FIRST FRANCO-SOUTHEAST ASIAN
MATHEMATICAL CONFERENCE

The above conference will be held in May 1979 at Nanyang University and is organised by the Department of Mathematics, Nanyang University, Lee Kong Chian Institute of Mathematics and Computer Science, Nanyang University, and the French Embassy in Singapore, in conjunction with Southeast Asian Mathematical Society and Singapore Mathematical Society.

The following programmes have been planned.

Programme 1

Workshop on Combinatorics and Graph Theory

Date: Monday, 14th May 1979 - Friday, 25th May 1979

Main Speakers: Claude Berge

J.A. Bondy (to be confirmed)

C.C. Chen

S.V. Gervacio

H.C. Huang

K.M. Koh (Co-ordinator)

C.K. Lim

S.C. Shee

H.H Teh

M.L. Vergnas

H.P. Yap

Suggested topics: Hamiltonian graphs, kernels of graphs, graceful graphs, perfect graphs, hypergraphs, algebraic graphs, coloring problems, matroid theory, network flows, matching theory.

Programme 2

Workshop on Optimization and Mathematical Programming

Date: Monday, 14th May 1979 - Friday, 25th May 1979.

Guest Speakers: A. Bensoussan

C. Lemarechal

H. Moulin

Co-ordinator: Chew Kim Lin

Topics: Bensoussan (4 lectures)

- General Theory of Optimization in Hilbert Space

- Necessary Conditions

- Applications to Control Theory

- Initiation to Numerical Algorithms

Lemarechal (3 lectures)

- Numerical Methods of Optimization

- Gradient Methods

- Numerical Methods for Non-differentiable Functionals

Moulin (3 lectures)

- Game Theory

- Applications to Economics

- Cooperative and Non-cooperative Games

Pre-requisites

  - Notions of functional analysis, Hilbert spaces, differential equations

  - Notions of convex analysis, convex sets, separation theorems for convex sets

  - Notions of mathematical programming in finite dimensional spaces

  - Computer programming notions are recommended

Notes will be distributed.

Programme 3

Mathematical Conference

Date: Monday, 28th May 1979 - Friday, 1st June 1979

Guest Speakers: H. Brezis

Peter Bullen (Canada)

J. Dhombres

J. Dieudonné

Kiyosi Ito (Japan)

J.L. Lions

L. Schwartz

There will be a special session on mathematical education on 30th May, 1979, to be held

at the Bukit Timah Joint Campus.

The following titles of talks have been confirmed.

1. J.L. Lion, IRIA, France:

   1. Optimal control of distributed systems

   2. Asymptotic calculus of variations.

2. J. Dieudonné; Nice, France:

   Special functions and representations of Lie Groups (3 lectures)

3. Lee Poh Ann; University of Malaya.

   Some stochastic problems in neurophysiology.

4. Lee Seng Luan, Universiti Sain Malaysia

   Limits of Cardinal spline functions.

5. Peng Tsu Ann, University of Singapore

   The Fitting subgroup and the hypercentre.

6. Louis Chen, University of Singapore

   Stein's Method in Limit Theorems for Dependent Random Variables.

7. Lee Peng Yee, Nanyang University

   Kothe duals and Matrix Transformations.

From the preface to   *Écrits et mémoires mathématique d'Évariste Galois*   by J. Dieudonné
(Paris, 1962):

   Doubtless we have known the excesses of a youthful romaticism in reaction against conservatism; it is well to retain one's critical sense when one is periodically invited to go into raptures over callow poets, kindergarten Picassos, or maestros in baby clothes. But, at least in mathematics, there is no possible doubt; without even mentioning the case of Galois, which is exceptional in many ways, dozens of famous examples show that in the continuing confrontation of the generations, the young almost always win, and their rearguard opponents succeed only in making themselves ridiculous in the eyes of posterity. Let the work of Galois never cease to remind those aging mathematicians who tend to forget, that their duty to science compels them to make room for the young and their new ideas, and to aid the propagation and success of those ideas in every way.