

DAN POLIȘEVSCI

- *Curriculum Vitae* -

Date and place of birth: 16 may 1953, București

Address: Șos. Ștefan cel Mare 27, ap.51, 72202 București, Romania

Mailing address: P.O.Box 1-764, RO-70700 București, Romania

Telephone: 004-0216104061 (home); 004-0723179847 (mobile); 004-0212125648 (institute)

e-mail: danpolise@yahoo.com, polise@stoilow.imar.ro

PRESENT POSITION

- Senior Researcher I (since 1997) at the "*Simion Stoilow*" *Institute of Mathematics of the Romanian Academy*, București

PREVIOUS POSITIONS

- Mathematician (1977-1979) at the *Institute of Fluid Mechanics*, București

- Researcher (1979-1990) at the Department of Mathematics of *INCREST*, București

- Senior Researcher II (1990-1997) at the *Institute of Mathematics of the Romanian Academy*, București

- Professor (2003-2011) at the *University of Pitești, Faculty of Mathematics and Informatics*

EDUCATION

-Faculty of Mathematics, *University of București* (1972-1976) with the license thesis "Homeographic methods approximating the transonic flows" (supervisor: Caius Iacob)

-Specialization in Fluid Mechanics (1976-1977), *Faculty of Mathematics, University of București*, with the specialization thesis "Direct methods in the study of transonic flows" (supervisor: Caius Iacob)

-Doctoral degree in Mathematics (1980-1983), *Central Institute of Mathematics, București*, with the doctoral thesis "Contributions to the study of thermal problems in porous media" (supervisor: H.I. Ene)

FOREIGN LANGUAGES

- English: good

- French: good.

SCIENTIFIC DOMAINS OF INTEREST

- Homogenization theory: 35B27, 35B40, 41A60, 76M50

- Microperiodic structure optimization: 49J45, 49Q10, 74A50, 74Qxx

- Heat and mass transfer in porous media: 76S05, 78A48, 78M40, 80M40

- Diffusion and convection: 76E15, 76E30, 76R10, 76R50

RESEARCH

- I am member of the "Continuum Mechanics" group of the "S. Stoilow" institute, my research activity being mainly dedicated to the mathematical modeling of physical phenomena

- I participated at programs of the National Authority for Scientific Research: CERES, CeEx-189, CeEx-198, 2CeEx 06-11-97 and CeEx-320

- I participated at programs of the European Commission: HMS-2000 ("Homogenization and multiple scales") and FP5 ("EURROMMAT")

- I was manager of the CNCSIS-844 (2004-2007) project "Mathematical model and numerical study of the mechanical and thermodynamical phenomena in heterogeneous media" of the National Council for Scientific Research in High Education

- I participated as PhD supervisor at the POSDRU (2012-2014) project "Doctoratul in stiinte fundamentale - inceputul unei cariere de varf in cercetare"

- I participate at the GDRI ECO MATH (2018-2021) project "Problèmes de transport de masse et de chaleur dans des milieux poreux"

- I participate at two scientific seminars: *Functional Methods in Fluid Mechanics* (Institute of Mathematics "S.Stoilow", București) and *Deformable Body Mechanics* (University of București and Institute of Mathematics "S.Stoilow", București)

Ph.D. SUPERVISION

I was supervising the activity of three Ph.D. students:

- Adina Dumitru (admission 2005) - expelled from doctoral program in 2016

- Cristian Cotoarba (admission 2009) - expelled from doctoral program in 2015

- Florentina Alina Stanescu (admission 2010) - sustained the thesis "Contributions to the homogenization of heterogeneous media", Institute of Mathematics "S.Stoilow", București, 2014

TEACHING

- seminars on Mechanics, Rational Mechanics, Mechanics of Viscous Fluids and Filtration Theory (Faculty of Mathematics, University of București, 1981-1986)

- courses and seminars on Filtration Theory and Homogenization (Master level) (Faculty of Mathematics, University of București, 1990-1993)

- courses and seminars on Mathematical Analysis (Undergraduate level) and Equations of Mathematical Physics (Master level) (Faculty of Science, University "J. Monnet", Saint-Etienne, 1994-1996)

- course and seminars on Homogenization Theory (Master level) (Faculty of Mathematics and Informatics, University of Pitești, 2003-2011)

INVITED POSITIONS

- Research Fellowship at "S. Banach" Mathematical Center, Warsaw, 1981 and 1984

- Research Fellowship at "V. A. Steklov" Mathematical Institute, Moscow, 1982

- Research Position at the Center of Mathematics and Fundamental Applications of Lisbon, 1991-1992

