



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF EDUCATION, CULTURE AND SPORTS
Meralco Avenue, Pasig, Metro Manila

OFFICE OF THE SECRETARY

January 27, 1998

DECS MEMORANDUM
No. 30, s. 1998

DEPARTMENT OF MATHEMATICS
UNIVERSITY OF THE PHILIPPINES-DILIMAN INTERNATIONAL
CONFERENCE ON INVERSE PROBLEMS AND APPLICATIONS

To: Bureau Directors
Regional Directors
Schools Superintendents
Private Elementary and Secondary School Principals
Regional Science High School Principals

1. The Department of Mathematics, University of the Philippines-Diliman is hosting the International Conference on Inverse Problems and Applications at the ISMED Auditorium, UP Diliman on February 23-27, 1998.
2. A registration fee of Two Thousand and Eight Hundred Pesos (P2,800.00) will be charged each participant to : include attendance to all scientific sessions, all hand-outs, proceedings (which will be printed after the conference and will also include a list of all the participants), conference dinner and morning and afternoon snacks. Inclosed is the program of activities.
3. In view of the benefits that may be derived from attending this Conference, school heads are enjoined to allow their constituent teachers and researchers of mathematics to attend on official time only. Participants from private institutions shall make their own financial arrangements with their respective schools or agencies.
4. Immediate and wide dissemination of this Memorandum is desired.


RICARDO T. GLORIA
Secretary

Incl.:

As stated

Reference:

None

Allotment: 1-2--(D.O. 50-97)

To be indicated in the Perpetual Index
under the following subjects:

CONFERENCES

TEACHERS

CONFERENCE PROGRAMME, *International Conference on
Inverse Problems
and Applications*

FIRST DAY, February 23, 1998

- 8:30-9:00 **OPENING CEREMONIES**
- 9:00-9:30 **BREAK**
- 9:30-10:15 "....."
M. Zuhair Nashed, University of Delaware, USA
- 10:20-10:50 "A Physical Method of Regularization in Spherical Stereology"
Rudolf Gorenflo, Free University of Berlin, Germany
- 10:55-11:40 "Inversion of Magnitude-Phase Relation by means of a Fractional Order Model"
Roman Rutman, University of Massachusetts Dartmouth, USA
- 11:40-1:40 **LUNCH**
- 1:40-2:25 "Regularization and Approximations of Cauchy Problems for Elliptic Equations"
Hans-Jürgen Reinhardt, University of Siegen, Germany
- 2:30-3:00 "....."
Polly W. Sy, University of the Philippines-Diliman, Philippines
- 3:00-3:30 **BREAK**
- 3:30-4:00 "A Non-Characteristic Cauchy Problem for the Porous Media Equation"
Valeria Bacchelli^(*) and Carlo D. Pagani, Politecnico di Milano, Italy
- 4:05-4:35 "Determination of a Source in Geophysical Problem"
Valeria Bacchelli and Carlo D. Pagani^(*), Politecnico di Milano, Italy
- 4:40-5:10 "Zeros and Poles of Meromorphic Functions and Uniqueness in Inverse Problems"
Christian Sunyach, Université Pierre et Marie Curie, Paris 6, France

SECOND DAY, February 24, 1998

- 8:30-9:15 "Inverse Problems Arising in Electromagnetics"
H. Thomas Banks, North Carolina State University, USA
- 9:20-9:50 "Inverse Problems Arising in Structural Acoustics"
Ricardo del Rosario, North Carolina State University, USA
- 9:50-10:20 BREAK
- 10:20-11:05 "On a Sideways Parabolic Equation"
Dinh Nho Hao, Hanoi Institute of Mathematics, Vietnam
- 11:10-11:40 "-----"
Marian Roque, University of the Philippines-Diliman, Philippines
- 11:40-1:40 LUNCH
- 1:40-2:25 "Stable Recovery of Analytic Functions by Using Basic Hypergeometric Series"
Vu Kim Tuan, Kuwait University, Kuwait
- 2:30-3:00 "-----"
Do Ngoc Diep, Hanoi Institute of Mathematics, Vietnam
- 3:00-3:30 BREAK
- 3:30-4:00 "Two-Dimensional Surface Temperature Determination from Borehole Measurements:
Regularization by Finite moments"
T.T. Le, D. N. Thanh and D. D. Trong, Ho Chi Minh City National University, Vietnam
- 4:05-4:35 "An Inverse Problem in Gravimetry: Uniqueness and Regularization"
D. N. Thanh and N. V. Nhan, Ho Chi Minh City National University, Vietnam
- 6:30- CONFERENCE DINNER

THIRD DAY, February 25, 1998

- 8:30-9:15 "Wave-Field Splitting and Inverse Problems of Wave Equations"
Zhang Guanquan, Chinese Academy of Sciences, China
- 9:20-9:50 "Non-Reflecting Boundary Conditions for Wave Equations and their Stability Analysis"
Shao Xiumin, Chinese Academy of Sciences, China
- 9:50-10:20 BREAK
- 10:20-11:05 "Regularization Method for Nonlinear Ill-Posed Problems"
Ulrich Tautenhahn, HTWS Zittau, Germany
- 11:10-11:40 "Numerical Schemes for Solving the Acoustical Inverse Scattering Problem"
Frank Wuebbeling, University of Muenster, Germany
- 11:40-1:40 LUNCH
- SHORT COMMUNICATIONS
- 1:40-1:55 "Non-Skewsymmetric Perturbation of Diffusion"
Augusto Y. Hermosilla, University of the Philippines-Diliman, Philippines
- 2:00-2:15 "Some Applications of Tomography and Radon Transform"
N.D.Thuc, Ho Chi Minh City National University, Vietnam
- 2:20-2:35 "-----"
Eduardo Chan, De La Salle University, Philippines
- 2:40-2:55 "-----"
- 2:55-3:25 BREAK

FOURTH DAY, February 26, 1998

EXCURSION

FIFTH DAY, February, 27, 1998

- 8:30-9:15 "On the Inverse Problem and its Inversion Method for Wave Equations in Seismic Prospecting"
Liu Jiaqi^(*) and Wang Shou Dong, Harbin Institute of Technology, China
- 9:20-9:50 "A Computational Algorithm for the Exponential Radon Transform"
Bui Doan Khanh, Université Pierre et Marie Curie, Paris 6, France
- 9:50-10:20 BREAK
- 10:20-11:05 "Wavelet Methods for Nonlinear Inverse Problems"
Peter Maass, University of Potsdam, Germany
- 11:10-11:40 "-----"
Noli N. Reyes, University of the Philippines-Diliman, Philippines
- 11:40-1:40 LUNCH
- 1:40-2:25 "Lavrentiev-regularized Galerkin method for Abel Integral Equations"
Robert Plato, Berlin Technical University, Germany
- 2:30-3:00 "Conditional Stabilizing Estimation for the Integral Equations of the First Kind with Analytic
Kernel"
Jin Cheng^(*), Fudan University, China and Mashiho Yamamoto, University of Tokyo, Japan
- 3:00-3:30 BREAK
- 3:30-4:00 "Multipoint Boundary-Value Problems for Transferable Differential-Algebraic Equations"
Pham Ky Anh, National University of Vietnam in Hanoi
- 4:05-4:35 "Finite Element Program Generator and Finite Element Language"
Liang Guoping, Chinese Academy of Sciences, China