



















ADVANCES in ENVIRONMENT TECHNOLOGIES, AGRICULTURE, FOOD and ANIMAL SCIENCE

Proceedings of the 2nd International Conference on Energy and Environment Technologies and Equipment (EEETE '13) Proceedings of the 2nd International Conference on Agricultural Science, Biotechnology, Food and Animal Science (ABIFA '13)

> Brasov, Romania June 1-3, 2013

Scientific Sponsors:



Transilvania University of Brasov



University of Craiova



University Politehnica of Bucharest



Stefan cel Mare University of Suceava



Constantin Brancusi University of Targu-Jiu



Megatrend University of Belgrade



University Lucian Blaga of Sibiu



Constanta Maritime University

Energy, Environmental and Structural Engineering Series | 10

ISSN: 2227-4359

ISBN: 978-1-61804-188-3

ADVANCES in ENVIRONMENT TECHNOLOGIES, AGRICULTURE, FOOD and ANIMAL SCIENCE

Proceedings of the 2nd International Conference on Energy and Environment Technologies and Equipment (EEETE '13)

Proceedings of the 2nd International Conference on Agricultural Science, Biotechnology, Food and Animal Science (ABIFA '13)

Brasov, Romania June 1-3, 2013

Published by WSEAS Press www.wseas.org

Copyright © 2013, by WSEAS Press

All the copyright of the present book belongs to the World Scientific and Engineering Academy and Society Press. All rights reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopying, recording, or otherwise, without the prior written permission of the Editor of World Scientific and Engineering Academy and Society Press.

All papers of the present volume were peer reviewed by no less that two independent reviewers. Acceptance was granted when both reviewers' recommendations were positive. See also: http://www.worldses.org/review/index.html

ISSN: 2227-4359

ISBN: 978-1-61804-188-3

ADVANCES in ENVIRONMENT TECHNOLOGIES, AGRICULTURE, FOOD and ANIMAL SCIENCE

Proceedings of the 2nd International Conference on Energy and Environment Technologies and Equipment (EEETE '13)

Proceedings of the 2nd International Conference on Agricultural Science, Biotechnology, Food and Animal Science (ABIFA '13)

Brasov, Romania June 1-3, 2013

Editors:

Prof. Vladimir Marascu-Klein, Transilvania University of Brasov, Romania

Prof. Mihai Cruceru, University "Constantin Brancusi" from Targu-Jiu, Romania

Prof. Marian Ciontu, University of Craiova, Romania

Reviewers:

Vishnu Pratap Singh Kirar

Suzana Yusup
Chellali Benachaiba
Dayanand Kalyani
Niculae Boteanu
Liana Anica-Popa
José Nunes

John Antonopoulos Ioana Diaconescu Vasile Zotic

Borz Stelian Alexandru Krisztina Uzuneanu Elisa Bettencourt Francisco Diniz Francisc Popescu Andreea Zamfir Khashayar Tabari Petr Mastny

Cristinel Racoceanu
Denizar Cruz Martins
Dragoi Andreea
Lucija Foglar
Carlos E. Formigoni
Grabara Janusz
Mihaela Dudita
Gheorghe Manolea
Diana-Elena Alexandru
Adina Andreea Ohota

Tejinder Saggu L. Gaceu

Hugo Cruz-Suarez Julián Pucheta Monica Dumitrascu

Rodica Badescu

Andrei Jean Vasile

Oguz Arslan

Ramin Khodafarin

Sara Sadrzadehrafiei

Chawla M. P. S. Chawla

Kamyar Mehranzamir

Alexander N. Pisarchik

Catalin Popescu

Khaled Galal Ahmed

Pablo Fdez-Arroyabe

Rosli Abu Bakar

Giri Kattel

Gherghinescu Sorin

Zohreh Salavatizadeh

Yang Zhang

Saeid Eslamian

Arion Felix

D. V. Ciobanu

Andrei Madalina-Teodora Alina Adriana Minea

Zengshi Chen

Kannan Subramanian Roger R. Riehl

Chi, Chieh-Tsung Bruce Jose Manuel Mesa Fernández

Mojtaba Shivaie I. C. Rosca

Harry Coomar Shumsher Rughooputh

Feridoun Nahidi Azar Mahboobeh Mahmoodi

Davorin Kralj Shahram Javadi Corina Carranca

S. Vlase

Ahadollah Azami Ozlem Coskun Cristina Matos W. Thierheimer Manendra Pal Singh Adrian Turek Rahoveanu

Heimo Walter

Maria De Fátima Nunes De Carvalho

Mohammad Al-Amri

Ioana Adrian A. Fota Dragos Ilie

Sorin Gherghinescu

Preface

This year the 2nd International Conference on Energy and Environment Technologies and Equipment (EEETE '13) and the 2nd International Conference on Agricultural Science, Biotechnology, Food and Animal Science (ABIFA '13) were held in Brasov, Romania, June 1-3, 2013. The conferences provided a platform to discuss energy production impact on ecological systems, energy efficiency, agricultural biotechnology, animal biotechnology, bioelectrical and neural engineering, bio-signal processing and analysis, pharmaceutical applications, protein modeling, enzyme engineering, food safety and hygiene, sustainable agriculture etc with participants from all over the world, both from academia and from industry.

Their success is reflected in the papers received, with participants coming from several countries, allowing a real multinational multicultural exchange of experiences and ideas.

The accepted papers of these conferences are published in this Book that will be sent to international indexes. They will be also available in the E-Library of the WSEAS. Extended versions of the best papers will be promoted to many Journals for further evaluation.

Conferences such as these can only succeed as a team effort, so the Editors want to thank the International Scientific Committee and the Reviewers for their excellent work in reviewing the papers as well as their invaluable input and advice.

The Editors

Table of Contents

Plenary Lecture 1: New Competitive Technology to Develop High-Effective Energy Sources Ioana Diaconescu	13
Processing Species Occurrence Records Supported by GIS on the Example of the White Carpathian Mts.	15
Vilém Pechanec, Jan Willem Jongepier, Ivo Machar	
Analytic Model of the Mobile Half-Bridge of a Circular Settling Tank	21
Emil M. Oanta, Cornel Panait, Gheorghe Lazaroiu, Anca-Elena Dascalescu	
Contamination with Heavy Metals of the Soil under the Influence of Heavy Traffic Panaitescu Mariana, Panaitescu Fanel-Viorel	27
Evaluating the Potential of Various Methods for the Rehabilitation of District Heating Systems Liviu Ruieneanu, Cristian Bratu	37
Ground Coupled Heat Pump Systems – A Key for a Sustainable Development of Heating and Cooling Buildings Gabriel V. Bendea, Marcela F. Prada, Codruta C. Bendea, Calin D. Secui	41
Analysis of Plate Heat Exchangers Situated in the Geothermal District Heating System – Iosia, Oradea Crina Panea, Marcel Rosca, Vasile Moldovan, Gabriel Bendea, Adrian Ciobanca	47
Effect of Temperature Drying upon Solid Wood Shrinkage for Norway Spruce Aurel Lunguleasa	56
Evaluations of Wind Potential in Dobrogea Plateau Adrian Sabău, Darie Tudor	60
Evaluation of Process Parameters of the Biological Stage of Wastewater Treatment Plant Mariana Panaitescu, Ileana-Irina Panaitescu	66
Correlation Between Entropy Generation and Internal Irreversibility Cycle under Maximum Power and Maximum Economy Omocea Ion, Ciucur Violeta	72
Optimizing the District Heating Network in Oradea Municipality – Energetic and Environmental Impact Adrian Ciobanca, Ioan Felea, Gabriel Bendea	75
Trigeneration in Tertiary Sector: A Case Study Eduard Minciuc, Roxana Patrascu, Ioana Diaconescu	81
Evaluation of Internal Recuperation of Heat from Flue Gasses Resulted from Urban Waste Incineration Roxana Patrascu, Eduard Minciuc, Ioana Diaconescu	86

