

M I S C E L L A N E A

1. List of Mathematicians and Computer Scientists	153
2. Physicists of Romanian Extraction	163
3. From the Bookshelves	165
4. 1985 A.R.A. Convention	172
5. Dan Barbilian (1895 - 1961)	175
6. Academia Mihaileana and the University of Iași	179
7. I. M. S. E. 1985	185
8. The 1985 Annual Meeting of the AMS	188
9. Ten Years Since the Abolition of the Mathematical Research Institutes in Romania	190
10. Mihai Botez	192
11. Personalia	193
12. The Authors of Volume V	195
13. Libertas Mathematica (publication policy , subscriptions etc.)	198
14. A. R. A. Publications	199

MATHEMATICIANS AND COMPUTER SCIENTISTS OF ROMANIAN EXTRACTION
RESIDING OUTSIDE ROMANIA

A

Felix Albrecht
Department of Mathematics
University of Illinois
URBANA , Illinois 61801

Mircea Arcan
Tel-Aviv University
School of Engineering
69978 TEL-AVIV , Israel

Florin Avram
White Hall
Cornell University
ITHACA , N.Y. 14853

Constantin Apostol
Department of Mathematics
Arizona State University
TEMPE , Arizona 85287

Marian Apostolache
402-15 Dellroy Avenue
KITCHENER , Ontario
Canada , N2A 2S2

Nicolae Anghel
Department of Mathematics
Ohio State University
COLUMBUS , Ohio 43210

Flavian Abramovici
Department of Mathematics
Tel-Aviv University
RAMAT-AVIV , Israel

Casius Alexandru
Vinetaplatz 2
1000 BERLIN 65
West Berlin

Mihaela Antonescu
Departement d'Informatique
Universite de Moncton
MONCTON , N. B.
Canada , E1A 3E9

Marian Aron
Department of Mathematics
Plymouth Polytechnic
Drake Circus , PLYMOUTH DEVON
Great Britain , PL4 8AA

B

Hari Bercovici
Department of Mathematics
Indiana University
BLOOMINGTON , IN 47405

Anca Barsanescu
26 rue Miollis
PARIS 15^e , France

Ana Burghelea
Department of Mathematics
Ohio State University
COLUMBUS , Ohio 43210

Israel Berstein
Department of Mathematics
Cornell University
ITHACA , N.Y. 14853

Ion Marin Belcea
129 Pemberton Avenue
OCEANPORT , N. J. 07757

Alecu Bencovski
3757 Brookhaven Drive # 464
DALLAS , TX 75234

Egon Balas
Graduate School of Industrial
Administration
Carnegie-Mellon University
PITTSBURGH , PA 15213

Vasile Badea
596 rue Lavoie
STE. DOROTHEE , Lava , P.Q.
Canada , H7X 2P4

Alexandra Bellow
Department of Mathematics
Northwestern University
EVANSTON , Illinois 60201

Richard Blum
Department of Mathematics
University of Saskatchewan
SASKATOON , S7N 0W0 Canada

Dan Burghilea
Department of Mathematics
Ohio State University
COLUMBUS , Ohio 43210

Malvina Baica
P. O. Box 408481
CHICAGO , Illinois 60640

C

Gregory Constantine
Department of Mathematics
Indiana University
BLOOMINGTON , IN 47405

Doina Cioranescu
Laboratoire d'Analyse Numerique
Universite de Paris VI
4 , Place Jussieu
75230 PARIS Cedex 05

Elena M. Croitoro
Department of Mathematics
Simon Frazer University
BURNABY , B.C. V5A 1S6
Canada

Petre Constantin
Department of Mathematics
Indiana University
BLOOMINGTON , IN 47405

Harry Cohn
Department of Statistics
University of Melbourne
PARKVILLE , Australia

Ioana Cioranescu
Fachbereich 17-Mathematik
Universität Paderborn
4790 PADERBORN
West Germany

Florin Constantinescu
Fachbereich Mathematik
Universität Frankfurt
FRANKFURT/Main
West Germany

Adolph Cusmariu
5248 W. Running Brook
COLUMBIA , MD 21044

Constantin Corduneanu
Department of Mathematics
The University of Texas at Arlington
ARLINGTON , TX 76019

Corneliu Constantinescu
Mathematisches Seminar
ETH - Zentrum
8092 ZURICH , Switzerland

Christian Constanda
Department of Mathematics
University of Strathclyde
26 Richmond Street
GLASGOW , G1 1XH , Scotland

Dorin Ciumaşu
Gartenstrasse 2
7332 EISLINGEN-FILS
West Germany

Nina Ciumaşu
(same address as Dorin C.)

Aurel Cornea
Fachbereich Mathematik
Katholische Universität
8078 EICHSTATT
West Germany

D

Radu Diaconescu
 Department of Mathematics
 Baruch College (CUNY)
 17 Lexington Avenue
 NEW YORK , N.Y. 10010

Mihai Dediu
 14251 Madison Avenue
 LAKEWOOD , Ohio 44107

Irinel Dragan
 Department of Mathematics
 University of Texas
 ARLINGTON TX 76019

Emeric Deutsch
 Department of Mathematics
 Polytechnic Institute of
 New York
 BROOKLYN , N. Y. 11201

Sofia Dediu
 1480 Rockway Avenue
 LAKEWOOD , Ohio 44107

Aristide Deleanu
 Department of Mathematics
 Syracuse University
 SYRACUSE , N. Y. 13210

Florin R. David
 Department of Mathematics
 Courant Institute NYU
 251 Mercer Street
 NEW YORK , N. Y. 10012

Nicolae Dinculeanu
 Department of Mathematics
 University of Florida
 GAINESVILLE , Florida 32611

Andrei Duma
 Fachbereich Mathematik
 und Informatik
 Fernuniversität Hagen
 5800 HAGEN West Germany

E

Ivan Erdelyi
 Department of Mathematics
 Temple University
 PHILADELPHIA , PA 19112

Elena Eftimiu
 Department of Mathematics
 University of Missouri
 8001 Nat. Bridge
 ST. LOUIS , Missouri 63121

Mordechai Epstein
 Department of Applied Mathematics
 Tel-Aviv University
 RAMAT-AVIV , Tel-Aviv , Israel

F

Peter Farkas
 226 Highland Avenue # 402
 STATE COLLEGE , PA 16801

Ciprian Foias
 Department of Mathematics
 Indiana University
 BLOOMINGTON , IN 47405

Sorana Froda
 Departement de Mathematique
 et Statistique
 Universite de Montreal
 MONTREAL , P. Q.
 H3C 3J7 Canada

John T. Fagarasan
 1020 W. Pecan Street
 BREA , CA 92621

Ion Filoti
 40 ter , rue Fabert
 75007 PARIS
 France

G

Emil Grosswald
 Department of Mathematics
 Temple University
 PHILADELPHIA PA 19122

Silviu Guiaşu
 Department of Mathematics
 York University
 DOWNSVIEW , Ontario
 M3J 1P3 Canada

Michael Ghil
 Courant Institute NYU
 251 Mercer Street
 NEW YORK , N. Y. 10012

Nicholas Georgescu Roegen
2614 Hemingway Drive
NASHVILLE , TN 37234

Virgil Gligor
Center for Information Science
Research
University of Maryland
COLLEGE PARK , MD 20742

Costin Ghibu
6225 Bienville
BROSSARD , P. Q.
J4Z 1W9 Canada

H

Peter Hammer
Center for Operation Research
Ritgers University
NEW BRUNSWICK , N.J. 08093

Sergiu Hart
Statistics Department
School of Mathematical Sciences
Tel-Aviv University
69978 TEL-AVIV , Israel

Ioana Hartoceanu
Wilhelm-Busch-Str. 53
6000 FRANKFURT/MAIN 50
West Germany

Theodor Hangan
Universite des Sciences et
Technique de Lille
Dept. de Mathematiques B.P.36
59650 VILLENEUVE , France

Pia Horowitz
Rh. Ben Eliezer 67/22
RAMAT GAN , Israel

I

Sorin Istrail
Department of Mathematics
Wesleyan University
MIDDLETOWN , CT 06457

Constantin Ivan
Fachbereich 11
Gesamthochschule Duisburg
4100 DUISBURG , West Germany

Andrei Iacob
Wezmann Institute of Science
REHOVOT , Israel

Tudor Ionescu
17 Oak Ridge Road
SUDBURY , MAS. 01776

G.D.Ianculescu
17171 Roscoe Blvd. # 250
NORTHRIDGE , CA 91325

Vasile Istratescu
Westring 331
2300 KIEL , West Germany

Constantin Ionescu
477 West 132 Street # 26
HOWTHORNE , CA 90505

George Isac
Departement de Mathematiques
College Militaire Royal
SAINT-JEAN , P.Q.
JOJ 1R0 Canada

Caius Ionescu Tulcea
Department of Mathematics
Northwestern University
EVANSTON , IL 60201

Dan Jurca
Department of Mathematics
California State University
HAYWARD , CA 94542

K

Sergiu Klainerman
Courant Institute NYU
251 Mercer Street
NEW YORK , N.Y. 10012

Gabi Klarsfeld
59 , rue d'Auteuil
75016 PARIS , France

L

Lawrence Lupash
1401 S. Harbor Blvd.
LA HABRA , CA 90631

Aldo Lazar
School of Mathematical Sciences
Tel-Aviv University
69978 TEL-AVIV , Israel

George Lusztig
Department of Mathematics
MIT Room 2- 276
CAMBRIDGE , MAS. 02139

Otto Liess
Fachbereich Mathematik
Technische Hochschule
61 DARMSTADT , West Germany

Liviu Librescu
Department of Solid Mechanics
School of Engineering
Tel-Aviv University
TEL-AVIV , Israel

Ioan D. Landau
Laboratoire d'Automatique
Institut National Polytechnique
GRENOBLE , France

Alexandru Lascu
Istituto Matematico
Universita degli Studi
FERRARA , Italy

Marica Lewin
Department of Mathematics
Israel Institute of Technology
HAIFA , Israel

M

Doru Marculescu
64 Tenterden Rd.
DAGENHAM , ESSEX
England

M.J.Munteanu (Mrs. Reiman)
6009 Bradley Blvd.
BETHESDA , MD 20034

Petrisor Mazilu
Hustarding 61
4630 BOCHUM , West Germany

Magda Mazilu
(same address as P.Mazilu)

N

Adriana Nastase
Lehrgebiet Aerodynamik des Fluges
TH - Vermittlung 801
Templergraben 55
5100 AACHEN , West Germany

Valerian Nița
28857 James
WARREN , MI 48092

Monica Nicolau
Department of Mathematics
Rutgers University
NEW BRUNSWICK , N.J. 08903

Monica M. Neagoy
7106 Arran Pl.
BETHESDA , MD 20034

Stefan Nuța
CAP - Sogeti Tertiaire
26 , rue de la Pepiniere
75008 PARIS , France

Constantin Negoita
Department of Computer Science
Hunter College (CUNY)
695 Park Avenue
NEW YORK , N.Y. 10021

