curriculum vitae

Personal information



Surname(s) / First name

Address

Telephone

Fax

E-mail(s)

Nationality

Date of birth

Gender

Occupational field

University professor

AGACHI PAUL SERBAN

Work experience

Dates

1970-1972

Occupation or position held

Design Engineer

Main activities and responsibilities

Projects for Chemical and Process Industry

Name and address of employer

IPROSIN Bucuresti, Piata C.A. Rosetti nr.2, Bucuresti, Romania

Type of business or sector Chemical Industry

Dates

1972-1973

Occupation or position held

System Analyst

Main activities and responsibilities

Projects for computer controlled plants in the Chemical and Process Industry

Name and address of employer

MICh, Computer Center, Splaiul Independentei nr. 202, Bucuresti, Romania

Type of business or sector Chemical Industry

Dates

1973-1980

Occupation or position held

Researcher

Main activities and responsibilities

Fuel cells, Electrochemical Processes, Projects for Chemical and Process Industry

Name and address of employer

Babes-Bolyai University, Cluj-Napoca, Str. M. Kogalniceanu nr.1, Romania

Type of business or sector

Scientific research

Dates

1980-1990

Occupation or position held

Lecturer

Main activities and responsibilities

Name and address of employer

Teaching Chemical Process Control, Optimization, Projects for Chemical and Process Industry

Babes-Bolyai University, Cluj-Napoca, Str. M. Kogalniceanu nr.1, Romania

Type of business or sector Education and Scientific research

Dates 1990-1994

Occupation or position held Associate Professor

Main activities and responsibilities Teaching Chemical Process Control, Optimization, Projects for Chemical and Process Industry

Name and address of employer Babes-Bolyai University, Cluj-Napoca, Str. M. Kogalniceanu nr.1, Romania

Type of business or sector Education and Scientific research

Dates 1994- present

Occupation or position held Professor

Main activities and responsibilities Teaching Chemical Process Control, Optimization, Artificial Intelligence, Mathematical modelling and

Simulation, Projects for Chemical and Process Industry

Name and address of employer Babes-Bolyai University, Cluj-Napoca, Str. M. Kogalniceanu nr.1, Romania

Type of business or sector Education and Scientific Research

Dates 1991-1992

Occupation or position held Visiting Associate

Main activities and responsibilities Research in Modelling, Simulation and Advanced Control Projects for Process Industries

Name and address of employer California Institute of Technology, Pasadena, CA, USA

Type of business or sector Education and Scientific Research

Member of the American Institute of Chemical Engineers

Dates April-May 1994

Occupation or position held Visiting professor

Main activities and responsibilities Teaching

Name and address of employer Eötvös Lorand University, Budapest, Hungary

Type of business or sector Education

Dates 1996-2001

Occupation or position held General Chancellor

Main activities and responsibilities Strategic Planning, Management, Structure, Reform, Charter of the University

Member of the National Commission of Quality Assurance in Higher Education

Name and address of employer Babes-Bolyai University, Cluj-Napoca, Str. M. Kogalniceanu nr.1, Romania

Type of business or sector Education

Dates 2001-2007

Occupation or position held Vice rector

Main activities and responsibilities Strategic Planning, Management, Reform, Quality Assurance, Research of the University

Name and address of employer Babes-Bolyai University, Cluj-Napoca, Str. M. Kogalniceanu nr.1, Romania

Type of business or sector Education

Dates August 2000 - September 2003

Occupation or position held Higher Education consultant

Main activities and responsibilities Reform of the Higher Education in Northern Iraq

Name and address of employer UNESCO Baghdad, program Oil for Food

Type of business or sector Higher Education Management

Dates 2004

Occupation or position held Member of the project "Design of the Methodology of Drawing the Romanian Strategy of Research

2007-2013"

Main activities and responsibilities Name and address of the employer Design a methodology for assessment and design a strategy of Romanian research sector

UEFISCDI (Executive Unit for Funding HE and Scientific Research) Bucharest

Dates 2005 - 2006

Occupation or position held Coordinator of the Working Group WP2 -- "Diagnosis of the RDI system in Romania", in the project

