleasure to thank all of them for their outstanding efforts.

Michael Siegel
(*Chair, FACM '08 Organizing Committee*)

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30 May 2008