Matei Machedon
Department of Mathematics
Princeton University
PRINCETON , N.J. 08540

David Mendel
Scientific Department
Ministry of Defence
P. O. Box 2250 (Dept. 44)
31021 HAIFA Israel

Hari Moscovici
Department of Mathematics OSU
COLUMBUS , Ohio 43210

Ion Moga
Salzburgerstrasse 3/29
8225 TRAUNREUT
West Germany

Sigrid Moga
(same address as I.Moga)

O

Andrei Ocneanu
Department of Mathematics
University of California
BERKELEY , CA 94720

Charles M. Oprian
Department of Mathematics
Western Illinois University
MACOMB , IL 61455

Phil Obreanu
Department of Mathematics
Queen's University
KINGSTON , Ontario , Canada

P

Costel Peligrad
Department of Mathematics
University of Cincinnati
CINCINNATI , Ohio 45267

Vasile Mihai Popov
Department of Mathematics
University of Florida
GAINESVILLE , Florida 32611

Radu Popescu
Departement de Mathematiques
Universite de Tours
37200 TOURS , France

Ion Paraschivoiu
Departement de Mecanique
Ecole Polytechnique
MONTREAL , P.Q.
H3C 3A7 Canada

Catalin Pora
407 N. Pennsylvania #604
INDIANAPOLIS , IN 46204

Alex Pelin
Department of Mathematics
Temple University
PHILADELPHIA , PA 19122

Magda Peligrad
Department of Statistics
University of Cincinnati
CINCINNATI , Ohio 45267

Mircea Predeleanu
Laboratoire de Mecanique des Solides
Ecole Polytechnique
91128 PALAISEAU , France

Monique Pavel
145 Avenue Malakoff
75116 PARIS , France

Liana Popescu
Institut Univ. de Technologie
Departement de Genie Electrique
Universite de Poitiers
86034 POITIERS , France

Adolph Pollinger
Israel Institute of Technology
HAIFA , Israel

Ilie Popescu
Departement d'Informatique
Universite de Quebec a Hull
HULL , P. Q.
J8X 3X7 Canada

Dan Pieptea
Department of Management and Systems
University of Texas at Dallas
RICHARDSON , TX 75083

Petru Papadopol
2A Fuller Terrace
ALBANY , N. Y. 12205

Florian Potra
Department of Mathematics
University of Iowa
IOWA CITY , Iowa 52242

Laura Pieptea (Nicolaide)
2002 Faimeadow Dr.
RICHARDSON , TX 75080

Dan Pascali
105-40 62nd Rd. # 1P
FOREST HILLS , N.Y. 11375

R

Corina Reischer
Department of Mathematics
University of Quebec
TROIS-RIVIERES , C. P. 500
G9A 5H7 Canada

Nicolas Radulesco
Le Victoria
13 , Blvd Princesse Charlotte
MONTE CARLO , Monaco

Ion Ratiu
347 South Road #G1
POUGHKEEPSIE , N.Y. 12601

M. Rosenblatt-Roth
School of Business
Seton Hall University
SOUTH ORANGE , N.J. 07079

Adrian Rezus
Department of Computer Science
Katholieke Universiteit
6525 NIJMEGEN , The Netherlands

Nicholas Rau
Department of Economics
University College
LONDON WC1E 6BT , England

Stefan Ralescu
Department of Applied Mathematics
Brown University
PROVIDENCE , R.I. 02912

Gruia Catalin Roman
Department of Computer Science
Washington University
ST. LOUIS , Missouri 63130

Eugen Roventa
5615 , rue Beaucourt #15
MONTREAL . P.Q.
H3W 2T7 Canada

Tudor Ratiu
Department of Mathematics
University of Arizona
TUCSON , AR 85721

Eugen Radu
Departement de Mathematiques
Ecole Normale Superieure
B. P. 5118
RABAT , Morocco

Anca Luminita Ralescu
Department of Mathematics
University of Cincinnati
CINCINNATI , Ohio 45221

Dan Radulescu
16724 Yukon Avenue #2
TORRANCE , CA 90504

Mihail Romanos
Department of Mathematics
Cornell University
ITHACA , N. Y. 14853

Dan Ralescu
Department of Mathematics
University of Cincinnati
CINCINNATI , Ohio 45221

Elemer Rosinger
CSIR-NRIMS
P. O. Box 395
PRETORIA , South Africa

Radu Roşca
Av. Emile Zola 59
PARIS 15-e , France

Alexandru Radu
Ponte de St. Julien 8
1227 CAROUGE
Switzerland

John J. Rau
6432 Via Estrada
ANAHEIM , CA 92807

Sandu Rautu
Ben Gurion University
of Negev
84105 BER SHEVA , Israel

S

Alexandru Solian
 Department of Mathematics
 University of North Carolina
 CHARLOTTE , N. C. 28223

Dana Schlomiuk
 Department of Mathematics
 University of Montreal
 MONTREAL , P. Q.
 H3C 3J7 Canada

Rodica Socolescu
 Mathematisches Institut
 Universität
 KARLSRUHE , West Germany

J. Schönheim
 Department of Mathematics
 Tel-Aviv University
 69978 TEL AVIV , Israel

Vlad Sergiescu
 U.E.R. de Mathematiques
 Universite des Sciences et
 Techniques de Lille-I
 59655 VILLENEUVE-d'Ascq
 France

Daniel F. Spulber
 Department of Economics
 Brown University
 PROVIDENCE , R.I. 02912

Alex Suci
 Department of Mathematics
 Columbia University
 NEW YORK , N.Y. 10027

Liviu Solomon
 Laboratoire de Mecanique Theorique
 Universite de Poitiers
 POITIERS , France

Anca Deliu Stanescu
 Department of Mathematics
 Washington University
 P. O. Box 1146
 ST. LOUIS , MO 63130

Dan Simovici
 Department of Mathematics , U. Mass.
 BOSTON , MA 02125

Dan Socolescu
 Mathematisches Institut
 Universität
 D - 75 KARLSRUHE
 West Germany

Norbert Schlomiuk
 Department of Mathematics
 University of Montreal
 MONTREAL , P. Q.
 H3C 3J7 Canada

Marius Stoka
 Istituto Matematico
 Università degli Studi
 TORINO , Italy

I. J. Schoenberg
 1111 Oak Way
 MADISON , WI 53705

Ioana Schiopu-Kratina
 Business Survey Methods Division
 Jean Talon Bldg
 Statistics Canada
 OTTAWA , Ontario
 K1A 0T6 Canada

T

Radu Theodorescu
 Department of Mathematics
 University of Laval
 QUEBEC , G1K 7P4

Fabian Todor
 Departement de Mathematiques
 et Statistique
 Université de Montreal
 MONTREAL . P. Q.
 H3C 3J7 Canada

Ioana Triandaf
 Department of Mathematics
 University of Minnesota
 MINNEAPOLIS , Minnesota 55455

Petre Tautu (M.D.)
 Sonderforschungsbereich
 Stochastische Modelle
 Im Neuenheimer Feld 294
 6900 HEIDELBERG , West Germany

Lior Tzafriri
 Department of Mathematics
 Hebrew University
 JERUSALEM , Israel

Victor Trutzer
 Department of Mathematics
 West Virginia University
 MORGANTOWN , W. Va. 26506

Nicolae Tipei
 1403 East 5-th Street
 ROYAL OAK , MI 48067

Nicolae Tutoş
 1034 Franklin Road
 MARIETTA , GA 30067

Imre Toth
 Lehrstuhl für Allgemeine
 Wissenschaftsgeschichte
 8301 Niederleierndorf
 Universität
 REGENSBURG , West Germany

Nicolae Teleman
 Department of Mathematics
 SUNY at Stony Brook
 STONY BROOK , N. Y. 11794

Florian Tent
 5041 N. Damen
 CHICAGO , IL 60625

U

Sabetai Unguru
 Institute for History &
 Philosophy of Science
 Tel-Aviv University
 RAMAT AVIV , TEL-AVIV
 69978 , Israel

C. Unguriano
 722 Newton Avenue N.
 MINNEAPOLIS , MN 55411

V

Andrei Verona
 Department of Mathematics
 California State University
 LOS ANGELES , CA 90032

Carmen Vlad
 Department of Mathematics
 New York Polytechnic Institute
 BROOKLYN , N. Y. 11201

Izu Vaisman
 Department of Mathematics
 University of Haifa
 Mt. Carmel , HAIFA
 31999 Israel

Eug. Nic. Vasilescu
 Department of Statistics
 Baruch College
 46 East 26-th Street
 NEW YORK , N. Y. 10010

Serge Vasilach
 4 , Alee du Suret
 27100 LE VAUDREUIL
 France

W

Elena Wexler-Kreindler
 Mathematiques
 Universite Pierre et Marie Curie
 4 , Place Jussieu
 75320 PARIS Cedex 05
 France

Jack Weinstein
 SOFTEL - Adv. Techn. Ltd.
 60 Medinat Ha Yehudim
 P. O. Box 3112
 46103 HERZELIYAH , Israel

Dinu Wexler
 Institut de Mathematiques
 Facultes Universitaires
 61 , rue Bruxelles
 500 NAMUR , Belgium

Z

Maria Zamfir (Bleyberg)
 3715 Castelrock Road
 MALIBU , CA 90265

Laszlo Zsidó
 Mathematisches Institut A
 Universität Stuttgart
 7000 STUTTGART 80 , West Germany

Tudor Zamfirescu
Abteilung Mathematik
Universität Dortmund
DORTMUND , West Germany

S. Zaidman
Department of Mathematics and
Statistics
University of Montreal
MONTREAL , P. Q. H3C 3J7 Canada

Christina Zamfirescu
Department of Mathematics
Hunter College (CUNY)
695 Park Avenue
NEW YORK , N. Y. 10021

The following colleagues have changed their affiliation or their address ,
and presently we do not know their exact coordinates :

USA : M.Breban , Larisa Patraşcu (Bejenaru) , Alexandru Stanculescu , Mar-
cel Nicolau , Carina Parvulescu , Deonisie Trifan , Mark Sturza , Jo-
sefina Bondoc

FRANCE : L.J. Nicolescu , Carmen Ieşan-Maftei (Paris)

WEST GERMANY : Ştefan Şandor , Ervin Schechter , Micheline Schechter

ISRAEL : Enric Goldhagen , Sender Solomon , Andrei Ney , Dan Butnariu

BELGIUM : Radu Badesco

CANADA : Dorin Ghişă

ADDENDUM

Ingrid Fotino
685 10th Street
BOULDER , CO 80302

Liviu R. Lustman
NASA , LRC Mail Stop 409
HAMPTON , VA 23665

Barbu C. Kestenband
200 S. Middle Neck Cl
GREAT NECK , N.Y. 11021
(N.Y. Institute of Technology)

John F. Oprea
Department of Mathematics
Purdue University
WEST LAFAYETTE , IN 47906