- Research Position at the University of Metz, 1993

- Invited Professor at the University "J. Monnet", Saint-Etienne, 1994

- Associated Professor at the University "J. Monnet", Saint-Etienne, 1994-1997

- Research Fellowship at the University "C. Bernard", Lyon, 2002

- Invited Professor at the University of Metz, 2003

- Research Fellowship at Ecole Polytechnique de Lausanne, 2004

- Invited Professor at the Weierstrass Institute for Applied Analysis and Stochastics, Berlin, 2006

- Invited Professor at IRMAR, University Rennes1, Rennes, 2004-2012

- Invited missions at IRMAR, University Rennes1, Rennes, 2013-2015, 2017-2019

CONFERENCE ACTIVITIES

1. Home

- lecture at "EUROMECH-178", București, 1984

- communication at "New Trends in Continuum Mechanics", Constanța, 2003

- communication at the 28th and 29th "Caius Jacob Conference on Fluid Mechanics and its Technical Applications", București, 2005 and Brașov, 2006

- lecture at "2nd Workshop Series on Applied Mathematics", Pitești, 2007

- member of the Scientific Committee and communication at "Exploratory Workshop on Asymptotic Analysis and Applications in Continuum Mechanics", Brașov, 2008

- member of the Scientific Committee at "First Doctoral Student Workshop in Mathematics", Pitești, 2009
- lectures at "Workshop on Asymptotic Analysis and Stochastic Methods for Heterogeneous Media", Alba Iulia, 2010
- communication at the International Conference of Aerospace Sciences "Aerospatial 2012", București, 2012
- communication at the Conference "Faculty of Sciences - 150 years", București 2013
- communications at "The 6th Workshop series on Mathematics", Pitești, 3-4 June 2016
- communication at 11th and 13th "Colloque Franco-Roumain de Mathématiques Appliquées", București, 2012 Iași, 2016
- member of the Scientific Committee and communications at the 32nd-34th and 36th-37th "Caius Iacob Conference on Fluid Mechanics and its Technical Applications", București, 2009, 2011, 2012, 2015, 2017
- - communication at 6th, 8th and 9th "Congress of Romanian Mathematicians", București, 2007 Iași, 2015 Galați, 2019

2. Abroad

- lecture at "Oleinik-Seminar", Lomonosov University, Moscow, 1982
- communication at International School on Evolution Equations (EVEQ), Dobrichovice, Czechoslovakia, 1984
- communication at Biennial Fluid Dynamics Symposium, Sobieszewo, Poland, 1985
- communication at Fifth National Congress on Theoretical and Applied Mechanics, Varna, Bulgaria, 1985
- lecture at Center of Mathematics and Fundamental Applications, Lisbon, 1991
- lectures at the Department of Mathematics of the University of Coimbra, Portugal, 1992
- lecture at NATO Advanced Research Workshop: "Topology Design of Structure", Sesimbra, Portugal, 1992
- lecture at the Franco-German Session, University of Metz, 1993
- lecture at the University "C. Bernard", Lyon, 1994
- lectures at the CNRS Workgroup of the teams of Saint-Etienne and Lyon, 1993-1996
- communication at the Colloquy "Les Journées de Metz", University of Metz, 2002
- lecture at the CNRS Workgroup (CDCSP), Lyon, 2002
- lecture at the CNRS Workgroup (MMAS), Metz, 2003
- lecture at "Séminaire de Mécanique de l'IRMAR", University Rennes1, Rennes, 2004
- communication at "Colloque Inter-regional de Mathématiques", Liège, 2005
- lecture at "Langenbach - Seminar", Weierstrass Institute for Applied Analysis and Stochastics, Berlin, 2006
- lecture at "Colloquiums de l'IRMAR", University Rennes1, Rennes, 2006
- lecture at "Seminaire du Laboratoire J.-L. Lions", Paris, 2012
- communications at 8th, 10th, 12th and 14th at "Colloque Franco-Roumain de Mathématiques Appliquées", Chambéry, 2006 Poitiers, 2010 Lyon, 2014, Bordeaux, 2018

AWARDS

- "Simion Stoilow Prize 1987" - awarded by the Romanian Academy for the contribution to the mathematical theory of convection in porous media

MEMBERSHIP IN PROFESSIONAL SOCIETIES

- member - *The Romanian Mathematical Society, American Mathematical Society*
- reviewer - since 1983 I have reviewed more than four hundred books and papers for *Mathematical Reviews (AMS)* and *Zentralblatt fur Mathematik (Springer-Verlag)*