"Romanian RDI Strategy 2007-2013"

Member of the Working Group WP4 -- "Strategy of RDI system in Romania", in the project

"Romanian RDI Strategy 2007-2013"

Name and address of the employer

UEFISCDI (Executive Unit for Funding HE and Scientific Research) Bucharest

Occupation or position held

HE expert for education policy in Moldova

Main activities and responsibilities

HE policy

Name and address of the employer Institute for Public Policies (IPP) Chisinau

Dates 2007 - 2011

Occupation or position held President of the Academic Council of Babes-Bolyai University

Main activities and responsibilities

Strategies and policy of the university

Name and address of employer

Universitatea Babes-Bolyai Cluj Napoca

Education (ARACIS) (2007-2010)

Elected member of the Romanian Agency for Quality Assurance in Higher Education (ARACIS)

Council (2010). Higher Education Management, Evaluation and Accreditation

Evaluation and accreditation of study programs and universities

None and address of such ADACIC Dueba

Name and address of employer ARACIS Bucharest

Dates 2009 - 2011

Occupation or position held Coordinator of the WP3 and expert -- "Methodology of differentiate/ classify the universities in

Romania" in the strategic project "Quality and leadership"

Coordinator of the WP3 and expert - "Program of Research Excellence" in the universities in

Romania" in the strategic project "Doctorates in Schools of Excellence"

Coordinator Regional Center of Competence in University Management and expert POSDRU project

"IMU(Improvement of the University Management)"

Main activities and responsibilities

Main activities and responsibilities

Romanian Strategy for Higher Education. Strategic POSDRU programs

Name and address of employer UEFISCDI Bucharest

Education and training

Dates 1996 -- present

Title of qualifications awarded University manager

Principal subjects/Occupational skills Academic management, financial management, human resource management, research

covered management, strategic planning, operational planning

Name and type of organization providing organization and training

Program of Reform of Higher Education in Romania, PHARE program, 1997 – 2000

Program Building Bridges for Higher Education (USA - Association of Colleges of the South --

Association of Carpathian Region Universities), 1997 EUA program of evaluation of universities, 2003 – 2004

MATRA program for quality assurance, 2000–2003

EUA program Quality Culture in Higher Education Institutions-- Metropolitan University of Leeds

Dates 1976-1984

Title of qualification awarded PhD

Principal subjects/Occupational skills Thesis: Modelling and control of the fuel cells with petrochemical combustibles / chemical

covered engineering

Name and type of organisation providing organisation and training

University for Petroleum and Gas, Ploiesti, Romania

Level in national or international ISCED 6

classification

Dates 1970-1965

Title of qualification awarded Bachelor of Control Engineering

Principal subjects/Occupational skills - measurement and control techniques

covered

Name and type of organisation University Po

Name and type of organisation University Politehnica Bucuresti, Faculty of Automatic Control, Romania

Level in national or international ISCED 5

classification

Dates 1965-1961

Title of qualification awarded Baccalaureate
Principal subjects/Occupational skills General education

covere

National College Sfantu Sava, Bucuresti, Romania

Name and type of organisation providing organisation and training

providing organisation and training

Level in national or international

classification

ISCED 3

Personal skills and competences

Mother tongue(s) Romanian

Other language(s)

Self-assessment European level (*)

> English German

French

Russian

Understanding		Speaking		Writing
Listening	Reading	Spoken interaction	Spoken production	-
C2	C2	C2	C2	C2
B2.	B1	B2	B2	B2
C1	C1	C2	B2	B1
A2	A2	A2	A1	A2

[©] Common European Framework of Reference (CEF) level

Social skills and competences Teamwork, interpersonal skills, communication, responsibility, intercultural skills, conflict management, negotiations. Organisational skills and competences Systemic thinking, problem identification, problem solving, research and development project evaluation, planning skills, foresight planning, resources management, time management. Technical skills and competences - System theory, computer aided design, process control, modelling, simulation, applied artificial intelligence, programming; Computer skills and competences Microsoft Office, Internet, MatLab, Simulink, Primavera Artistic skills and competences History of music, history of fine arts, writing Other skills and competences Sports: national champion in yachting in 1973, skiing, football, skating, basketball, hiking and climbing, good orientation in space. Driving licence(s) B category