Evaluation of Various WEC Devices in the Romanian Near Shore	92
Sorin Diaconu, Eugen Rusu	
The Reliability in Natural Gas Distribution Systems	103
Lucia-Maria Boeriu, Alexandru Serban, Mariana Fratu, Cristian Nastac	
Monitoring and Management of Energy in a Stand Alone Photovoltaic System	107
Ionel Laurentiu Alboteanu, Gheorghe Manolea	107
Reduction of Turceni Thermal Power Plant Impact upon Environmental by Superior Valorisation of Ash and Slag	112
Popescu Luminita Georgeta, Mihai Cruceru, Cristinel Racoceanu, Georgeta Predeanu	
Radiant Tubes Connected to Biological Waste Drying and Gasifying Chambers Ioan Căldare, Cornel Muntea, Ioan Giurca	118
Heat Obtained from Gas and Its Environmental Impact Camelia Popa, Costel Mironeasa	123
The Mathematic Model on Research Regarding Wool Dyeing with Natural Dyes Extracted from Green Walnuts	131
Monica Pustianu, Adina Bucevschi, Cecilia Sîrghie, Mihaela Dochia, Alexandru Popa, Erzsebet Airinei	
Research on Particulate Matter PM10 Pollution Due to Coal Burning in Oltenia Energy Complex	137
Cristinel Racoceanu, Luminița-Georgeta Popescu, Cristinel Popescu, Mihai Cruceru	
Factors of Influence Combustion	143
Grîu Tatiana, Lunguleasa Aurel	
Environmentally Friendly Technologies to Waterproofing Rehabilitation for Building Infrastructure Tamas Florin-L., Tuns Ioan	148
Heat Load Calculation by Means of CTF vs. SR 1907	152
Cristian D. Năstac, Lucia M. Boeriu, Alexandru Serban, Nicolae F. Iordan, Sorin Bolocan	132
Biomass Co-Firing in Existing Power Plants	156
Mihai Cruceru, Ion Pisc, Luminita Popescu, Bogdan Diaconu	
Promotion of Energy Efficiency and Renewable Energy Sources at Local Level. Case Study: Municipal Public Outdoor Lighting System	162
Mihai Cruceru, Mihai-Marius Voronca, Simona-Louise Voronca	
Influence of Glazed Area Size and Configuration on Indoor Thermal Comfort	168
Bogdan Marian Diaconu, Mihai Cruceru, Luminita Georgeta Popescu, Cristinel Popescu	
Aspects of the Influence of Internal Services of Groups with Relatively High Unit Power on	174
Energy Efficiency Cristinel Popescu, Luminița-Georgeta Popescu, Mihai Cruceru, Cristinel Racoceanu	

Aspects of Voltage Drops on the Power Circuits of Electrostatic Dusting Equipment Entering in the Circuit Diagram of a Thermal Power of 330 MW Group Cristinel Popescu, Florin Grofu	1/8
Increasing the Performance of Electrical Installation for Removing Fly Ash from Flue Gas with the Purpose of Reducing the Impact upon Environment Lucica Anghelescu, Luminita Georgeta Popescu	183
Energy Balance of a Coal-Fired Power Plant in Condensing Operation <i>Ion Dosa</i>	187
Study Concerning Solar Sorption Refrigeration Systems for Residential Buildings Alexandru Serban, Lucia Boieriu, Gabriel Nastase	193
Box Window Double-Skin Façade. Experimental Model in Brasov, Romania Gabriel Nastase, Robert Gavriliuc, Alexandru Serban	197
Ranking of the Power Quality Level at Boundary between Transmission and Distribution Networks Denisa Rusinaru, Daniela Popescu, Marius Merfu, Leonardo Geo Manescu, Valeria Anghelina	201
Aspects of Simulation of the Drum to the Steam Generator with Natural Circulation in Dynamic Regime Adelaida Mihaela Duinea, Cristian Bratu, Catalin Duinea	207
The Control of Variable Speed Pumps in Series Operation Daniela Popescu, Adelaida Mihaela Duinea, Denisa Rusinaru	212
Flue Gas Desulphuriation Using Jet Bubbling Reactor Cornel Muntea, Ioan Caldare, Ioan Giurca	217
Evaluation of Ash Utilization as a Reuse Material for the Ceramic Industry Georgeta Predeanu, Enikö Volceanov, Traian Alexandru Abagiu, Luminita Georgeta Popescu	224
Analysis of New Technologies Used for CCHP Systems Krisztina Uzuneanu, Ioana Diaconescu	230
Use of Wheat Flour Analytical Characteristics for Predicting the Simulator Mixolab Measurements Georgiana G. Codină, Silvia Mironeasa, Costel Mironeasa	235
Alveograph Dough Rheological Parameters Related to Wheat Flour Analytical Characteristics Using Principal Component Analysis Silvia Mironeasa, Georgiana G. Codină	240
Conventional and non-Conventional Extraction of Anthocyanins from Rubus Idaeus L. Grown in Romania Simona Oancea, Cristian Grosu, Diana Coman, Mihaela Stoia	n 247
Comparative Overview on Legislative Measures in Ecological Farming Florin Fainisi	252

Study Regarding the Optimization of the Bioscouring Treatment on 100% Cotton Materials Iştoc Ioan Vifor, Pustianu Monica, Bucevschi Adina, Dochia Mihaela, Sîrghie Cecilia	258
Occurrence of Caffeine in Carbonated Drinks Cola Type from Romanian Market Mircea Oroian	263
Monitoring of the Vegetables Drying Process Using Infrared Images L. Gaceu, B. Lepadatescu	267
The Influence of Natrium Nitrite upon Meat Preparats Technological Properties and Their Shelf Life Adriana Dabija, Iuliana Sion	273
Researches Regarding the Beneficial and Pest Fauna of Invertebrate in the Corn Agricultural Ecosystem in Poplaca (Sibiu County) Iuliana Antonie, Traian Manole	279
Cuscuta spp in the Context of Sustainable Development – A Destructive or a Conservative Species? Maria Tanase, Maria Gheorghe, Mirela Stanciu	285
Study Concerning the Capitalization on Local Level of Traditional Products Obtained from Sheep, Sibiu County, Romania Stanciu Mirela, Tănase Maria, Barbu Horia, Vlad Iulian, Blaj Robert, Sand Camelia, Gheorghe Gina	290
Indicative Recognition Criteria of Degradation by Compaction of the Greenhouses Soils with Coarse Texture Feodor Filipov, Costel Samuil, Vasile Vintu	295
Testing the Effectiveness of some Environmental-Friendly Antibacterial Fabrics Dana G. Radu, Cecilia Sirghie	300
Study of Phenolic Compounds Adsorption from Wine on Silica Meso-Cellular Foam Camelia Elena Luchian, Valeriu V. Cotea, Cintia Lucia Colibaba, Antoanela Patras, Marius Niculaua, Bogdan Nechita, Cătălin Zamfir, Maria Codreanu, Ioan Moraru	304
In Vitro Germination of Gentiana Lutea L. Valuable Genotypes Camelia Sava Sand, Maria-Mihaela Antofie, C. H. Barbu, M. R. Pop	309
Analysis of the Agricultural Producers' Vision in Relation to Farm Development Ways in Arges County Elena Stoian, Toma Dinu, Valentina Tudor, Marius Mihai Micu, Ionela Miţuko Vlad	313
Study Regarding the Protective Effect of Rubus Fruticosus Anthocyanin Extract against Myoglobin Oxidation in Porcine Longissimus Thoracis, Semimembranosus and Bovine Longissimus Lumborum Olga Drăghici, Simona Oancea	319
Authors Index	325