Genevieve Lopata
31 , rue de Coulanges
94370 SUCY EN BRIE , France

Claudia-Lidia Simionescu-Badea
Klederinger Strasse 51
2320 SCHWECHAT , Austria

PHYSICISTS OF ROMANIAN EXTRACTION

N. Andrei
Department of Physics NYU
NEW YORK , N.Y. 10003

Mihai Gavrilă
Inst. Atomenmolekulfysik (FOM)
AMSTERDAM The Netherlands

Radu Balescu
Université Libre de Bruxelles
BRUXELLES Belgium

Adrian Gelberg
Wüllner Strasse no. 125
D- 5000 KOLN 41
West Germany

Alexandru Blumen
Lehrstuhl Chemie
Technische Universität
MÜNCHEN West Germany

Ion Ghika
29 rue du Chemin Vert
Paris France

Dan Botez
RCA Laboratories
PRINCETON NJ

Adina Koch
Department of Physics
Hebrew University
JERUSALEM Israel

Doina Bunaciu-Filip
19 av. Feuillasse 1217
Meyrin - GENEVE
Switzerland

Sorin Marculescu
Ins. Theor. Kernphysik
KARLSRUHE West Germany

Dan Cacuci
Oak Ridge National Labs
OAK RIDGE TN 37830

Meinhard Meyer
Department of Physics
University of California
IRVINE CA 92717

Corneliu Eftimiu
McDonell - Douglass
P.O.B. 516
ST. LOUIS MO 63166

Basarab Nicolescu
Institut de Physique Nucléaire
Université de Paris-Sud
ORSAY France

Octavian Enea
Laboratoire de Chimie du CNRS
Université de Poitiers
POITIERS France

Pavel Pechiu
38622 Vancouver Common
FREMONT CA 94536

Mircea Fotino
Department of Physics
University of Colorado
BOULDER Colorado

Constantin Pomponiu
28 East Lance Leaf Rd
The WOODLANDS TX 77380

Alexandru Pop
9171 Imperial Avenue
GARDEN GROVE CA 92644

Vladimir Protopopescu
Oak Ridge National Labs
OAK RIDGE TN 37830

Adrian Patrascioiu
Department of Physics
University of Arizona
TUCSON AZ 85721

Calin Popescu
Department of Physics
University of Texas
AUSTIN TX 78712

Hans Raszillier
Ins. Theor. Physik
Universität Bonn
BONN West Germany

Vladimir Rtttemberg
Inst. Theor. Physik
Universität Bonn
BONN West Germany

Mihai Rosenberg
Drosselweg no. 12
D-4630 BOCHUM 1
West Germany

Tudor Roşescu
Osterreich Umwelt Institut
WIEN Austria

Mihaela Sararu
Institut Theor. Kernphysik
KARLSRUHE West Germany

Ion S. Ştefanescu
Institut Theor. Kernphysik
KARLSRUHE West Germany

Floarea Stancu
Institut de Physique B5
LIEGE Belgium

Mircea Sabau
Argonne National Laboratory
WOODRIDGE IL 60515

Viorel Sergiescu
11 rue de Chatenay 49
92160 ANTONY France

We have only partial information concerning the addresses of the following colleagues :

USA : Anton Moldovan (Princeton) ; Irina Russu (Pitsburgh , PA) ; Erwin Friedlander ; Irina Marinescu-Curelaru ; Stefan Vaida ; Persi Tehric ; Miron Kaufmann ; Petre Rusu ; Eugen Badralexe

West Germany : Dan Constantinescu (München) ; Mihai Sostarich (Bochum) ; Mihai Stihi (München) ; Toma Vescan ; Ladislau Banyai ; Nicolae Marinescu ; Richard Weiner ; Tudor Dumitrescu

France : Sorin Ciulli (Montpellier) ; Ileana Milcu-Agalidis (Fontenay aux Roses) ; Horia Dumitrescu ; Nicolae Carjan ; Iuliu Ushersohn

Australia : Dumitru Moiescu , Gabriela Moiescu ; Belgium : Alexandru Babcenco ; Switzerland : Tudor Bunaciu ; Israel : Isac Goldhirsch (Tel Aviv)

FROM THE BOOKSHELVES

ANDREI VERONA : Stratified Mappings-Structure and Triangulability . Lecture Notes in Mathematics , Springer-Verlag , Berlin , 1984 , 160 pp.

The aim of this monograph is to prove a conjecture stated by R. Thom : "Almost all smooth mappings are triangulable" . The basic result obtained in this monograph can be stated as follows : Let M and N be smooth manifolds without boundary . Then any proper , topologically stable smooth map from M to N is triangulable . As a matter of fact , a more general result is obtained by the author . Namely , it is shown (Theorem 8.9) that certain stratified mappings are triangulable . Auxiliary material is treated in detail , making the lecture of the book independent of other sources . Table of Contents : Notations and conventions ; Abstract stratification ; Controlled vector fields ; Abstract Thom mappings ; Manifolds with faces ; Abstract stratification (with faces) ; The structure of abstract Thom mappings ; Triangulation of abstract stratifications ; Triangulation of nice abstract Thom mappings ; Appendix ; References . This is a highly specialized publication , clarifying by affirmative a question formulated by one of the most reputable mathematician of this century .

NACHMAN ARONSAJN , THOMAS M. CREESE , and LEONARD J. LIPKIN : Polyharmonic Functions . Oxford Mathematical Monographs , Clarendon Press , Oxford , 1983 , X + 265 pp.

A solution of the partial differential equation $\Delta^m u = 0$, where Δ stands for the Laplace operator , is called a polyharmonic function of order m . The first monograph dedicated to the theory of polyharmonic functions has been published in 1936 by Miron Nicolescu (Les fonctions polyharmoniques , Hermann , Paris) . The theory of this class of functions , with significant applications in various fields , has constituted the preoccupation of many authors , belonging to several generations . The most important contributions have been included in the present monograph . More than 90 items are listed in the References . We notice the contributions brought by some Romanian mathematicians , besides those

due to Miron Nicolescu ; N. Cioranescu , M. Ghermanescu , Dan Pascali , Silviu Teleman . Some of the major contributors to this field are : G. Fichera , A. Friedman , Mauro Picone , I. Privaloff , I. N. Vekua . Professor N. Aronszajn died in 1980 , before this monograph has been completed . The work has been carried out by the last two authors . They ceratinly deserve the warmest congratulations for a job well done . Contents : Preliminaries ; Polyharmonicity and analytic continuation ; Singularities in R^n ; Local Laplacian order and type ; The Almansi expansion ; Extensions and applications ; Appendix (holomorphic capacity) .

NICOLAE H. PAVEL : Differential equations , flow invariance and applications . Pitman Advanced Publishing Program , Pitman Publ. Ltd. , London , 1984 , VII + 243 pp.

This monograph presents some of the main research , recently conducted in the field of differential equations on closed sets . Applications of the general results are also given . The following chapters are displayed : 1. Preliminaries from Nonlinear Analysis ; 2. Differential equations on closed sets (including Godunov's theorem , local and global existence on closed sets , Martin's theorem on generation of nonlinear semigroups on closed sets , flow invariance , stability , the Nagumo-Brezis theorem , positivity , flow invariance under Caratheodory's type conditions) ; 3. Flow invariance with respect to second order differential equations , and applications to flight space ; 4. Flow invariance on Banach manifolds and some optimization problems ; 5. Perturbed differential equations on closed sets (Differential inclusions , Pazy's local existence theorem , semilinear differential equations of retarded type , extension of Hale's theorem , the extendability of mild solutions , some applications to partial differential equations) . Appendix . References . The monograph is a successful attempt to unify and place into a natural framework various recent results obtained in the theory of differential equations on closed manifolds .

S. ZAIDMAN : Almost-periodic functions in abstract spaces . Pitman Advanced Publishing Program # 126 . Pitman Publ. Ltd. , London , 1985 , III + 133 pp.

This monograph presents most of the basic results in the theory of almost periodic functions with values in abstract spaces , which results are not usually included in other similar publications . The first three chapters of the book

are dedicated to some basic properties of abstract functions (not in direct relation with almost periodicity) ; Continuity ; Differentiability ; Continuity, differentiability and integration in locally convex spaces . The fourth chapter deals with almost periodic functions (Bohr-Bochner) from the real line into a Banach space . The next chapter is devoted to the concept of asymptotic almost periodicity . The sixth chapter is concerned with precompact families of vector-valued functions , and particularly with families of almost periodic functions . Special attention is paid in chapter seven to the integration of almost periodic functions . Zhikov theorem is not included . The eighth chapter is completely dedicated to the theory (Bochner) of almost automorphic functions . Chapter nine contains the theory of almost periodic functions from \mathbb{R}^n into a Banach space . The remaining four chapters deal with mean value , Fourier series , weak almost periodicity (including functions defined on abstract groups) . Illustrations of the theory are included , especially in connection with differential equations . A deeper investigation of the connection in between an almost periodic function and its Fourier series would have been welcome . The monograph is a valuable addition to the theory of abstract almost periodic functions , and certainly renders service in this period when the applications of almost periodic functions are more and more frequent .

CORNELIU MARINOV : Applications of dissipative operators in electrical circuit theory . Lappeenranta University of Technology , Department of Physics and Mathematics , Lecture Notes 1 , 1985 , 47 + VI pp.

This publication contains the material presented by the author at the Lappeenranta University of Technology , in a series of lectures delivered during the month of September , 1984 . As the title indicates , the dissipative operators are systematically used in the investigation of of electrical circuits . The main sections of the monograph are : Electrical networks with lumped elements ; Electrical networks with countably approximated distributed elements ; Electrical networks with distributed parameter elements . The functional analytic methods are amply used in the exposition , a feature that stresses the penetration of these relatively new methods in some of the most applied fields of science . The text is adequate for applied mathematicians and research engineers interested in circuit theory . It is highly illustrative for applications of modern mathematics in engineering science .

VIOREL BARBU : Optimal control of variational inequalities . Pitman Advanced Publishing Program , Pitman Publ. Ltd. , London , 1984 , V + 298 pp.

The author is one of the world authorities in modern Control Theory , and this title is a valuable addition to the mathematical literature pertaining to the field . The book is concerned with the theory of first order necessary conditions of optimality for processes described by means of variational inequalities . The following chapters constitute the skeleton of the book : Elements of Nonlinear Analysis ; Elliptic variational inequalities ; Optimal control of elliptic variational inequalities ; Parabolic variational inequalities ; Optimal control of parabolic variational inequalities (distributed controls) ; Boundary control of parabolic variational inequalities ; The time optimal control problem . A unified and constructive approach to the theory of necessary conditions is emphasized . This approach has its origin in earlier work of the author (see his papers in JMAA 1981 , and SIAM J. Control and Optimization , same year ; also Barbu & Precupanu : Convexity and Optimization in Banach Spaces , Noordhoff , 1978) . Contributions from author's students are also emphasized : O. Carja , V. Arnautu , and Dan Tiba . The book is highly recommended to mathematicians specializing in Control Theory .

SOLOMON MARCUS : Paradoxul (The Paradox) . Editura "Albatros" , Bucharest , 1984 , 183 pp.