Additional information

Publications: 188 scientific papers (60 ISI indexed, 28 in the field of university management and education management), 8 invention patents, 80 conferences, 11 books (4 in the field of university and research management), 3 student textbooks, 2 monographs (list available on http://chem.ubbclui.ro/romana/ANEX/inginerie/cv/cv_agachi.php?afisare=publications)
28 country and international papers on University management, Evaluation, Assessment, Ranking, Multicultural aspects and organization (list available on http://chem.ubbclui.ro/romana/ANEX/inginerie/cv/cv_agachi.php?afisare=publications);

Correspondent Member of the Academy of Technical Sciences of Romania (since 2005) Member of the Technical Committee Chemical Process Control of International Federation of Automatic Control (IFAC) (since 2006)

Member of WP Computer Aided process Engineering of the European Federation of Chemical Engineering (since 2008)

Visiting professor at Universidad Mayor de San Marcos de Lima, Universidad Nacional de Ingenieria Lima, Universidad San Antonio Abad, Cuzco, Peru (2007)

Member of the Council for Quality Assurance of the Ministry of Education (1998-2000)

Member of International Ranking Expert Group (IREG) of the universities (since 2006) and of its Observatory (since 2008)

President of the Association of Carpathian Region Universities (ACRU) (since 2009)

Awarded with National Order for Merit (Pentru Merit) in rank of Comandor (2000) and Mare Offter (2008)

Member of the Council of Honour of the National Order "Pentru Merit" (2005-2008)

Awarded with Diploma of Honour and "Emilian Bratu" Medal of Romanian Society of Chemistry (2007) for contributions to the development of Chemical Engineering in Romania

Awarded with the Romanian Academy Prize, Section Technical Sciences, for the book "Model Based Control. Case Studies in Process Engineering", Wiley-VCH (2008)

Multicultural organization of Babes-Bolyai University of Cluj-Napoca, Romania, 1997; Member of the parity commission for the negotiations of the multicultural structure of the university; Coordinator of the Charter of the University, 2000, 2003; 2011 Coordinator of the Strategic Plan of Babes-Bolyai University of Cluj-Napoca 1999, 2004; 2008 Panel member for evaluation of the universities in Kazakhstan

Invited speaker at ARWU, IREG, UNICA, ESMU, DEAN, EUA, Malaysia Forum for Autonomy and Governance, Santander Group conferences

2 UNESCO papers on Higher Education on Iraqi Kurdistan in the program Oil for Food (2001, 2002) 1 UNESCO paper on Rapid Needs Assessment on Iraqi Higher Education, 2003 1 UNESCO Experts Report – "Education development and cooperation in Europe, What prospects for UNESCO", UNESCO Division for Strategies Building, 2008, ED/EPS/ 2008/PI/ 1

Symphonic music seminars for students (1975-1985); Romanian National Champion in sailing (1973) and several times vice champion

Annexes

Selected publications

- BOOK: P.Ş. Agachi, Z. K. Nagy, M.V. Cristea, A. Imre-Lucaci, Model Based Control, Case Studies in Process Engineering, Editura Wiley-VCH, ISBN 3-527-31545-4, Weinheim, 2006.
- Cormos Ana Maria, Agachi Paul Serban, Cormos Calin-Cristian, Modeling and simulation of carbonation process of ammoniacal brine solution in soda ash plant, Revista de chimie, 57(2), 2006. p.130 – 137.
- Cristea Vasile Mircea, Agachi Paul Serban, Toma Letitia, Simulation and Model Predictive Controlof the Fluid Catalitic Cracking Unit Using Artificial Neural Networks, REVUE ROUMAINE DE CHIMIE, 52(12), 2007, P.1157 – 1166.
- Mircea Vasile Cristea, Paul Şerban Agachi, Comparison Between Different Control Approaches of the UOP Fluid Catalytic Cracking Unit, Revista de Chimie, 58, (4), 2007, p.406-409..