Plenary Lecture 1

New Competitive Technology to Develop High-Effective Energy Sources



Professor Ioana Diaconescu

Research Center for Mechanics of Machines and Technological Equipment "Dunarea de Jos" University of Galati
Romania

E-mail: idiaconescu@ugal.ro

Abstract: This paper presents some aspects regarding the strategic aims and priorities for development of new competitive scientific products and technologies, targeted at solving global energy and ecological problems. The leading tendency is directed to substitution of the traditional hydrocarbon fuels with alternative renewable energy sources. Significant part of the research is oriented in development of high-effective ecologically friendly energy sources, based on the concept of the so-called hydrogen economy and especially with the development of new types of fuel cells.

An increasing share of the research in the field of alternative energy sources is directed to the microbiological fuel cells. They use easily accessible natural substrates, during which oxidation electricity is generated. Their great potential is determined by the combination of technologies for electricity production and simultaneous use for soil or water purification, eco-monitoring, etc.

The most perspective application of the microbiological fuel cells is an electricity generation from the aquatic sediments, rich of organic matter. These are the sediment biofuel cells. One of the major advantages of these biofuel cells is that the electricity generation from river or marine sediments contributes to purification of water from organic and in some cases from inorganic pollutions by using ecologically friendly technologies.

Most sediment fuel cells have been tested in marine environments, and only a few in fresh-water reservoirs. This is because seawater has a higher electrical conductivity than river water and it has been suggested that marine sediment fuel cells are expected to produce greater electric power than river-water ones due to a lower electrolyte resistance. Similar sediment fuel cells have been tested for powering signalization systems in the open sea areas and they have been shown stable operational characteristics for a long time.

Brief Biography of the Speaker: Ioana Diaconescu received her Master's degree in Electrotechnics and Energetic from Polytechnic Institute from Bucharest, in 1987. She has earned her Ph.D in Advanced Engineering Thermodynamics from "Dunarea de Jos" University-Galati, in 1998. She is recognized as mechanical engineering associate professor at the department of Technical Sciences, Machines and Drives from "Dunarea de Jos" University from Galati and she teaches mainly Thermodynamics, Heat and Mass Transfer and Electrical Drives. Since 2001 she is a senior research at the Research Center for Mechanics of Machines and Technological Equipments and she focused her research activities during the last ten years to energy saving and trigeneration, mass and heat transfer (paper drying process), exergy and energy analysis of thermal processes, irreversible processes analysis, renewable energy and energy management. She is author of three books and more than 90 scientific papers published at international conferences and journals. She is Romanian and Bulgarian evaluator for R&D projects and also European evaluator for education's quality. Also, Ioana Diaconescu is reviewer for WSEAS papers and other prestigious journals.

loana Diaconescu was invited two times as visiting professor in City University of Honk-Kong-China, were developed a fruitful collaboration with Mathematical Department regarding PDEs in mass transfer issues (paper drying process). Dr. Ioana Diaconescu is an Expert of Romanian National University Research Council – CNCSIS and also an Evaluator of the Romanian Agency for Quality Assurance in Higher Education.