Professor Solomon Marcus from the University of Bucharest is known for his outstanding contribution to Mathematics , as well as for his continuous interest in the connections existing between Mathematics and various other fields of knowledge : Logic , Mathematical Linguistics , Philosophy , History of Ideas . This title is one more addition to the long list of contributions brought by the author in the above specified direction . In illustrating his statements , the author amply uses examples from world's and Romanian culture , such as Gödel's thinking , paradoxes in Ionesco's play "La cantatrice chauve" , or writings by authors like Marin Sorescu , Nichita Stanescu , Ana Blandiana . The long list of topics discussed in the book ends with an abstract , and an attempt to systematize many aspects encountered during the exposition of this interesting subject . The book is recommended not only to mathematicians , but to all those interested in culture , ideas , and thinking .

OCTAV ONICESCU : Memorii (Memoirs) . Editura Științifică și Enciclopedică , Vol. I (1982) , Vol. II (1984) , Bucharest , 288 pp + 359 pp.

Professor Octav Onicescu passed away in 1983 , at the age of 91 . The second volume of his memoirs was published with the active cooperation of his surviving wife Luiza Onicescu , his siter-in-law Iolanda Zaharia , and with the help of Onicescu's sons Dr. Dan Onicescu and Dr. Mircea Onicescu . Valuable contribution toward the carrying out of the project ha come also from Onicescu's students Dr. Mihai Botez , Dr. Marius Iosifescu , and Arh. Mariana Celac . Professor Onicescu was a continuous and prominent presence in Romanian cultural life for approximately seven decades . He was a veteran of the WW I . He was associated with the University of Bucharest for almost all active life , where he has taught mainly Probability Theory and Mechanics . But Onicescu was also interested in Statistics , Actuarial Mathematics , and other branches of Applied Mathematics . He is known in Romania as the founder of the School of Probability and Statistics . His active participation in organizing various institutions (including his rectorship at the National Institute for Physical Education) , in Finance , Insurance , and other branches of the scientific , cultural or economic life of Bucharest and Romania , has made him a very popular figure of the years 1930 - 1980 . In his memoirs , the read will find a panorama of the life in Bucharest , in the high strata of the society , during those years . Of course , the stress is on the academic life in that city , but many interesting connections are revealed outside the academic world . Onicescu has known personally , and was in touch with such personalities as Nae Ionescu , Constantin Radulecu-Motru , George Enescu , Horia Hulubei , Mircea Vulcanescu , Constantin Noica , the industrialist Nicolae Malaxa , and many others . In his youth , Onicescu had a chance to work and communicate with such mathematicians as Maurice Frechet , Vitto Volterra , Guido Castelnuovo . His recollections from those years are very vivid , and very relevant in regard to the European mathematical atmosphere following the end of WW I . Onicescu was highly praised by his colleagues and students . Unfortunately , most of his students who won recognition in their work , have left Romania , and very few only have been close to him during the last years of life . Nevertheless , Onicescu appears an optimist , despite the difficult conditions creted to Romanian scientists and intellectuals during the last 10 - 15 years . Very interesting are his comments in regard to his students .

ION BARBU ; Versuri și Proza (Verses and Prose) . Biblioteca pentru toți , Editura Minerva , Bucharest , 1984 , XLVIII + 287 pp.

Ion Barbu is the pen name of Dan Barbilian , a former professor of Geometry and Algebra at the University of Bucharest . He is also a classic name in Romanian poetry . This edition of his literary works has been prepared for print by Dinu Pillat . It contains most of his poetry , and a good deal of his prose writings . Unlike precedent editions of Barbu's work , the present one has included some articles Dan Barbilian dedicated to world famous mathematicians : Evariste Galois , Carl Friedrich Gauss , David Hilbert , Wilhelm Blaschke . An article published in Tribuna (1958) , entitled "Research trends in contemporary Mathematics" is also included . In future volumes of the journal we will insert translations of such articles . Dan Barbilian spent a good deal of time in Göttingen , where he met Hilbert , and has been influenced by Emmy Noether . This book of poetry and prose will certainly be received with enthusiasm by the Romanian readers .

ION VULCANESCU : The Point's Synthesis (The Sphere's Philosophy) . Manufactured in the United States of America by Exposition Press , Inc. , Smithtown , N.Y. , 1984 , X + 77 pp .

This booklet refelects some preoccupations of philosophical nature of the author , in which elementary geometry and arithmetic are involved . The author speculates on what is known as Sphere's Philosophy , and the opposition in between this and the Point's Synthesis . The Contents : The Sphere's Philosophy (which is traced back to Phoenician civilization) ; The Circle is a Living Move ; The Circle is the Point's Circumference ; The Mystery of the Number Nine's Multiplication ; The Point's Sphere ; The Way to the Sets of Numbers ; Positions of the Sets of Numbers inside the Sphere ; The Numbers' Graphics ; The Sphere's Philosophy - the Origin of the Numbers' Graphics ; The Point's Boundaries ; The Discovery of the Antizero and the Zero's Commutation ; The Galaxies of the Point's Sphere ; Drawings of the Arabic Numerals . While difficult enough to assess the implications of this book as a philosophical product , it certainly deserves attention from mathematicians (especially those interested in the early history of this discipline) .

CORNELIU CONSTANTINESCU ; Spaces of Measures . W. de Gruyter , Berlin , 1984 , 444 pp.

The theory of spaces of measures is a chapter of measure and integration theory , in which attention is concentrated on the properties of sets of measures . The origins of this theory can be traced back to the period between the two World Wars and are associated with the names : Orlicz - Pettis , Vitali - Hahn - Saks , Nikodym and Phillips . After the WW II , an almost explosive development took place in this field . The primary aim of this book is to collect part of this literature and to present it in a unified manner . The book contains a chapter on sub-series of convergent series , a chapter on group valued measures (σ - additive or exhaustive) on abstract and on topological spaces , and a chapter dedicated to the applications of this theory to the study of M - spaces (these spaces are the locally convex variants of the abstract AM - spaces) . This excellent book follows another one dedicated to measure theory by the same author (Springer - Verlag's Lectures in Mathematics) .

OBITUARY

Last Spring (1985) , passed away in Berkeley , California , IRINA GORUN (Mrs. Hari Bercovici) , after giving birth to a healthy baby . Irina Gorun obtained her M. Sc. degree in Mathematics from the University of Bucharest , and started research work while in Romania . She pursued graduate studies in the United States of America , and her Ph. D. dissertation was ready for defense when her death occurred . On behalf of the Romanian mathematicians in exile , we convey our sincere condolences to Dr. Bercovici for this irreparable loss .

1985 A.R.A. CONVENTION

The X-th annual A.R.A. convention has been organized from May 2 - 4 , 1985 , at the University of California at Berkeley . The President of A.R.A. , Professor Maria Manoliu-Manea , has been assisted in the organization of the meeting by the local committee headed by Professor Paola Timiras , and including the following faculty members from UCB : Professor Frances Bloland , Professor Jack Kirsch , Prof. Boris Rubinsky , Professor Elena Stamatescu , Professor Rugerro Stefanini . The Organizing Committee has been extremely successful in carrying out its task . Over 100 papers have been presented in plenary sessions , in the special sessions , or during the Symposia and Round Tables scheduled by the program . The participants came from United States of America , Canada , Mexico , France , West Germany , Switzerland , and the Netherlands .

The opening ceremony took place in the Alumni House on the UCB Campus , in which occasion the participants have been greeted by Professor Leonard V. Kuhl , Provost and Dean of College of Letters and Science , University of California at Berkeley . The President of the American Romanian Academy of Arts and Science , Professor Maria Manoliu-Manea has addressed the Convention , as well as Professor Paola Timiras . Several messages , sent to the Convention by various personalities , have been read during the opening ceremony .

In the plenary session dedicated to the celebration of the tenth anniversary of A.R.A. , Professor Nicholas Timiras has presented the paper "The Goals of A.R.A. in Historical Perspective (1975 - 1985)" . Several other interesting papers have been presented during that session .

There have been 13 sessions organized on various topics : History , Linguistics , Science and Technology , Mathematics , Romanian Culture and Civilization , Arts and Folklore , Political Sciences and Economics , Literature , Philosophy and Religion . Besides , there has been a Symposium , two Round Tables , and two Panels .

The Symposium "Secretion and Membrane Biogenesis" has been chaired by the Nobel Laureate George Palade , Professor at the School of Medicine , Yale Uni-

versity . Other participants to the Symposium ; Jonathan Beckwith (Harvard University) , Randy Schkman (University of California at Berkeley) , Regis Kelly (University of San Francisco) .

Another interesting event of the convention was the Round Table "Romania , 1985" , chaired by Professor Andrew Janos from the University of California at Berkeley . Daniel Chirot , from the University of Washington , Seattle , WA , Vlad Georgescu , from the University of Maryland , Munich Branch , and Radio Free Europe , and Kenneth T. Jowitt from the University of California at Berkeley were the participants to this Round Table .

A second Round Table has been organized under the chairmanship of Professor Maria Manoliu-Manea , dedicated to "The Fate of Romanian Intellectuals , 1948 - 1984" . This event has been supported by L.M.Arcade (Paris) , Matei Calinescu (Bloomington , Indiana) , Andrei Codrescu (Baton Rouge , Louisiana) , Ion Negoitescu (Munich , West Germany) , and Virgil Nemoianu (Washington , D.C.) .

The last Panel discussion , which concluded the program of the meeting , was dedicated to "Academia Mihaileana : 150 years of Higher Education in Romanian" . The Panel has been chaired by Professor Constantin Corduneanu , from the University of Texas at Arlington . Dr. Alexandru Bratu from New York , a former student of the University of Iași , who also spent two years as an Assistant with the Law School at that university , has evoked interesting aspects from the social atmosphere of the academic community of Iași , during the 1930's and early 1940's . He emphasized the struggle of democratic elements among students and faculty , toward achieving a democratic atmosphere within the community . Dr. Paul Pechiu , from Fremont , California , a former student at the University of Iași (Physics) , has spoken about the evolution of teaching and research at the Academia Mihaileana and then the University of Iași , in the field of Sciences . The text of the presentation made by Professor Constantin Corduneanu will be inserted , in a concised form , in this volume .

Several artistic and social events have been organized during the Convention . Thursday evening (May 2nd) , a screening of one of the most famous movies directed by Jean Negulesco , "How to Marry a Millionaire" - starring Marilyn Monroe - has been scheduled . Jean Negulesco answered questions from the audience and autographed his recent book "Things I did and Things I think I did" . On Friday , May 3rd , on the occasion of ARA Annual Banquet held at the UCB Faculty Club , a team under the guidance of Professor Frances Sunni Bloland from UCB has performed Romanian Folk Music and Dances . With great success ! An after-banquet

informal "Get together" has been called by Sunni Bloland at her residence in Berkeley : "Casa Romanilor" , full of Folklore , Folkcrafts , and Folkart . The reception marking the end of the tenth convention of ARA has been offered by Professors Paola and Nicholas Timiras , at their residence in Berkeley .