- Ani Elisabeta Cristina, Agachi Paul Serban, Hydrogen-Oxygen PEM Fuel Cells simplified model based behaviour prediction, REVUE ROUMAINE DE CHIMIE, 53(5), 2008, P.357 — 362.
- Botar-Jid Claudiu Cristian, Agachi Paul Serban, Fissore Davide, Comparison of Reverse Flow and Counter-current Reactors in the Case of Selective Catalytic Reduction of NOx, COMPUTERS & CHEMICAL ENGINEERING, Volume 33, (3), 2009, P.782-787.
- Nagy Zoltan Kalman, Roman Raluca, Cristea Vasile Mircea, Agachi Paul Serban, Dynamic Modelling and Nonlinear Model Predictive Control of a Fluid Catalytic Cracking Unit, COMPUTERS & CHEMICAL ENGINEERING, 33, 2009, P.605 – 617.
- Avramenko Yury, Ani Elisabeta Cristina, Kraslawski Andrzej, Agachi Paul Serban, Mining of Graphics for Identification of Mechanisms of Processes, COMPUTERS & CHEMICAL ENGINEERING, 33,3, 2009, P.618 – 627, IF= 2.072.
- Barabas Reka, Agachi Paul Serban, Pop Alexandru, Bogya Erzsebet Sara, Dejeu Valentina Roxana, Kinetic studies for the transformation process of beta-whitlockite in hydroxyapatite, REVISTA DE CHIMIE, 12, 2009, P.1251 – 1253.
- Barabas Reka, Agachi Paul Serban, Pop Alexandru, Bogya Erzsebet Sara, Dejeu Valentina Roxana, Mathematical Modeling for the Crystallization Process of Hydroxyapatite Obtained by Precipitation in Aqueous Solution, STUDIA UNIVERSITATIS BABES-BOLYAI CHEMIA, 3, 2009, P.61 -- 69.
- Jara-Morante Eliana, Morar Mihaela Hilda, Agachi Paul Serban, Jara-Morante Eliana, Heat integration of an industrial fluid catalytic cracking plant, STUDIA UNIVERSITATIS BABES-BOLYAI CHEMIA, LIV, 1, 2009, P.69 – 80.
- Cristea Vasile Mircea, Roman Raluca, Agachi Paul Serban, Simulation of the Reactor-Regenerator-Main Fractionator Fluid Catalytic Cracking Unit Using Artificial Neural Networks, STUDIA UNIVERSITATIS BABES-BOLYAI CHEMIA, Vol. nr.1, 2009, P.125 – 132.
- Cormos Calin-Cristian, Agachi Paul Serban, Gasification process A practical way for solid fossil fuels decarbonisation, STUDIA UNIVERSITATIS BABES-BOLYAI CHEMIA, LIV, 2009, P.81 – 91.
- Mihet Maria, Cristea Vasile Mircea, Agachi Paul Serban, FCCU simulation based on first principle and artificial neural network models, ASIA-PACIFIC JOURNAL OF CHEMICAL ENGINEERING, Vol4, nr.6, 2009, P.878 – 885.
- Ani Elisabeta Cristina, Wallis Steve G., Kraslawski Andrzej, Agachi Paul Serban, Development, calibration and evaluation of two mathematical models for pollutant transport in a small river, ENVIRONMENTAL MODELLING & SOFTWARE, 24, 10, 2009, P.1139 – 1152.
- Cristea Vasile Mircea, Imre-Lucaci Arpad, Sipos Anca, Bratfalean Dorina, Agachi Paul Serban, Artificial Neural Networks Used for the Simulation of the Batch Fermentation Bioreactor, STUDIA UNIVERSITATIS BABES-BOLYAI CHEMIA, 4, 2009, P.87 – 95.
- Morar Mihaela Hilda, Agachi Paul Serban, The development of a MPC controller for a heat integrated fluid catalytic cracking plant, STUDIA UNIVERSITATIS BABES-BOLYAI CHEMIA, LIV, 4, 2009, P.43 – 54.
- Cristea Vasile Mircea, Roman Raluca, Agachi Paul Serban, Simulation of the Reactor-Regenerator-Main Fractionator Fluid Catalytic Cracking Unit Using Artificial Neural Networks, STUDIA UNIVERSITATIS BABES-BOLYAI CHEMIA, Vol. nr.1, 2009, P.125 – 132.
- Ani Elisabeta Cristina, Avramenko Yury, Kraslawski Andrzej, Agachi Paul Serban, Identification of pollution sources in Romanian Somes River using graphical analysis of concentration profiles, ASIAN JOURNAL OF CHEMICAL ENGINEERING, in press, 2010, P.1 – 12.
- Botar-Jid Claudiu Cristian, Agachi Paul Serban, Avramenko Yury, Kraslawski Andrzej, Casebased selection of a model of a reverse flow reactor, CHEMICAL ENGINEERING AND PROCESSING, 49(1), 2010, P.782 – 787.
- Morar Mihaela Hilda, Agachi Paul Serban, Review: Important contributions in development and improvement of the heat integration techniques, COMPUTERS & CHEMICAL ENGINEERING, 34, 8, 2010, P.1171 – 1179.
- Ani Elisabeta Cristina, Hutchins Michael G., Kraslawski Andrzej, Agachi Paul Serban, Assessment of pollutant transport and river water quality using mathematical models, REVUE ROUMAINE DE CHIMIE, 55(4), 2010, P.285 – 291.
- Ani Elisabeta Cristina, Hutchins Michael G., Kraslawski Andrzej, Agachi Paul Serban, Mathematical model to identify nitrogen variability in large rivers, RIVER RESEARCH AND APPLICATIONS, 26, 2010, P.1 – 21.
- Bratfalean Dorina, Cristea Vasile Mircea, Agachi Paul Serban, Artificial Neural Networks Used for Investigation of Fatty Acid Content of Romanian Sunflower Oilseeds Genotypes, STUDIA UNIVERSITATIS BABES-BOLYAI CHEMIA, XLV, 2, Tom II, 2010, P.245 – 254.
- 25. Dejeu Valentina Roxana, Agachi Paul Serban, Barabas Reka, Cormos Ana Maria, Bogya Erzsebet Sara, Growth rate of hydroxyapatite obtained by precipitation, STUDIA