Authors Index

Airinel, E. 131 Gheorghe, M. 285 Popescu, C. 137, 168 Alboteanu, I. L. 107 Giurca, I. 118, 217 Popescu, C. 174, 178 Anghelescu, L. 183 Grìu, T. 143 Popescu, D. 201, 212 Anghelina, V. 201 Grofu, F. 178 Popescu, L. G. 112, 137, 156 Antofile, MM. 309 Grosu, C. 247 Popescu, L. G. 121, 137, 156 Antofile, MM. 309 Grosu, C. 247 Popescu, L. G. 122, 43 Antonile, I. 279 Iordan, N. F. 152 Popescu, L. G. 128, 174, 183 Antonile, I. 290 Lazaroiu, G. 21 Predeanu, G. 112, 224 Bendea, C. C. 41 Lepadatescu, B. 267 Pustianu, M. 131, 258 Bendea, G. V. 41, 47, 75 Luchian, C. E. 304 Racoceanu, C. 112, 137, 174 Blaj, R. 290 Lunguleasa, A. 56, 143 Radu, D. G. 300 Boeriu, LM. 103, 152, 193 Machar, I. 15 Rosca, M. 47 Bolocan, S. 152 Manescu, L. G. 201 Ruieneanu, L. 37 Bratu, C. 37, 207 Manole, T. 279 Rusinaru, D. 201, 212 Bucevschi, A. 131, 258 Manolea, G. 107 Rusu, E. 92 Caldare, I. 118, 217 Merfu, M. 201 Sabău, A. 60 Ciobanca, A. 47, 75 Micu, M. M. 313 Samuil, C. 295 Ciucur, V. 72 Minciuc, E. 81, 86 Sand, C. S. 290, 309 Codinà, G. G. 235, 240 Mironeasa, C. 123, 235 Colicur, V. 72 Minoleu, E. 81, 86 Codreanu, M. 304 Mironeasa, C. 123, 255 Coloran, D. 247 Moraru, I. 304 Serban, A. 193, 197 Cortea, V. V. 304 Moldovan, V. 47 Coman, D. 247 Moraru, I. 304 Stoian, E. 273 Nechita, B. 304 Stoian, E. 313 Diaconecu, I. 81, 86, 230 Diaconu, S. M. 156, 168 Diaconu, S. 160 Diaconu, S. 175 Diaconecu, I. 81, 86, 230 Diaconu, S. M. 156, 168 Diaconu, S. 187 Panaitescu, FV. 27 Diaconu, R. 187 Panaitescu, R. 21 Diaconecu, L. 267 Pop, M. R. 207 Panaitescu, R. 21 Duinea, C. 207 Panaitescu, R. 21 Duinea, C. 207 Panaitescu, R. 21 Duinea, C. 207 Panaitescu, R. 27 Panaitescu, R. 21 Duinea, C. 207 Panaitescu, R. 21 Duinea, C. 207 Panaitescu, R. 21 Duinea, C. 207 Panaitescu, R. 21	Abagiu, T. A.	224	Gheorghe, G.	290	Popa, C.	123
Alboteanu, I. L. 107 Giurca, I. 118, 217 Popescu, C. 174, 178 Anghelescu, L. 183 Gríu, T. 143 Popescu, D. 201, 212 Anghelina, V. 201 Gróu, F. 178 Popescu, L. G. 112, 137, 156 Antonie, I. 279 lordan, N. F. 152 Popescu, L. G. 224 Barbu, C. H. 309 Jongepier, J. W. 15 Prada, M. F. 41 Barbu, H. 290 Lazaroiu, G. 21 Predeanu, G. 112, 224 Bendea, C. C. 41 Lepadatescu, B. 267 Pustianu, M. 131, 258 Bendea, G. V. 41, 47, 75 Luchian, C. E. 304 Racoceanu, C. 112, 137, 174 Blaj, R. 290 Luchian, C. E. 304 Racoceanu, C. 112, 137, 174 Booriu, LM. 103, 152, 193 Machar, I. 15 Rosca, M. 47 Boeriu, CM. 31, 258 Manolea, T. Rusinaru, D. 201, 212 Buceveschi, A. 313, 258 Manescu, L. G. </td <td>-</td> <td></td> <td>•</td> <td></td> <td>•</td> <td></td>	-		•		•	
Anghelescu, L. 183 Grûu, T. 143 Popescu, D. 201, 212 Anghelina, V. 201 Grofu, F. 178 Popescu, L. G. 112, 137, 156 Antonie, M. 309 Grosu, C. 247 Popescu, L. G. 124, 183, 145, 183 Antonie, I. 279 Iordan, N. F. 152 Popescu, L. G. 224 Barbu, C. H. 309 Jongepier, J. W. 15 Prada, M. F. 41 Barbu, H. 290 Lazaroiu, G. 21 Predeanu, G. 112, 224 Bendea, C. C. 41 Lepadatescu, B. 267 Pustianu, M. 131, 258 Bendea, G. V. 41, 47, 75 Luchian, C. E. 304 Racoceanu, C. 112, 137, 174 Baj, R. 290 Machar, I. 15 Rosca, M. 47 Boeriu, LM. 103, 152, 193 Machar, I. 15 Rosca, M. 47 Bolocan, S. 152 Manole, T. 279 Rusinaru, D. 201, 212 Bratu, C. 37, 207 Manole, T. <t< td=""><td></td><td></td><td>-</td><td></td><td>-</td><td></td></t<>			-		-	
Anghelina, V. 201 Grofu, F. 178 Popescu, L. G. 112, 137, 156 Antonie, MM. 309 Grosu, C. 247 Popescu, L. G. 168, 174, 183 Antonie, I. 279 Iordan, N. F. 152 Popescu, L. G. 224 Barbu, C. H. 309 Jongepier, J. W. 15 Prada, M. F. 41 Barbu, H. 290 Lazaroiu, G. 21 Predeanu, G. 112, 224 Bendea, G. V. 41, 47, 75 Luchian, C. E. 304 Racoceanu, C. 112, 137, 174 Blaj, R. 290 Lunguleasa, A. 56, 143 Radu, D. G. 300 Boeriu, LM. 103, 152, 193 Machar, I. 15 Rosca, M. 47 Blucevschi, A. 131, 258 Manolea, G. 201 Ruisnaru, D. 201, 212 Bucevschi, A. 131, 258 Manolea, G. 107 Rusu, E. 92 Câldare, I. 118, 217 Merfu, M. 201 Sabău, A. 60 Ciucur, V. 72 Micou, E.					•	
Antofie, MM. 309 Grosu, C. 247 Popescu, L. G. 168, 174, 183 Antonie, I. 279 lordan, N. F. 152 Popescu, L. G. 224 Barbu, C. H. 309 Jongepier, J. W. 15 Prada, M. F. 41 Barbu, H. 290 Lazaroiu, G. 21 Predeanu, G. 112, 224 Bendea, C. C. 41 Lepadatescu, B. 267 Pustianu, M. 131, 258 Bendea, G. V. 41, 47, 75 Lunguleasa, A. 56, 143 Radu, D. G. 300 Boeriu, LM. 103, 152, 193 Machar, I. 15 Rosca, M. 47 Bolocan, S. 152 Manescu, L. G. 201 Ruisnaru, D. 201, 212 Bratu, C. 37, 207 Manole, T. 279 Rusinaru, D. 201, 212 Bucevschi, A. 131, 258 Manolea, G. 107 Rusu, E. 92 Câldare, I. 118, 217 Merfu, M. 201 Sabău, A. 60 Ciucur, V. 72 Minciuc, E. 81, 86	•				•	
Antonie, I. 279 Iordan, N. F. 152 Popescu, L. G. 224 Barbu, C. H. 309 Jongepier, J. W. 15 Prada, M. F. 41 Barbu, H. 290 Lazaroiu, G. 21 Predeanu, G. 112, 224 Bendea, G. C. 41 Lepadatescu, B. 267 Pustianu, M. 131, 258 Bendea, G. V. 41, 47, 75 Luchian, C. E. 304 Racoceanu, C. 112, 137, 174 Blaj, R. 290 Machar, I. 15 Rosca, M. 47 Boeriu, LM. 103, 152, 193 Machar, I. 15 Rosca, M. 47 Bolocan, S. 152 Manescu, L. G. 201 Ruieneanu, L. 37 Bratu, C. 37, 207 Manolea, G. 201 Rusinaru, D. 201, 212 Bucevschi, A. 118, 217 Merfu, M. 201 Sabáu, A. 60 Ciddare, I. 118, 217 Merfu, M. 201 Sabáu, A. 60 Ciducur, V. 72 Minciuc, E. 81, 86	•				•	