The session dediacted to mathematical papers has been scheduled on Friday , May 3rd , from 8:30 a.m. - 12:30 p.m. , and has been chaired by Professor M.A. Rosenlicht , the University of California at Berkeley . The program of this session has featured the following talks :

1. Results in ultimate behavior of solutions of equations with infinite delay (Constantin Corduneanu , University of Texas at Arlington) .
2. A new algorithm for the computation of the geodetic coordinates as a function of earth-centered earth-fixed coordinates (Lawrence Lupash , La Habra , California) .
3. Une méthode d'integration numérique d'un système canonique d'équations différentielles (Ilie Popescu , Université de Québec à Hull , Canada) .
4. Haretu's contribution to the n-body problem (Tudor Rațiu , University of Arizona at Tucson , and University of California at Berkeley) .
5. On stability properties which are equivalent to Riemann hypothesis (V. M. Popov , University of Florida at Gainesville ; paper read by C. Corduneanu) .

The papers presented at the meeting , in the Mathematics session , are inserted in this volume of *Libertas Mathematica* .

Among the participants to the Mathematics session , we remarked the presence of Dr. Andrei Ocneanu who is temporary associated with the University of California at Berkeley , Dr. Mircea Rațiu , Dr. Mircea Fotino , University of Colorado at Boulder , Mr. Ion Cepoi , Dr. Cornel H. Petrassevich .

Besides the events mentioned above , the X-th A.R.A. convention has featured several other academic activities , such as the General Assembly of A.R.A. , visits to various units of the University of California at Berkeley , including a visit to the Mathematical Sciences Research Institute (MSRI) .

The General Assembly of A.R.A. has reelected Professor Maria Manoliu - Manea as President for the next three years . Professor Nicholas Timiras has been reelected as Vice-President , and Dr. Miron Butariu has been reelected as Secretary-Treasurer . Professors Constantin Corduneanu and Mircea Fotino are on the list of A.R.A. counsellors for Science .

DAN BARBILIAN (1895 - 1961)

Dan Barbilian - the mathematician - was widely known to the Romanian public under his pen name Ion Barbu . He was born on March 19 , 1895 , in Campulung Muscel , Romania , from the parents Constantin Barbilian and Smaranda Şoiculescu . His father was a magistrate (kind of a justice of peace) , while the mother was the daughter of a district attorney .

Dan Barbilian follows his family in various towns , where he goes to school with all the children of his age . But when he reaches the age to start high school (1910) , his family sends him to Bucharest . He attends classes two years at the "Lazar" Lyceum , and two more years at the "Mihai Viteazu" Lyceum . In 1912 , he wins a national competition organized by "Gazeta Matematica" for high school students . Simultaneously , he manifests strong interest in poetry , and poems by the French author Baudelaire (Les Fleurs du Mal) seem to make his delight . He passes the baccalaureate in Bucharest , in 1914 , having as President of the examining committee the famous Romanian mathematician Gheorghe Tzitzeica . In the Fall of 1914 Dan Barbilian became a student with the University of Bucharest , where he pursues studies leading to a degree in Mathematics . Because of the WW I , and the inevitable interruptions , Dan Barbilian will complete his studies only in 1921 . But meanwhile , he attends military institutions , and more important , makes his debut as a poet in 1918 .

In 1921 , being the beneficiary of a fellowship obtained primarily through the influence of his professor at the university - Gheorghe Tzitzeica - Dan Barbilian leaves Romania for Göttingen , in view of obtaining a higher degree in Mathematics. Even though the Department of Education in Bucharest decided to cancel his fellowship two months after his departure from Romania , Dan Barbilian succeeds to continue his stay in Germany , due to the support provided by his family. But his interests in poetry seem to prevail on those in Mathematics , and in 1924 he returns to Romania without obtaining a Ph. D. , as projected . While in Germany , the literary publications in Romania continue to publish his poems . The most demanding literary critics recognize in Ion Barbu (Dan Barbilian) one of the

greatest poets in the Romanian literature . He continues the literary preoccupations with increased vigor , while making his living as a Mathematics teacher in various high schools , and marrying Gerda Hossenfelder - his sweet-heart from Germany .

In 1926 Tzitzeica has appointed Dan Barbilian as an Assistant , and simultaneous to his poetic activities Dan Barbilian finds time to write his Ph. D. thesis on "Canonical representation of the addition of hyperelliptic functions". In 1929 he obtains a Ph. D. in Mathematics from the University of Bucharest , an event which opens his way toward a career in the Academe . He decides to renounce his teaching job at high school level , being from now on totally dedicated to his academic career , and to his poetic activities . In 1930 , one of the most original work by Dan Barbilian , Joc Secund (Second Play) comes out , and the most influential literary critics in Romania unanimously agree that Barbilian's creation is a landmark of the Romanian literature .

In 1932 wins a competition at the University of Bucharest and becomes an Associate Professor in charge with courses of Elementary Mathematics and Descriptive Geometry . Barbilian finds a challenging task in studying Gauss , Riemann , and Felix Klein (in connection with his teaching duties) . During the 1930's is actively involved in Mathematics research , travels abroad attending several congresses , and lecturing in Hamburg , Göttingen , Vienna , Münster - Westfalia , and other places . In 1942 , at the age of 47 , Dan Barbilian wins another academic competition , which qualifies him as a Professor of Algebra at the University of Bucharest . He will be on this position until 1961 , the year of his death of a cancer illness .

In the volume "20th Century Culture" edited by Alan Bullock and R.B.Woodings (Harper and Row , Publishers , New York , 1983) , the name of Ion Barbu (Dan Barbilian) appears besides those of the greatest figures of contemporary culture . "An unusual example of a person with two vocations , Barbu made his debut as a poet in 1918 , and became Professor of Algebra in 1942 . His early verses were in the Parnassian mould . Between 1920 and 1925 his compositions are distinguished by their Turkish atmosphere , the poet offering brilliant cameos of Balkan life . After 1925 he applied a mathematical vision of the world to his verse which became cryptic and hermetic Barbu's preoccupation with analogies between poetry and Mathematics produced a verse characterized by mathematical metaphor , by the symmetrical regularity of stanzas , and yet where striking

sonority and musicality prevail . To the geometry of his form Barbu added a vast range of analogies , associations of ideas and references to facts or persons which are sometimes the product of his imagination , thus transforming his verse into a cryptic message , one made more private by the use of incongruous expressions and scientific terms with the value of metonymies " .

It is interesting to quote from Barbu's writings , in regard to the relationship in between mathematical and poetic creativity : "I have higher consideration for me as a practioner of Mathematics , than I have as a poet ; and this only to the extent the poetry reminds of Geometry Like in Geometry , I understand by poetry a certain symbolism for the representation ov various forms of existence . The realm of the dream is vast , and always interesting for exploration . This is the way I understand the superrealism , which in our case becomes an infrarealism " .

After 1948 , when the communist takeover of Romania was almost complete and invaded brutally practically any field of creativity , the poetry of Ion Barbu has been banned . He could reenter the official world of poetry only by making serious compromise with himself , with his previous poetic personality . His last poem appeared in 1956 , and it was dedicated to a revolutionary figure of Romanian history ("Balcescu Traind" , "Balcescu alive") . Gradually , his role in Romanian letters has been reestablished , and several editions of his work have been printed lately (see "From the Bookshelves" in this volume) .

During the last fifteen years of his life Ion Barbu (Dan Barbilian) has spent most of his cretive effort in Mathematics .He has taught very advanced topics in modern Algebra and Number Theory , and mathematicians like Mihail Benado , Aristide Halanay , Liviu Solomon and Alexandru Solian have been inspired by Barbilian's teaching and research . In the 1950's he publishes the "Teoria Aritmetica a Idealelor" at the Publishinh House of the Romanian Academy , and is awarded one of the Academy's prizes for his contribution to this field of research .

A recent book , by A. Cioranescu , has been dedicated to the work and life of Ion Barbu (New York , 1981 ; in English) .

"ACADEMIA MIHAILEANA" AND THE UNIVERSITY OF IAȘI
(150 years of Higher Education in Romanian)

150 years ago , during the first five months of the year 1935 , intensive preparations were taking place in Iași , in view of the official inauguration of the "Academia Mihaileana" - the first institution of higher learning not only in Moldavia , but on the whole territory of Greater Romania (as it was known past 1918) , in which the Romanian was used as the teaching language . The seal of the "Academia Mihaileana" is dated 1834 , and actually everything has been prepared during that year , under the guidance of Gheorghe Asachi , in view of the opening of the new institution . Unfortunately , the project for the renovation of the buildings designated to become the main facilities of the Academy has been delayed a few months , a circumstance that made possible the official ceremony only on June 2 , 1935 . The Prince of Moldavia , Mihalache Sturza , who actually gave the name of Academia Mihaileana , was present at the festivities , as well as the Metropolitan of Moldavia Veniamin Costachi - an erudite scholar of those times . Various diplomatic representatives in Iași have also participated to the ceremony , not to mention most of the intellectuals living in Iași at that time , including Gheorghe Asachi . This moment has constituted the peak of a lengthy process primarily fueled by Asachi and other intellectuals , aimed at raising at a higher level the schools of the Principality of Moldavia , in accordance to "the level of the enlightened Europe" , as Gheorghe Asachi said in his speech at the opening ceremony of the "Academia Mihaileana" .

It is true that within the Greek Academy of Iași , Gheorghe Asachi has organized a special department which produced the first survey engineers in 1818 , and whose education and training were carried out in Romanian . This was certainly a very promising beginning . Unfortunately , due to the social circumstances prevailing in Moldavia during those years , the program initiated by Asachi had to be shortly cancelled , the introduction of the Romanian as teaching language being only temporary .

The new institution was aimed at producing the necessary technical and ad-

ministrative specialists , which were so necessary to a contry in rapid process of modernizing its structures . Recent findings in regard to the beginnings of Academia Mihaileana (see Bordeianu & Vladcovschi) show that the new institution was preparing specialists in Philosophy (which, according to the patterns of that period included also the Sciences) , Philology (Romance , French , Greek and Latin , Russian) , Law , Divinity , and Engineering . From the very beginning , the Academy has been endowed with competent teachers , among which we notice the presence of the Transylvanian Romanians Eftimie Murgul , Damaschin Bojinca , Vasile Fabian , Christian Flchtenmacher , a Czech who studied at Heidelberg before he has chosen to live in Moldavia as a M.D. - Iacob Cihac - , a Russian by name Singurov , as well as the local people like Gheorghe Saulescu , Vasile Peltechi , or Ion Ghica - a Romanian from Wallachia . Later on , personalities of outstanding stature , such as Mihail Kogalniceanu , have joined the faculty at Academia Mihaileana . As we know , many beginnings have been made at Academia Mihaileana , beside the current usage of Romanian in teaching . For instance , the first treatise in Romanian on World History has been published in Iași by Gheorghe Saulescu . Dimitrie Asachi , the son of Gheorghe , and himself a student of Academia has published the first treatise on Topography in Romanian . He has also been one of the first Romanians with original contribution to Mathematics . But if we would refer only to the first course , ever taught , on National History given by Mihail Kogalniceanu , for whom the idea of the unity of Romanians within the perimeter of Dacia was so precisely formulated , it would be certainly sufficient for emphasizing the role of the Academia Mihaileana in the Romanian culture and civilization .

