

PROCEEDINGS
OF THE EIGHTEENTH SOUTH AFRICAN
SYMPOSIUM
ON
NUMERICAL MATHEMATICS

DURBAN, 13-15 JULY 1992

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**SYMPOSIUM
ON
NUMERICAL MATHEMATICS**

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S Abelman

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Preface

The eighteenth South African Symposium on Numerical Mathematics was held at the Tropicana Hotel, Marine Parade, Durban, from 13 to 15 July 1992. It was organized by the South African Society for Numerical Mathematics (SANUM), in conjunction with the Computer Science Department of the University of Natal, Durban. Fifty four delegates attended the conference, and forty five papers were presented. The invited speakers from abroad were Professor Walter Gautschi from Purdue University, West Lafayette, Indiana, USA, and Professor Bengt Fornberg from Exxon Corporate Research, Annandale, NJ, USA. Our local keynote speaker was Professor Louisa Baart from the University of Potchefstroom for CHE. This year there were also a large number of foreign visitors present from Israel, Japan, Sweden, Canada and Zimbabwe.

This collection of papers represents an excerpt of those delivered at the conference. Participants had a choice in deciding whether to submit an extended abstract, or a full length paper to these Proceedings. All contributions are published as received from the authors, without any refereeing or editing.

The Department of Computer Science, University of Natal, Durban is thanked for their generous contribution towards this Symposium. Our sincere thanks also go to Vector Network for their sponsorship and their computer demonstration and display at the Symposium. The prize for the best paper delivered by a delegate under the age of 35 years was sponsored this year by them. (The Vector Network Prize.) This year the standard of these talks was exceptionally high and the prize was shared between David Greenblatt from Aerotek, CSIR and Marius Coetzee from Potchefstroom University for CHE – congratulations!

All contributors to the Symposium, chairpersons of sessions and participants are thanked for their participation. On behalf of the members of SANUM and all delegates present at the Symposium, I express a very sincere word of thanks and appreciation to Ms. Ethel Carte of the Computer Science Department, University of Natal, Durban for her invaluable assistance and untiring efforts with the organizing and smooth running of the Symposium and the publishing of these Proceedings. As always, it has been a great pleasure and privilege working with her.

Unfortunately, Ethel is retiring from the University of Natal, Durban in May 1993. She has become an institution at our annual Symposium and we will miss her. However, I am pleased to announce her willingness to organize the 1993 Symposium for us. Thank you so much Ethel!

Dr Shirley Abelman
Secretary, SANUM.

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