Barbu, C. H. 309 Jongepier, J. W. 15 Prada, M. F. 41 Barbu, H. 290 Lazaroiu, G. 21 Predeanu, G. 112, 224 Bendea, C. C. 41 Lepadatescu, B. 267 Pustianu, M. 131, 258 Bendea, G. V. 41, 47, 75 Luchian, C. E. 304 Racoceanu, C. 112, 137,174 Blaj, R. 290 Lunguleasa, A. 56, 143 Radu, D. G. 300 Boeriu, LM. 103, 152, 193 Machar, I. 15 Rosca, M. 47 Bolocan, S. 152 Manescu, L. G. 201 Ruieneanu, L. 37 Bratu, C. 37, 207 Manolea, G. 107 Rusu, E. 92 Căldare, I. 118, 217 Merfu, M. 201 Sabău, A. 60 Ciobanca, A. 47, 75 Micu, M. 313 Samuil, C. 295 Ciucur, V. 72 Minciuc, E. 81, 86 Sacui, C. D. 41 Codreanu, M. 304 Mironeasa, S. 235, 240 <td< td=""><td></td><td></td><td></td><td></td><td>•</td><td></td></td<>					•	
Barbu, H. 290 Lazaroiu, G. 21 Predeanu, G. 112, 224 Bendea, C. C. 41 Lepadatescu, B. 267 Pustianu, M. 131, 258 Bendea, G. V. 41, 47, 75 Luchian, C. E. 304 Racoceanu, C. 112, 137, 174 Blaj, R. 290 Lunguleasa, A. 56, 143 Radu, D. G. 300 Boeriu, LM. 103, 152, 193 Machar, I. 15 Rosca, M. 47 Bolocan, S. 152 Manescu, L. G. 201 Ruieneanu, L. 37 Bratu, C. 37, 207 Manolea, G. 107 Rusinaru, D. 201, 212 Bucevschi, A. 131, 258 Manolea, G. 107 Rusinaru, D. 201, 212 Bucevschi, A. 131, 258 Manolea, G. 107 Rusinaru, D. 201, 212 Bucevschi, A. 131, 258 Manolea, G. 107 Rusinaru, D. 201, 212 Gildare, I. 118, 217 Merfu, M. 201 Sabău, A. 60 Ciducur, V. 72 Minciuc, E. <td></td> <td></td> <td></td> <td></td> <td>•</td> <td></td>					•	
Bendea, C. C. 41 Lepadatescu, B. 267 Pustianu, M. 131, 258 Bendea, G. V. 41, 47, 75 Luchian, C. E. 304 Racoceanu, C. 112, 137, 174 Blaj, R. 290 Lunguleasa, A. 56, 143 Radu, D. G. 300 Boeriu, LM. 103, 152, 193 Machar, I. 15 Rosca, M. 47 Bolocan, S. 152 Manescu, L. G. 201 Ruieneanu, L. 37 Bratu, C. 37, 207 Manole, T. 279 Rusinaru, D. 201, 212 Bucevschi, A. 131, 258 Manolea, G. 107 Rusu, E. 92 Căldare, I. 118, 217 Merfu, M. 201 Sabău, A. 60 Ciobanca, A. 47, 75 Micoluc, M. 313 Samuil, C. 295 Cidicur, V. 72 Mircineasa, S. 235, 240 Secul, C. D. 41 Codreanu, M. 304 Mircineasa, S. 235, 240 Serban, A. 193, 197 Codibaba, C. L. 304 Moldovan, V. <			• .			
Bendea, G. V. 41, 47, 75 Luchian, C. E. 304 Racoceanu, C. 112, 137, 174 Blaj, R. 290 Lunguleasa, A. 56, 143 Radu, D. G. 300 Boeriu, LM. 103, 152, 193 Machar, I. 15 Rosca, M. 47 Bolocan, S. 152 Manolea, C. 201 Rusinaru, D. 201, 212 Bratu, C. 37, 207 Manolea, G. 107 Rusu, E. 92 Câldare, I. 118, 217 Merfu, M. 201 Sabău, A. 60 Ciobanca, A. 47, 75 Micu, M. M. 313 Samuil, C. 295 Ciucur, V. 72 Mironeasa, C. 123, 235 Secui, C. D. 41 Codreanu, M. 304 Mironeasa, S. 235, 240 Serban, A. 103, 152 Colibaba, C. L. 304 Moldovan, V. 47 Serban, A. 103, 152 Cotea, V. V. 304 Muntea, C. 118, 217 Sirghie, C. 131, 258, 300 Cruceru, M. 162, 168, 174 Nastase, G.						
Blaj, R. 290 Lunguleasa, A. 56, 143 Radu, D. G. 300 Boeriu, LM. 103, 152, 193 Machar, I. 15 Rosca, M. 47 Bolocan, S. 152 Manescu, L. G. 201 Ruieneanu, L. 37 Bratu, C. 37, 207 Manolea, G. 107 Rusu, E. 92 Câldare, I. 118, 217 Merfu, M. 201 Sabău, A. 60 Ciobanca, A. 47, 75 Micu, M. M. 313 Samuil, C. 295 Ciucur, V. 72 Minciuc, E. 81, 86 Sand, C. S. 290, 309 Codină, G. G. 235, 240 Mironeasa, S. 235, 240 Serban, A. 103, 152 Codreanu, M. 304 Mironeasa, S. 235, 240 Serban, A. 103, 152 Coman, D. 247 Moraru, I. 304 Sion, I. 273 Cotea, V. V. 304 Murtea, C. 118, 217 Sîrghie, C. 131, 258, 300 Cruceru, M. 162, 168, 174 Nastase, G. 193, 197						
Boeriu, LM. 103,152,193 Machar, I. 15 Rosca, M. 47 Bolocan, S. 152 Manescu, L. G. 201 Ruieneanu, L. 37 Bratu, C. 37, 207 Manolea, T. 279 Rusinaru, D. 201, 212 Bucevschi, A. 131, 258 Manolea, G. 107 Rusu, E. 92 Câldare, I. 118, 217 Merfu, M. 201 Sabău, A. 60 Ciobanca, A. 47, 75 Micu, M. M. 313 Samuil, C. 295 Ciucur, V. 72 Minciuc, E. 81, 86 Sand, C. S. 290, 309 Codină, G. G. 235, 240 Mironeasa, S. 235, 240 Serban, A. 103, 152 Colibaba, C. L. 304 Moldovan, V. 47 Serban, A. 193, 197 Cotea, V. V. 304 Muntea, C. 118, 217 Sîrghie, C. 131, 258, 300 Cruceru, M. 162, 168, 174 Nastase, G. 193, 197 Stoian, E. 313 Dascalescu, AE. 21 Niculaua, M.			•		•	
Bolocan, S. 152 Manescu, L. G. 201 Ruieneanu, L. 37 Bratu, C. 37, 207 Manole, T. 279 Rusinaru, D. 201, 212 Bucevschi, A. 131, 258 Manolea, G. 107 Rusu, E. 92 Căldare, I. 118, 217 Merfu, M. 201 Sabău, A. 60 Ciobanca, A. 47, 75 Micu, M. M. 313 Samuil, C. 295 Ciucur, V. 72 Minciuc, E. 81, 86 Sand, C. S. 290, 309 Codină, G. G. 235, 240 Mironeasa, C. 123, 235 Secui, C. D. 41 Codreanu, M. 304 Mironeasa, S. 235, 240 Serban, A. 103, 152 Colibaba, C. L. 304 Moldovan, V. 47 Serban, A. 193, 197 Cotea, V. V. 304 Moraru, I. 304 Sirghie, C. 131, 258, 300 Cruceru, M. 112, 137, 156 Naštac, C. D. 103, 152 Stanciu, M. 285, 290 Cruceru, M. 162, 168, 174 Nastase, G. <td>•</td> <td></td> <td>•</td> <td></td> <td></td> <td></td>	•		•			