The Academia Mihaileana could not survive a long period of time , due to very difficult social and political conditions that characterized the life of most European countries toward the middle of the past century . The Prince who supported the foundation of the Academy , Mihalache Sturza , decided its closing 1847 - twelve years after its opening . Nevertheless , the action has been considered as having temporary validity , and preparations for the reopening of the Academy followed soon . As early as 1848 , Mihalache Sturza issues a decree in which he recommends the reopening of the Academy (more precisely , of the classes pertaining to the higher level , since the lower level classes never stopped functioning) . In 1855, the Schools Board is instructing the Department of Education in view of the immediate reopening of courses at the Academy . The "Academic spirit" was so vivid in Iași , and the former students of the Academia Mihaileana

were holding very influential jobs with the State of Moldavia , that the Law Faculty reopened the courses in the Fall of 1856 . The Faculty of Philosophy followed next year . New professors have been hired , besides those who practically never stopped their academic activities in Iasi , and who taught earlier at the Academia Mihaileana . We will mention Simion Barnutiu and Alexandru Papiu Ilarian .

In 1959 , the long lasting effort of the Romanian patriots from both Moldavia and Wallachia (or Muntenia) is crowned with an outstanding achievement : the Union of the Romanian Principalities . One year later , in 1860 , the former professor with Academia Mihaileana Mihail Kogalniceanu is the Prime-Minister of the Romanian United Principalities . Together with the Prince Alexandru Ioan Cuza , Kogalniceanu signs the decree of foundation of the University of Iași . The Faculties belonging to the Academia became - after certain adjustments - Faculties of the University of Iași . The Faculty of Philosophy is splitted into Faculty of Letters and Philosophy , and the Faculty of Sciences . The Faculty of Law is incorporated as it was within the Academia , and the new Faculty of Divinity is added . Of course , professors and students from the preexisting faculties became associated with the new institution , so that in 1861 the University of Iași was able to grant its first degree in Law . The passage from the old institution of higher learning to the new one was smooth , even though a new beginning is always accompanied of difficulties . When the Professors' Council wanted to elect a President (Rector) of the newly created institution , most members had in mind one of the most prestigious colleague : Simion Barnutiu , who came from Transylvania a few years earlier , and who first served in the Academy . But Barnutiu declined the honor , motivating by the fact that he is not yet a Romanian citizen (he was at that time a subject of the Austrian Empire) . Ion Strat , a young professor at the Law Faculty has served as the first Rector of the University of Iași .

In 1935 , the University of Iași has celebrated its first Centennial . For a while , the University of Iași took the name of Universitatea Mihaileana , a fact marking the continuity of existence for both institutions : Academia Mihaileana and the University of Iași . A historian like A.D.Xenopol , himself a professor of the University of Iași , and the first Romanian to become a member of the prestigious Académie Française , considered the Academia Mihaileana as the first institution of higher learning in Romania , and the first form of existence of what became the oldest Romanian University . Anyhow , it is unanimously established that the founadtion of the Academia Mihaileana , and 25 years later that of the Univer-

sity of Iași , had both very fruitful impact on the Romanian culture and science .

Therefore , it does not appear completely senseless the decision taken by the Romanian authorities to celebrate again the Centennial of the University of Iași , this time in 1960 . The significance of Academia Mihaileana is recognized in the first volume of the "Istoria Universitatii din Iași , 1860 - 1960) , but in order to motivate the second edition of the Centennial , there have been some attempts to minimize the role played by Academia Mihaileana as the first institution of higher learning in Romanian , even contesting the character of being in fact such an institution . If we had been more careful with our cultural heritage , a feature rarely encountered during the period that has been called in Romania "Sovromcultura", the second edition of the Centennial should not have been planned . If we look closely to the history of rather famous institutions of higher learning , we can see that some of them have repeatedly changed name and location during the first part of their existence , they had long periods of interruption of their activities , without considering at any moment that their existence has ceased .

But looking more realistic at the situation of higher learning in Romania during the period around 1960 , we have to admit the fact that the administration and the faculty did not want to loose a good opportunity in adding something to the modest endowment of their university : finishing the main building of the university which has been left unfinished during the 1930's , obtaining some new equipment for the laboratories , a better supply for the university libraries , construction of student hostels , etc . At the same time , we should notice the communist regime wanted to use the celebration for propaganda . This fact appears particularly hideous if we look at the publications issued in occasion of the 1960 Centennial : "Istoria Universitatii din Iași , 1860 - 1960 " , and particularly "Anuarul Universitatii din Iași , 1939 - 1959 " . Undoubtedly , the materials inserted in these publications have been elaborated under the direct guidance of the communist party of Romania , which at that time was exerting a brutal pressure and control on the intellectuals , very often using the intimidation .

"Anuarul Universitatii din Iași , 1860 - 1960 " has deliberately omitted the names of those professors who have been "rationalized" (read ousted) by the communist regime , during the first years of communist power . The names omitted can be classified in three categories : 1) Those belonging to former professors killed by the communists in Jail (for instance , Gheorghe Bratianu , a former professor of History and awell known political leader of democratic regime over-

trown by the communists) ; 2) Those jailed for long terms , sent to camps of forced labor,who have survived the ordeal (for instance , Ioan Petrovici , a professor of Philosophy , and a former Secretary of Education in Romania , or Alexandru Claudian , a professor of Logic) ; 3) Those who have been dismissed from their jobs by the communists , and who were among us at that time , but did loose the right of teaching students or publishing the results of their research work (in this category we mention the professor of Slavic Studies and Etnogrphy , Petru Caraman , and the erudite specialist in educational problems Stefan Barsanescu) . The story of Caraman is highly instructive for the way the communists treat the intellectuals . Caraman was a highly respected member of the University Senate in 1946 , and as a prominent scholar in the field of Slavic Studies he addressed the Senate on the problems of territories annexed by Soviet Union in the post WW II period (Basarabia and Northern Bucovina) . Using only Russian sources , Caraman defended his claim that Soviet Union does not have any historic rights on those territories , which are still populated in majority by Romanians . The Senate meeting was not yet over , and the former Rector of the University of Iași (later on he also became Rector of the University of Bucharest) called the security police (equivalent of the KGB) . Starting next day , Caraman has been deprived of his position , he could not publish his papers for a period of over 25 years , has been interrogated by the KGB , and submitted to all kind of harassment and intimidation .

The two volumes of the collective work "Istoria Universitatii din Iași , 1860 - 1960" are also abundant in falsified data , lack of elementary objectiveness with respect to the events described in their pages , again omissions of the name of persons who played a significant role in the history of the university , and even going so far as neglecting to refer to whole faculties or departments . A typical omission is that regarding the Faculty of Divinity . After the WW II , this Faculty has been abolished . It did function in Chișinău (Basarabia) for a period of time , in between the WW I and WW II , and was one of the most populated faculties of the University of Iași . Among its professors one counts Gala Galaction - a classic of the Romanian literature , and Petre Constantinescu - Iași (History of Religious Arts) , who was an underground communist and later became one of the noted personalities of the communist regime of Romania . But the volumes of "Istoria Universitatii din Iași , 1860 - 1960 " do not mention this faculty , excepting in some statistics . Moreover , Petre Constantinescu - Iași , who for obvious reasons could not be omitted from those volumes , appears as a

faculty member with the Department of History , which was not true , his affiliation being with the Faculty of Divinity . It is again highly instructive to compare what happened to Petre Constantinescu - Iași after he has been dismissed from the university by the Department of Education (in the late 1930's) for his communist activities , with Caraman's story . Due to the autonomy of the university , a group of professors including Iorgu Iordan and Petru Caraman has taken the case to the highest authorities and won their case : Petre Constantinescu - Iași has been reinstated to his job . In 1946 , when Caraman tried to defend the rights Romania has on Basarabia , in a purely academic manner , his dismissal by the communist authorities was permanent .

It is obvious why the volumes dedicated to the Centennial of the University of Iași in 1960 do not contain such cases , and instead of contributing to the real History of the university , they are totally misleading in this respect .

The year 1985 is the year of the sesquicentennial of Higher Education in Romanian . And the first institution of higher learning which has used the Romanian language in teaching is still in being : the University of Iași . It is the best occasion at hand for the Romanian intellectuals , and primarily for those who have been connected at some time with the University of Iași , to start correcting the errors that have been perpetrated in regard to the history of this venerable institution .

Note . This article is based on a material presented by Constantin Corduneanu at the X-th Convention of the A.R.A. , Berkeley , California , May 1985 .

The following sources have been available :

- 1) Anuarul Universitatii din Iași , 1939 - 1959 (Yearbook of the University of Iași , 1939 - 1959)
- 2) Istoria Universitatii din Iași , 1860 - 1960 (History of the University of Iași , 1860 - 1960)
- 3) Inceputurile Invatamantului Superior in Romania , by Dr. Victor Gomoiu , in "Buletinul Institutului de Stiinte al Romaniei , no.6 , 1940 .
- 4) Mihai Bordeianu , Petru Vladcovschi : Invatamantul Romanesc in date . Junimea , Iași , 1979 (contains details about the first programs implemented at Academia Mihaileana) .

I. M. S. E. 1985

From March 18 - 21 , 1985 , the University of Texas at Arlington has been the host of the International Conference dedicated to "Integral Methods in Science and Engineering" . The conference has been sponsored by the Colleges of Engineering and Science , The Research Center for Advanced Study , and the American Society of Mechanical Engineering .

More than 70 participants , coming from 7 countries , have presented papers , including five invited addresses that have been delivered in plenary sessions : Dr. Hans Mark , Chancellor of the University of Texas System , has spoken in the opening session of the conference , delivering the keynote address . Professor Charles A. Desoer , from the University of California at Berkeley has given his invited address on the topic "Algebraic Theory of Convolution Feedback Systems" . Professor Angelo Miele , from Rice University at Houston , has presented the invited address "Primal-Dual Properties of Gradient Restoration Algorithms for the Optimization of Dynamic Systems" . Professor John A. Nohel , University of Wisconsin at Madison , gave the invited address "Motion of Nonlinear Viscoelastic Materials with Memory" . Professor J. T. Oden , from the University of Texas at Austin , has given the invited address "Adaptive Finite Elements in Computational Fluid Dynamics" . There have been almost twenty sessions and two minisymposia on various themes . Social events , including a banquet and a visit to Fort Worth , have been scheduled during the conference .

Professor Fred R. Payne , from Aerospace Engineering , was the Chairman of the organizing committee . He has been helped by the members of the committee Professors J. J. Stanovsky (Aerospace Engineering) , T. Huang (Civil Engineering) C. Corduneanu (Mathematics) , A. Hadji - Sheikh (Mechanical Engineering) and Mr. R. Matus (Aerospace Engineering) .