- UNIVERSITATIS BABES-BOLYAI CHEMIA, 2, 2010, P.179 188.
- Goia(cas. Maxim) Victoria, Cormos Calin-Cristian, Agachi Paul Serban, Mathematical modeling and simulation of coal co-gasification with waste/biomass in an entrained-flow gasifier, STUDIA UNIVERSITATIS BABES-BOLYAI CHEMIA, XLV 2, 2010, P.51 – 63.
- 27. Padurean Anamaria, Agachi Paul Serban, Cormos Calin-Cristian, Cormos Ana Maria, Technical assessment of CO2 capture using alkanolamines solutions, STUDIA UNIVERSITATIS BABES-BOLYAI CHEMIA, LV, 1, 2010, P.55 63.
- 28. Ani Elisabeta Cristina, Cristea Vasile Mircea, Agachi Paul Serban, Kraslawski Andrzej, Dynamic Simulation of Someş River Pollution Using MATLAB and COMSOL Models, REVISTA DE CHIMIE, 61, 2010, P.1108 1112.
- Cristea Vasile Mircea, Nagy Zoltan Kalman, Agachi Paul Serban, Simulation of an industrial complex FCCU. Part I: Building the model and validation, Studia Universitatis Babeş-Bolyai Chemia, 2007, P.31-39.
- Cristea Vasile Mircea, Nagy Zoltan Kalman, Agachi Paul Serban, Simulation of an Industrial Complex FCCU. Part II: Study of the process dynamic behavior, Studia Universitatis Babeş-Bolyai Chemia, nr.2, 2007, P.39-47.
- Cristea Vasile Mircea, Nagy Zoltan Kalman, Agachi Paul Serban, Model Predictive Control (Linear and Nonlinear) of a Complex FCCU, Studia Universitatis Babeş-Bolyai Chemia, nr 2, 2007, P.85-93.