Bratu, C. 37, 207 Manole, T. 279 Rusinaru, D. 201, 212 Bucevschi, A. 131, 258 Manolea, G. 107 Rusu, E. 92 Câldare, I. 118, 217 Merfu, M. 201 Sabău, A. 60 Ciobanca, A. 47, 75 Micu, M. M. 313 Samuil, C. 295 Ciucur, V. 72 Minciuc, E. 81, 86 Sand, C. S. 290, 309 Codină, G. G. 235, 240 Mironeasa, C. 123, 235 Secui, C. D. 41 Codreanu, M. 304 Mironeasa, S. 235, 240 Serban, A. 103, 152 Colibaba, C. L. 304 Moldovan, V. 47 Serban, A. 193, 197 Coman, D. 247 Moraru, I. 304 Sion, I. 273 Cotea, V. V. 304 Muntea, C. 118, 217 Sîrghie, C. 131, 258, 300 Cruceru, M. 162, 168, 174 Nastase, G. 193, 197 Stoia, M. 247 Daisconu, B. M. 162, 168, 174 Nastase, G.						
Bucevschi, A. 131, 258 Manolea, G. 107 Rusu, E. 92 Câldare, I. 118, 217 Merfu, M. 201 Sabău, A. 60 Ciobanca, A. 47, 75 Micu, M. M. 313 Samuil, C. 295 Ciucur, V. 72 Minciuc, E. 81, 86 Sand, C. S. 290, 309 Codină, G. G. 235, 240 Mironeasa, C. 123, 235 Secui, C. D. 41 Codreanu, M. 304 Mironeasa, S. 235, 240 Serban, A. 103, 152 Colibaba, C. L. 304 Moldovan, V. 47 Serban, A. 193, 197 Coman, D. 247 Moraru, I. 304 Sion, I. 273 Cotea, V. V. 304 Muntea, C. 118, 217 Sîrghie, C. 131, 258, 300 Cruceru, M. 112, 137, 156 Năstac, C. D. 103, 152 Stanciu, M. 285, 290 Cruceru, M. 162, 168, 174 Nastase, G. 193, 197 Stoia, M. 247 Daisconu, AE. 21 Niculaua, M.						
Căldare, I. 118, 217 Merfu, M. 201 Sabău, A. 60 Ciobanca, A. 47, 75 Micu, M. M. 313 Samuil, C. 295 Ciucur, V. 72 Minciuc, E. 81, 86 Sand, C. S. 290, 309 Codină, G. G. 235, 240 Mironeasa, C. 123, 235 Secui, C. D. 41 Codreanu, M. 304 Mironeasa, S. 235, 240 Serban, A. 103, 152 Colibaba, C. L. 304 Moldovan, V. 47 Serban, A. 193, 197 Coman, D. 247 Moraru, I. 304 Sion, I. 273 Cotea, V. V. 304 Muntea, C. 118, 217 Sîrghie, C. 131, 258, 300 Cruceru, M. 162, 168, 174 Nastase, G. 193, 197 Stoia, M. 247 Dabija, A. 273 Nechita, B. 304 Stoia, M. 247 Diaconescu, I. 81, 86, 230 Oancea, S. 247, 319 Tanase, M. 285, 290 Diaconu, B. M. 156, 168 Oanta, E. M.						
Ciobanca, A. 47, 75 Micu, M. M. 313 Samuil, C. 295 Ciucur, V. 72 Minciuc, E. 81, 86 Sand, C. S. 290, 309 Codină, G. G. 235, 240 Mironeasa, C. 123, 235 Secui, C. D. 41 Codreanu, M. 304 Mironeasa, S. 235, 240 Serban, A. 103, 152 Colibaba, C. L. 304 Moldovan, V. 47 Serban, A. 193, 197 Coman, D. 247 Moraru, I. 304 Sion, I. 273 Cotea, V. V. 304 Muntea, C. 118, 217 Sîrghie, C. 131, 258, 300 Cruceru, M. 162, 168, 174 Nastase, C. D. 103, 152 Stanciu, M. 285, 290 Cruceru, M. 162, 168, 174 Nastase, G. 193, 197 Stoia, M. 247 Dabija, A. 273 Nechita, B. 304 Stoian, E. 313 Diaconescu, I. 81, 86, 230 Oancea, S. 247, 319 Tanase, M. 285, 290 Diaconu, S. 92 Omocea, I.				201		60
Ciucur, V. 72 Minciuc, E. 81, 86 Sand, C. S. 290, 309 Codină, G. G. 235, 240 Mironeasa, C. 123, 235 Secui, C. D. 41 Codreanu, M. 304 Mironeasa, S. 235, 240 Serban, A. 103, 152 Colibaba, C. L. 304 Moldovan, V. 47 Serban, A. 193, 197 Coman, D. 247 Moraru, I. 304 Sion, I. 273 Cotea, V. V. 304 Muntea, C. 118, 217 Sîrghie, C. 131, 258, 300 Cruceru, M. 112, 137, 156 Năstac, C. D. 103, 152 Stanciu, M. 285, 290 Cruceru, M. 162, 168, 174 Nastase, G. 193, 197 Stoia, M. 247 Daisona, A. 273 Nechita, B. 304 Stoian, E. 313 Dascalescu, AE. 21 Niculaua, M. 304 Tamas, FL. 148 Diaconu, B. M. 156, 168 Oanta, E. M. 21 Tudor, D. 60 Diaconu, S. 92 Omocea, I.				313		295
Codină, G. G. 235, 240 Mironeasa, C. 123, 235 Secui, C. D. 41 Codreanu, M. 304 Mironeasa, S. 235, 240 Serban, A. 103, 152 Colibaba, C. L. 304 Moldovan, V. 47 Serban, A. 193, 197 Coman, D. 247 Moraru, I. 304 Sion, I. 273 Cotea, V. V. 304 Muntea, C. 118, 217 Sîrghie, C. 131, 258, 300 Cruceru, M. 162, 168, 174 Nastase, G. 193, 197 Stoia, M. 247 Dabija, A. 273 Nechita, B. 304 Stoian, E. 313 Dascalescu, AE. 21 Niculaua, M. 304 Tamas, FL. 148 Diaconescu, I. 81, 86, 230 Oancea, S. 247, 319 Tanase, M. 285, 290 Diaconu, B. M. 156, 168 Oanta, E. M. 21 Tudor, D. 60 Diaconu, S. 92 Omocea, I. 72 Tudor, V. 313 Donia, T. 313 Oroian, M. 263	Ciucur, V.		Minciuc, E.	81, 86	Sand, C. S.	290, 309
Colibaba, C. L. 304 Moldovan, V. 47 Serban, A. 193, 197 Coman, D. 247 Moraru, I. 304 Sion, I. 273 Cotea, V. V. 304 Muntea, C. 118, 217 Sîrghie, C. 131, 258, 300 Cruceru, M. 112, 137, 156 Năstac, C. D. 103, 152 Stanciu, M. 285, 290 Cruceru, M. 162, 168, 174 Nastase, G. 193, 197 Stoian, M. 247 Dabija, A. 273 Nechita, B. 304 Stoian, E. 313 Dascalescu, AE. 21 Niculaua, M. 304 Tamas, FL. 148 Diaconescu, I. 81, 86, 230 Oancea, S. 247, 319 Tanase, M. 285, 290 Diaconu, B. M. 156, 168 Oanta, E. M. 21 Tudor, D. 60 Diaconu, S. 92 Omocea, I. 72 Tudor, V. 313 Dinu, T. 313 Oroian, M. 263 Tuns, I. 148 Dosa, I. 187 Panaitescu, FV. 27	Codină, G. G.	235, 240	Mironeasa, C.		Secui, C. D.	