The volume with the proceedings of the conference is now in print at Hemisphere Publ. Co. , and should be ready for distribution in early 1986 .

There have been three participants among the mathematicians and engineers of Romanian extraction : Professor Adriana Nastase from the Technical University in Aachen (West Germany) , Dr. Christian Constanda (University of Strathclyde , Scot-

land) , and Professor Ion Paraschivoiu (Ecole Polytechnique de Montreal,Canada).

We reproduce here short abstracts of the paper given at the conference by Professors Adriana Nastase and Ion Paraschivoiu . The paper given by Dr. Christian Constanda is published in full in this volume .

Adriana Nastase : Wing Optimization and Fuselage Integration for Future Generation of Supersonic Aircraft

Previous theoretical considerations of the author , in good agreement with the experiments , lead to the conclusion that the drag of of a supersonic air - craft can be very much reduced if the conventional wings are replaced with fully-optimized delat wings (also called optimum-optimorum delta wings) . A fully-optimized wing is such a wing for which all its geometric characteristics , i.e. its distribution of camber , twist , thickness , and also the shape of its planprojection are simultaneously optimized in such a manner to obtain a minimum drag . The design of a fully-optimized delta wing implies the solving of two mathematical problems . The first problem consists in the determiantion of the solution of a three-dimensional boundary value problem for the axial disturbance velocity . The second problem means the solution of an extended variational problem for the drag functional C_d , which consists in the simultaneous determination of the wing surface , say $x_3 = Z(x_1, x_2)$, and of the similarity parameter of the planprojection of the wing , in such manner that the drag attends its minimum (for a given cruising Mach number M_∞) . Methods due to P. Germain and E. Carafoli are used in this paper , in order to obtain the solution of the problem in closed form . If entire aircraft is considered a "fully-optimized integrated wing-fuselage" is proposed . By means of such design procedures , the drag can be considerably reduced , and the resulting model can be proposed for future generation of supersonic aircraft .

Ion Paraschivoiu : Three Computer Codes for Studying Darrieus Wind Turbine Aerodynamics

An analytical model was developed since 1981 at the "Institut de Recherche d'Hydro-Quebec" (IREQ) for predicting the aerodynamic blade forces and rotor performance on the Darrieus wind turbine with straight and curved blades . The method considers the swept volume of the rotor divided into a series of adjacent pair of actuator disks in tandem . The model is capable of accounting for the difference in the flow field between the upwind and downwind half-cycles of the turbine . Performance/load calculations were made on the basis of the local Reynolds number

and the local angle of attack . Three computer code variants of this model are available at IREQ for studying the Darrieus turbine . The major difference between the various calculations is due to the assumptions and the means of determining the induced velocities through the rotor . For a given rotor geometry , the induced velocities can be predicting by using constant interference factor (CARDAA computer code) or by specifying variable interference factors as a function of the azimuthal angle (CARDAAV) . Recently , the original model was improved by including the streamtube expansion effects on the Darrieus wind turbine , using the CARDAAX computer code .

*
* *

A N N O U N C E M E N T

The XI-th A.R.A. Annual Convention will be hosted by the University of Colorado at Boulder . The Chairman of the local Organizing Committee is Professor Mircea Fotino , with the Physics Department at that school .

As in the past two editions of the annual convention of A.R.A. , we are planning a Mathematical Session . We kindly invite our colleagues who are able to attend the Convention to send the title of their communications to Professor Fotino , as soon as possible .

If possible , we would like to suggest that papers to be given at the Convention be reserved for the Volume VI (1986) of Libertas Mathematica . We are planning to dedicate the VI-th volume of the journal to the memory of four illustrious Romanian mathematicians : Grigore Moisil , Gheorghe Mihoc , Tiberiu Popoviciu and Mendel Haimovici . All of them have been born in the year 1906 . Would they be alive , their 80-th anniversary should take place in 1986 .

The date at which the Convention will take place is expected to be about middle of May , 1986 .

THE 1985 ANNUAL MEETING OF THE AMERICAN MATHEMATICAL
SOCIETY , ANAHEIM , CALIFORNIA

The 1985 Annual Meeting of the American Mathematical Society was held in Anaheim , California , from January 9 - 13 , 1985 . Actually , this meeting was a joint meeting with the Mathematical Association of America , the National Association for Mathematicians , the Association for Symbolic Logic , and other professional bodies . The numerous sessions of the meeting took place in the Anaheim Convention Center , a modern facility located just across the street from the famous Disneyland . More than 500 papers have been included in the program of this meeting , besides other activities such as Short Courses dedicated to various topics of current interest to mathematicians . There have been several plenary sessions , sessions of contributed papers , and a good deal of Special Sessions dedicated to such subjects as Celestial Mechanics , Analytic Number Theory , Ordinary Differential Equations , Finite Group Theory , Stochastic Differential Geometry , Algebraic Combinatorics , Differential Geometry , and many others .

The participants among the mathematicians of Romanian extraction have been in number of ten , as follows : Constantin Corduneanu , Nicolae Dinculeanu , Ion (John) Fagarașanu , George Lusztig , Magda Peligrad , Dan Pascali , Alexandru Solian , Andrei Verona , Maria Zamfir , and Tudor Zamfirescu (Visiting from West Germany) . Petru Papadopol was also on the meeting's program but last moment circumstances prevented him from taking part .

The following presentations have been made during the meeting by participants from the above list : Constantin Corduneanu (Ultimate behavior for equations with infinite delay) ; Nicolae Dinculeanu (Weak compactness in the space H^1 of martingales) ; George Lusztig (Exceptional class functions , a fifty minutes invited talk) ; Alexandru Solian (A categorical analogue of Z_n) ; Tudor Zamfirescu (Typical convex curves on convex surfaces) .

A very pleasant evening at the residence of John Fagarașan has united almost all the participants of Romanian extraction . Mr. Fagarașanu holds degrees in Mathematics from the University of Bucharest and from UCLA and is employed in the

industry (Los Angeles Area) . His parents , Mrs. and Mr. John Fagaraşan Sr. from Los Angeles , have participated that evening , contributing very successfully in creating a Romanian amiable atmosphere .

A major event during the Anaheim meeting of the American Mathematical Society was the award made by the Society of the 1985 Cole Prize to GEORGE LUSZTIG , of the Massachusetts Institute of Technology .

The Cole Prize in Algebra is awarded every five years , for a notable research memoir in Algebra which has appeared during the previous five years . The Prize has been founded in honor of Professor Frank Nelson Cole on the occasion of his retirement as secretary of the American Mathematical Society after twenty five years , and as editor in chief of the Bulletin for twenty one years .

Citation : To GEORGE LUSZTIG for his fundamental work on the representation theory of finite groups of Lie type . In particular , it is awarded for his contributions to the classification of the irreducible representations in characteristic zero of the groups of rational points of reductive groups over finite fields , appearing in *Characters of Reductive Groups over Finite Fields* , Annals of Mathematics Studies 107 , Princeton University Press , 1984 .

Biographical Sketch : George Lusztig was born on May 20 , 1946 , in Timişoara , Romania . He received a Master's degree from the University of Bucharest in 1968 , and both M.A. and Ph. D. degrees from Princeton University in 1971 . From 1969 to 1971 , Lusztig was a visiting member at the Institute for Advanced study in Princeton , New Jersey . He has also been a research fellow , lecturer , and Professor at the University of Warwick , in Coventry , England (1971 - 1978) . In 1978 , he became Professor of Mathematics at the Massachusetts Institute of Technology , Cambridge , MA.

Lusztig has given several AMS addresses : at the 1977 Summer Research Institute on Automorphic Forms ; at the Symposium on the Geometry of Laplace Operator in Hawai (1979) ; at the Special Session on Cohomology and Representations of Algebraic Groups (San Antonio , 1980) . He has been an invited speaker at the International Congress of Mathematicians in 1974 and 1983 .

Lusztig was a Guggenheim Foundation Fellow in 1982 , and was elected a Fellow of the Royal Society in 1983 .

On behalf of all fellows mathematicians of Romanian extraction , we congratulate Lusztig for this outstanding achievement in Mathematics .

TEN YEARS SINCE THE ABOLITION OF THE
MATHEMATICAL RESEARCH INSTITUTES IN ROMANIA

In April 1975 , after a continuous existence of more than a quarter of a century , the Mathematical Research Institutes with the Romanian Academy have been abolished by presidential decree (see *Libertas Mathematica* , volume I , 1981 where details have been given in relation to that event) . The Mathematical Institutes in Bucharest , Cluj and Iași , as well as a research group in Timișoara , practically ceased their existence overnight , with great damage for the Romanian mathematical community . More than 100 researchers , who have been trained , and in some cases spent a good deal of their active life as researchers , had to renounce their jobs , or to accept employment not commensurate with their capabilities and performances . About half of those who held jobs with the Mathematical Research Institutes have fled Romania , in most of the cases illegally , and are now conducting academic activities outside Romania (see the list of mathematicians of Romanian extraction in this volume) . An attempt to dilute the consequences of this irresponsible action has been made by creating a research group with the INCREST - Bucharest , which is under the "protection" of the presidential family . Besides the grotesque of such a deal , it is adequate to notice that most of the researchers who sought initially "protection" at INCREST , have finally decided to join those colleagues already self-exiled .

While the European countries surrounding Romania have strengthened their mathematical research , by adding new facilities , increasing the number of the research people , and expanding the number of pages in existing journals or adding new titles , Romania has taken an opposite turn . The number of research mathematicians has considerably diminished , the *Revue Roumaine de Mathematiques Pures et Appliquees* has drastically reduced the number of pages and the quality , not to mention the publications supported by the institutions of higher learning that appear irregularly (if they do appear , yet) , and usually in downgraded format .

Let us also notice that the Mathematical Science Research Institute in Berkeley , as well as the Institute of Mathematics and Applications in Minneapolis , are making remarkable progress , increasing gradually their impact on the mathe-

mathematical life in this country and abroad . In an interview released to the California Monthly (June-July , 1985) , Professor Calvin Moore states : "We began full operation in the fall of 1982 . MSRI is modeled on the Princeton Institute for Advanced Study , but with an important difference : they have private funding , whereas we are on federal funding with a five-year cycle The idea of the Institute is to set up a place where mathematicians can have an extended period of time to devote solely to their research , free of other responsibilities . A mathematician needs a number of things , and we tried to design the Institute to provide these things . A mathematician needs first of all a place to be alone, to sit down and work on very hard , detailed problems . However , a mathematician also needs the stimulation of others , so we designed the building that as soon as you leave your office , you are forced to run into other people " . If we take also into account the fact that on the campus of the University of California at Berkeley , where the MSRI is located in a newly built edifice , there is one of the best mathematical libraries available in this country , we can easily understand the efficiency of the new institutions in promoting advance research in the field of mathematical sciences .