Colibaba, C. L. 304 Moldovan, V. 47 Serban, A. 193, 197 Coman, D. 247 Moraru, I. 304 Sion, I. 273 Cotea, V. V. 304 Muntea, C. 118, 217 Sîrghie, C. 131, 258, 300 Cruceru, M. 112, 137, 156 Năstac, C. D. 103, 152 Stanciu, M. 285, 290 Cruceru, M. 162, 168, 174 Nastase, G. 193, 197 Stoia, M. 247 Dabija, A. 273 Nechita, B. 304 Stoian, E. 313 Dascalescu, AE. 21 Niculaua, M. 304 Tamas, FL. 148 Diaconescu, I. 81, 86, 230 Oancea, S. 247, 319 Tanase, M. 285, 290 Diaconu, B. M. 156, 168 Oanta, E. M. 21 Tudor, D. 60 Diaconu, S. 92 Omocea, I. 72 Tudor, V. 313 Dinu, T. 313 Oroian, M. 263 Tuns, I. 148 Dosa, I. 187 Panaitescu, FV. 27	Codreanu, M.	304	Mironeasa, S.	235, 240		103, 152
Cotea, V. V. 304 Muntea, C. 118, 217 Sîrghie, C. 131, 258, 300 Cruceru, M. 112, 137, 156 Năstac, C. D. 103, 152 Stanciu, M. 285, 290 Cruceru, M. 162, 168, 174 Nastase, G. 193, 197 Stoia, M. 247 Dabija, A. 273 Nechita, B. 304 Stoian, E. 313 Dascalescu, AE. 21 Niculaua, M. 304 Tamas, FL. 148 Diaconescu, I. 81, 86, 230 Oancea, S. 247, 319 Tanase, M. 285, 290 Diaconu, B. M. 156, 168 Oanta, E. M. 21 Tudor, D. 60 Diaconu, S. 92 Omocea, I. 72 Tudor, V. 313 Dinu, T. 313 Oroian, M. 263 Tuns, I. 148 Dochia, M. 131, 258 Panait, C. 21 Uzuneanu, K. 230 Dosa, I. 187 Panaitescu, FV. 27 Vifor, I. I. 258 Drăghici, O. 319 Panaitescu, M. 27, 66 </td <td>Colibaba, C. L.</td> <td>304</td> <td>Moldovan, V.</td> <td></td> <td>Serban, A.</td> <td></td>	Colibaba, C. L.	304	Moldovan, V.		Serban, A.	
Cruceru, M. 112,137,156 Năstac, C. D. 103, 152 Stanciu, M. 285, 290 Cruceru, M. 162,168,174 Nastase, G. 193, 197 Stoia, M. 247 Dabija, A. 273 Nechita, B. 304 Stoian, E. 313 Dascalescu, AE. 21 Niculaua, M. 304 Tamas, FL. 148 Diaconescu, I. 81, 86, 230 Oancea, S. 247, 319 Tanase, M. 285, 290 Diaconu, B. M. 156, 168 Oanta, E. M. 21 Tudor, D. 60 Diaconu, S. 92 Omocea, I. 72 Tudor, V. 313 Dinu, T. 313 Oroian, M. 263 Tuns, I. 148 Dochia, M. 131, 258 Panait, C. 21 Uzuneanu, K. 230 Dosa, I. 187 Panaitescu, FV. 27 Vifor, I. I. 258 Drăghici, O. 319 Panaitescu, II. 66 Vintu, V. 295 Duinea, A. M. 207, 212 Panaitescu, M. 27, 66	Coman, D.	247	Moraru, I.	304	Sion, I.	273
Cruceru, M. 162, 168, 174 Nastase, G. 193, 197 Stoia, M. 247 Dabija, A. 273 Nechita, B. 304 Stoian, E. 313 Dascalescu, AE. 21 Niculaua, M. 304 Tamas, FL. 148 Diaconescu, I. 81, 86, 230 Oancea, S. 247, 319 Tanase, M. 285, 290 Diaconu, B. M. 156, 168 Oanta, E. M. 21 Tudor, D. 60 Diaconu, S. 92 Omocea, I. 72 Tudor, V. 313 Dinu, T. 313 Oroian, M. 263 Tuns, I. 148 Dochia, M. 131, 258 Panait, C. 21 Uzuneanu, K. 230 Dosa, I. 187 Panaitescu, FV. 27 Vifor, I. I. 258 Drăghici, O. 319 Panaitescu, II. 66 Vintu, V. 295 Duinea, A. M. 207, 212 Panaitescu, M. 27, 66 Vlad, Ion. M. 313 Duinea, C. 207 Panea, C. 47 Vlad, Ion. M. 290 Fainisi, F. 252 Patras, A. 304 <td>Cotea, V. V.</td> <td>304</td> <td>Muntea, C.</td> <td>118, 217</td> <td>Sîrghie, C.</td> <td>131, 258, 300</td>	Cotea, V. V.	304	Muntea, C.	118, 217	Sîrghie, C.	131, 258, 300
Dabija, A. 273 Nechita, B. 304 Stoian, E. 313 Dascalescu, AE. 21 Niculaua, M. 304 Tamas, FL. 148 Diaconescu, I. 81, 86, 230 Oancea, S. 247, 319 Tanase, M. 285, 290 Diaconu, B. M. 156, 168 Oanta, E. M. 21 Tudor, D. 60 Diaconu, S. 92 Omocea, I. 72 Tudor, V. 313 Dinu, T. 313 Oroian, M. 263 Tuns, I. 148 Dochia, M. 131, 258 Panait, C. 21 Uzuneanu, K. 230 Dosa, I. 187 Panaitescu, FV. 27 Vifor, I. I. 258 Drăghici, O. 319 Panaitescu, II. 66 Vintu, V. 295 Duinea, A. M. 207, 212 Panaitescu, M. 27, 66 Vlad, Ion. M. 313 Duinea, C. 207 Panea, C. 47 Vlad, Iul. 290 Fainisi, F. 252 Patrascu, R. 81, 86 Voronca, MM.	Cruceru, M.	112, 137, 156	Năstac, C. D.	103, 152	Stanciu, M.	285, 290
Dascalescu, AE. 21 Niculaua, M. 304 Tamas, FL. 148 Diaconescu, I. 81, 86, 230 Oancea, S. 247, 319 Tanase, M. 285, 290 Diaconu, B. M. 156, 168 Oanta, E. M. 21 Tudor, D. 60 Diaconu, S. 92 Omocea, I. 72 Tudor, V. 313 Dinu, T. 313 Oroian, M. 263 Tuns, I. 148 Dochia, M. 131, 258 Panait, C. 21 Uzuneanu, K. 230 Dosa, I. 187 Panaitescu, FV. 27 Vifor, I. I. 258 Drăghici, O. 319 Panaitescu, II. 66 Vintu, V. 295 Duinea, A. M. 207, 212 Panaitescu, M. 27, 66 Vlad, Ion. M. 313 Duinea, C. 207 Panea, C. 47 Vlad, Iul. 290 Fainisi, F. 252 Patras, A. 304 Volceanov, E. 224 Felea, I. 75 Patrascu, R. 81, 86 Voronca, SL.	Cruceru, M.	162, 168, 174	Nastase, G.	193, 197	Stoia, M.	247
Diaconescu, I. 81, 86, 230 Oancea, S. 247, 319 Tanase, M. 285, 290 Diaconu, B. M. 156, 168 Oanta, E. M. 21 Tudor, D. 60 Diaconu, S. 92 Omocea, I. 72 Tudor, V. 313 Dinu, T. 313 Oroian, M. 263 Tuns, I. 148 Dochia, M. 131, 258 Panait, C. 21 Uzuneanu, K. 230 Dosa, I. 187 Panaitescu, FV. 27 Vifor, I. I. 258 Drăghici, O. 319 Panaitescu, Il. 66 Vintu, V. 295 Duinea, A. M. 207, 212 Panaitescu, M. 27, 66 Vlad, Ion. M. 313 Duinea, C. 207 Panea, C. 47 Vlad, Iul. 290 Fainisi, F. 252 Patras, A. 304 Volceanov, E. 224 Felea, I. 75 Patrascu, R. 81, 86 Voronca, MM. 162 Filipov, F. 295 Pechanec, V. 15 Voronca, SL. 162 Fratu, M. 103 Pisc, I. 156 Zamf	Dabija, A.	273	Nechita, B.	304	Stoian, E.	313
Diaconu, B. M. 156, 168 Oanta, E. M. 21 Tudor, D. 60 Diaconu, S. 92 Omocea, I. 72 Tudor, V. 313 Dinu, T. 313 Oroian, M. 263 Tuns, I. 148 Dochia, M. 131, 258 Panait, C. 21 Uzuneanu, K. 230 Dosa, I. 187 Panaitescu, FV. 27 Vifor, I. I. 258 Drăghici, O. 319 Panaitescu, II. 66 Vintu, V. 295 Duinea, A. M. 207, 212 Panaitescu, M. 27, 66 Vlad, Ion. M. 313 Duinea, C. 207 Panea, C. 47 Vlad, Iul. 290 Fainisi, F. 252 Patras, A. 304 Volceanov, E. 224 Felea, I. 75 Patrascu, R. 81, 86 Voronca, MM. 162 Filipov, F. 295 Pechanec, V. 15 Voronca, SL. 162 Fratu, M. 103 Pisc, I. 156 Zamfir, C. 304 Gaceu, L. 267 Pop, M. R. 309	Dascalescu, AE.	21	Niculaua, M.	304	Tamas, FL.	148
Diaconu, S. 92 Omocea, I. 72 Tudor, V. 313 Dinu, T. 313 Oroian, M. 263 Tuns, I. 148 Dochia, M. 131, 258 Panait, C. 21 Uzuneanu, K. 230 Dosa, I. 187 Panaitescu, FV. 27 Vifor, I. I. 258 Drăghici, O. 319 Panaitescu, II. 66 Vintu, V. 295 Duinea, A. M. 207, 212 Panaitescu, M. 27, 66 Vlad, Ion. M. 313 Duinea, C. 207 Panea, C. 47 Vlad, Iul. 290 Fainisi, F. 252 Patras, A. 304 Volceanov, E. 224 Felea, I. 75 Patrascu, R. 81, 86 Voronca, MM. 162 Filipov, F. 295 Pechanec, V. 15 Voronca, SL. 162 Fratu, M. 103 Pisc, I. 156 Zamfir, C. 304 Gaceu, L. 267 Pop, M. R. 309	Diaconescu, I.	81, 86, 230	Oancea, S.	247, 319	Tanase, M.	285, 290
Dinu, T. 313 Oroian, M. 263 Tuns, I. 148 Dochia, M. 131, 258 Panait, C. 21 Uzuneanu, K. 230 Dosa, I. 187 Panaitescu, FV. 27 Vifor, I. I. 258 Drăghici, O. 319 Panaitescu, II. 66 Vintu, V. 295 Duinea, A. M. 207, 212 Panaitescu, M. 27, 66 Vlad, Ion. M. 313 Duinea, C. 207 Panea, C. 47 Vlad, Iul. 290 Fainisi, F. 252 Patras, A. 304 Volceanov, E. 224 Felea, I. 75 Patrascu, R. 81, 86 Voronca, MM. 162 Filipov, F. 295 Pechanec, V. 15 Voronca, SL. 162 Fratu, M. 103 Pisc, I. 156 Zamfir, C. 304 Gaceu, L. 267 Pop, M. R. 309	Diaconu, B. M.	156, 168	Oanta, E. M.	21	Tudor, D.	60
Dochia, M. 131, 258 Panait, C. 21 Uzuneanu, K. 230 Dosa, I. 187 Panaitescu, FV. 27 Vifor, I. I. 258 Drăghici, O. 319 Panaitescu, II. 66 Vintu, V. 295 Duinea, A. M. 207, 212 Panaitescu, M. 27, 66 Vlad, Ion. M. 313 Duinea, C. 207 Panea, C. 47 Vlad, Iul. 290 Fainisi, F. 252 Patras, A. 304 Volceanov, E. 224 Felea, I. 75 Patrascu, R. 81, 86 Voronca, MM. 162 Filipov, F. 295 Pechanec, V. 15 Voronca, SL. 162 Fratu, M. 103 Pisc, I. 156 Zamfir, C. 304 Gaceu, L. 267 Pop, M. R. 309	Diaconu, S.	92	Omocea, I.	72	Tudor, V.	313
Dosa, I. 187 Panaitescu, FV. 27 Vifor, I. I. 258 Drăghici, O. 319 Panaitescu, II. 66 Vintu, V. 295 Duinea, A. M. 207, 212 Panaitescu, M. 27, 66 Vlad, Ion. M. 313 Duinea, C. 207 Panea, C. 47 Vlad, Iul. 290 Fainisi, F. 252 Patras, A. 304 Volceanov, E. 224 Felea, I. 75 Patrascu, R. 81, 86 Voronca, MM. 162 Filipov, F. 295 Pechanec, V. 15 Voronca, SL. 162 Fratu, M. 103 Pisc, I. 156 Zamfir, C. 304 Gaceu, L. 267 Pop, M. R. 309	Dinu, T.	313	Oroian, M.	263	Tuns, I.	148
Drăghici, O. 319 Panaitescu, II. 66 Vintu, V. 295 Duinea, A. M. 207, 212 Panaitescu, M. 27, 66 Vlad, Ion. M. 313 Duinea, C. 207 Panea, C. 47 Vlad, Iul. 290 Fainisi, F. 252 Patras, A. 304 Volceanov, E. 224 Felea, I. 75 Patrascu, R. 81, 86 Voronca, MM. 162 Filipov, F. 295 Pechanec, V. 15 Voronca, SL. 162 Fratu, M. 103 Pisc, I. 156 Zamfir, C. 304 Gaceu, L. 267 Pop, M. R. 309	Dochia, M.	131, 258	Panait, C.	21	Uzuneanu, K.	230
Duinea, A. M. 207, 212 Panaitescu, M. 27, 66 Vlad, Ion. M. 313 Duinea, C. 207 Panea, C. 47 Vlad, Iul. 290 Fainisi, F. 252 Patras, A. 304 Volceanov, E. 224 Felea, I. 75 Patrascu, R. 81, 86 Voronca, MM. 162 Filipov, F. 295 Pechanec, V. 15 Voronca, SL. 162 Fratu, M. 103 Pisc, I. 156 Zamfir, C. 304 Gaceu, L. 267 Pop, M. R. 309	Dosa, I.	187	Panaitescu, FV.	27	Vifor, I. I.	258
Duinea, C. 207 Panea, C. 47 Vlad, lul. 290 Fainisi, F. 252 Patras, A. 304 Volceanov, E. 224 Felea, I. 75 Patrascu, R. 81, 86 Voronca, MM. 162 Filipov, F. 295 Pechanec, V. 15 Voronca, SL. 162 Fratu, M. 103 Pisc, I. 156 Zamfir, C. 304 Gaceu, L. 267 Pop, M. R. 309	Drăghici, O.	319	Panaitescu, II.	66	Vintu, V.	295
Fainisi, F. 252 Patras, A. 304 Volceanov, E. 224 Felea, I. 75 Patrascu, R. 81, 86 Voronca, MM. 162 Filipov, F. 295 Pechanec, V. 15 Voronca, SL. 162 Fratu, M. 103 Pisc, I. 156 Zamfir, C. 304 Gaceu, L. 267 Pop, M. R. 309	Duinea, A. M.	207, 212	Panaitescu, M.	27, 66	Vlad, Ion. M.	313
Felea, I. 75 Patrascu, R. 81, 86 Voronca, MM. 162 Filipov, F. 295 Pechanec, V. 15 Voronca, SL. 162 Fratu, M. 103 Pisc, I. 156 Zamfir, C. 304 Gaceu, L. 267 Pop, M. R. 309	Duinea, C.	207	Panea, C.	47	Vlad, Iul.	290
Filipov, F. 295 Pechanec, V. 15 Voronca, SL. 162 Fratu, M. 103 Pisc, I. 156 Zamfir, C. 304 Gaceu, L. 267 Pop, M. R. 309	Fainisi, F.	252	Patras, A.	304	Volceanov, E.	224
Fratu, M. 103 Pisc, I. 156 Zamfir, C. 304 Gaceu, L. 267 Pop, M. R. 309	Felea, I.	75	Patrascu, R.	81, 86	Voronca, MM.	162
Gaceu, L. 267 Pop, M. R. 309	Filipov, F.	295	Pechanec, V.	15	Voronca, SL.	162
·		103	Pisc, I.	156	Zamfir, C.	304
Gavriliuc, R. 197 Popa, A. 131	Gaceu, L.	267	Pop, M. R.	309		
	Gavriliuc, R.	197	Popa, A.	131		