The way the Mathematical Institute in Bucharest has been organized , it was adequate to fulfil a similar function for the Romanian mathematicians , as the Berkeley Institute in this country . Unfortunately , its abolition has not followed by measures stimulating the mathematical research in Romania . On the contrary , further measures have been taken to restrict the efficiency of the research work .

Briefly , we can conclude that the X-th anniversary of the abolition of the mathematical research institutes in Romania is indeed a very sad event .

*

* *

We have recently learnt about the death of Professor DUMITRU V. IONESCU , from the University of Cluj . He passed away last year , while being Emeritus . He was a student of Goursat in Paris , during the 1920's , and has been associated with the University of Cluj for almost his entire active life . He served as a Dean of the Faculty of Sciences , and for a long period of time he has been the Chairman of the Department of Differential Equations . He had numerous students , and published several highly appreciated textbooks , besides his research papers .

MIHAI BOTEZ

Among the Romanian intellectuals who openly oppose the policy of the Romanian communist party , MIHAI BOTEZ seems to be the only scientist with an established reputation in Romania and abroad . Botez distinguished himself as an active and successful researcher in Systems Theory , Scientific and Technological Forecasting , Mathematics applied to Social Sciences . Besides , he has a solid humanistic culture , and actively participated in many innovative actions of a handful of young intellectuals from Bucharest . I had many opportunities to see him , to discuss various professional subjects , to travel abroad (England) in his company . Unlike many other colleagues of his generation , including several close friends , Mihai Botez decided not to quit Romania and pursue his career abroad . After all , his credentials are remarkable , he is on the editorial board of the international journal "Technological Forecasting and Social Change" , and finding an adequate job elsewhere would not have been a problem for him . Instead , Mihai Botez has chosen the uncomfortable life of a dissenter , or using his own terms , he has chosen "to struggle for his rights of a citizen who does not applaud the political power" . He has addressed the Romanian Government in several open letters , some of them broadcasted by Radio Free Europe , asking for the most elementary civil rights for himself and for others , rights that are systematically infringed by the communist regime .

How did Mihai Botez pay for his curageous attitude ? Besides more or less typical harassment applied by the Romanian authorities to dissenters , Mihai Botez has been last Fall the victim of a very aggressive assault . At night , in the darkness in which Bucharest is usually plunged (allegedly for saving energy) , unknown persons (certainly affiliated with the "Securitatea" police) have severely beaten him , insulted him in unspeakable terms , accused him of being a "traitor" .

We ask colleagues and friends , all persons who despise the dictatorship and its abominable consequences , to send their messages of solidarity and empathy at the address : Dr. MIHAI BOTEZ , Strada Academiei , Nr. 14 , BUCHAREST .

P E R S O N A L I A

Professor Nicolae Dinculeanu from the University of Florida at Gainesville is 60 years old this year . Professor Dinculeanu has received his degrees at the University of Bucharest , and has been associated with this institution as a student and faculty for 30 years . Since 1976 Professor Dinculeanu is in the United States of America , pursuing his teaching and research activities . His research work was mainly concerned with measure and integration theory , a field in which he has published two well known books : Vector Measures (Pergamon Press, 1967) and Integration on Locally Compact Groups (Noordhoff , 1974) . These books had also Romanian and German editions . Besides , Professor Dinculeanu is the co-author of a very successful textbook on Mathematical Analysis (jointly with Miron Nicolescu and Solomon Marcus) . After he left Romania , the new edition of the textbook did not mention his name as an author . He has also authored an elementary textbook on Calculus for the use of high school students in Romania . The textbook was in use for several years , and has been retired from circulation after his departure from the country . During the 1960's , Professor Dinculeanu held the position of Deputy Director of the Mathematical Institute of the Romanian Academy , in Bucharest .

Professor Ciprian Foiaş from Indiana University , Bloomington , Indiana , has participated in July - August 1985 at the research activities organized by the Los Alamos National Laboratories , New Mexico . During September 1985 , Ciprian Foiaş will carry out research activities at the University of Paris VI , France .

Professor Ilie Popescu from the University of Quebec at Hull , has attended the Conference organized by the AFCET (Association Française de Cybernetique Economique et Technique) . The conference has been held in Marseille , France .

Professor George Isac from the College Militaire Royal de Saint-Jean , Canada , has participated in various meetings and research activities in Europe . He has attended the Conference dedicated to Fermat , on Optimization and Calculus of Variations . The Conference has been hosted by the University of Toulouse , France .

Dr. Aurel D. Petrescu from Bucharest has written to the Editor of *Libertas Mathematica* in connection with his interests in the applications of Mathematics in Chemistry , Biology and Medical Sciences . Dr. Petrescu holds degrees in Pharmaceutical Sciences , in Engineering , and Chemistry . He has sent a paper in which certain mathematical ideas are applied to the above mentioned fields .

Professor Irinel Dragan from the University of Texas at Arlington is the organizer of the Special Session on Game Theory at the annual meeting of the ORSA (the Operation Research Society of America) in Atlanta , Georgia .

Professor Constantin Corduneanu from the University of Texas at Arlington has participated in the International Conference on Differential Equations held in Pan American University , Edinburg , Texas .

Professor Izu Vaisman from the University of Haifa , Israel , has lectured in Rome during the Summer of 1985 .

Dr. Andrei Ocneanu is presently associated with the Research Institute in Mathematical Sciences in Berkeley , California .

Dr. Claudia Simionescu-Badea , formerly with the University of Braşov in Romania , has recently decided not to return to Romania (see her temporary address in Austria in the list of mathematicians included in this volume) .

THE AUTHORS OF VOLUME V

REZA AFTABIZADEH is currently an Associate Professor of Mathematics at the Ohio University , Athens , Ohio . His biographical note has been included in the volume II (1982) of Libertas Mathematica .

CHRISTIAN CONSTANDA (see biographical note in volume I (1981) of Libertas Mathematica) .

CONSTANTIN CORDUNEANU (see biographical data in volume I (1981) of Libertas Mathematica) .

IRINEL DRAGAN (see the biographical note in the volume II (1982) of Libertas Mathematica) .

GEORGE ISAC (see the biographical data in volume II (1982) of Libertas Mathematica) .

M. S. KHAN was born in 1949 . He obtained his B. Sc. degree from the University of Gorakhpur (India) , the M. Sc. from the Indian Institute of Technology , Kanpur , the M. Phil. from the Aligarh Muslim University , Aligarh (India) , and the Ph. D. from La Trobe University , Melbourne , Australia . His Ph. D. work is related to the theory of free products of topological groups . His research interest also includes fixed point theory and approximation theory . Dr. Khan has so far published a large number of research papers in various journals of national and international standards , and has also supervised the Ph. D. theses of four students . He is a referee for several mathematical journals and is a member of several learned societies . Currently , Dr. Khan is a Reader in Mathematics at the Aligarh Muslim University , where he has been teaching for the last 15 years . He is presently holding a visiting position with the King Abdul Aziz University in Jeddah , Saudi-Arabia .

T. KUBIAK is a faculty member of the Mathematical Institute , Adam Mickiewicz University , Poznan , Poland .

LAWRENCE O. LUPASH was born in Bucharest , Romania , on May 29 , 1942 . He obtained his M. Sc. in Engineering in 1965 , from the Polytechnic Institute of Bucharest , and his Ph. D. degree in 1972 . Until his immigration to the USA in 1980 , Lawrence Lupash held various positions in research , teaching and engineering : Research Fellow with the Romanian Academy , Assistant Professor with the Polytechnic Institute of Bucharest , Project Engineer with the Institute for Automation in Bucharest . He has published several scientific articles in various publications and coauthored (with V.Ionescu) two volumes of Numerical Techniques in Systems Theory (1974; in Romanian) . He is presently a computer analyst with Intermetrics , Inc. , Huntington Beach , California .

ION PARASCHIVOIU (see biographical note in volume IV (1984) of *Libertas Mathematica*) . Currently , Dr. Paraschivoiu is an Associate Professor with the Ecole Polytechnique de Montreal , Canada .

DAN PASCALI (see biographical data in volume III(1983) of *Libertas Mathematica*) .

ILIE POPESCU (see biographic data in volume III(1983) of *Libertas Mathematica*) .

VASILE-MIHAI POPOV was born in Galați - Romania - on July 7 , 1928 . He has spent half of his professional life , so far , in Romanian research institutes , and the other half in American Universities . While in Romania , he has been associated with the Institute of Power Research with the Romanian Academy . He has been elected a corresponding member of the Academy . His research interests include Control Theory and Qualitative Theory of Systems . Vasile Mihai Popov has authored the book "Hyperstability of Control Systems" which has been translated in Russian , French and English (originally published in Romanian) . He is known for his famous result on the stability of control systems . Lefschetz spoke of "Popov's era in stability theory" . Presently , Vasile Mihai Popov is a Professor with the Department of Mathematics , University of Florida at Gainesville .

FLORIAN POTRA was born in Cluj , Romania, on December 7 , 1950 . He graduated in 1973 from the Babes-Bolyai University in Cluj , obtaining his M. Sc. in Mathematics . During the academic year 1973-1974 , Florian Potra attended the specialization (postgraduate) course at the same university , being granted a certificate in Mathematical Analysis . He held various research positions in Bucharest until 1982 , including four years at INCREST . Since 1982 Florian Potra is teaching and conducting research in the United States , where he has been granted asylum . He obtained his Ph. D. in Mathematics in 1980 in Bucharest , with Pro-

fessor Constantin Apostol as supervisor , with the thesis "On the Solution of Operator Equations" . Dr. Potra is the coauthor (with V. Ptak) of the volume "Nondiscrete Induction and Iterative Processes" , Pitman Publishing , Ltd. He is currently associated with the Department of Mathematics , University of Iowa , Iowa City .

TUDOR RAȚIU is currently Associate Professor of Mathematics with the University of Arizona , Tucson . He received his B.A. and M.A. at the University of Timișoara , Romania , and his Ph. D. in Mathematics at the University of California at Berkeley (1980) , under the guidance of Professor J. Marsden . From 1980 to 1983 he was a T.H.Hildebrand Research Assistant Professor of Mathematics at the University of Michigan , Ann Arbor . Since 1983 he is spending half of the time at the University of California , Berkeley , where he is supported by an NSF Postdoctoral Fellowship , and a Sloan Foundation Fellowship . He has been also associated (temporarily) with the Mathematical Sciences Research Institute in Berkeley , the Center for Nonlinear Studies in Los Alamos , N.M. , and the Max Planck Institute in Bonn , West Germany . His main interests are Classical and Continuum Mechanics , Symplectic and Poisson Geometry , completely integrable systems , Global Analysis , and Kac-Moody Lie algebras . Tudor Rațiu has authored/coauthored a large number of mathematical papers , including books .

S. ZAIDMAN (see his biographical note in volume III (1983) of *Libertas Mathematica*) . Recently , Professor Zaidman has authored a book with Pitman Advanced Publishing Program . The title of the book is "Almost Periodic Functions in Abstract Spaces" and its review is inserted in this volume (see the section From the Bookshelves) .