

DAN POLIȘEVSCI

- *Curriculum Vitae* -

Date and place of birth: 16 may 1953, Bucharest

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PRESENT POSITION

- Senior Researcher I (since 1997) at the "*Simion Stoilow*" *Institute of Mathematics of the Romanian Academy*, Bucharest
- Professor (since 2003) at the *University of Pitesti, Faculty of Mathematics and Informatics*

PREVIOUS POSITIONS

- Mathematician (1977-1979) at the *Institute of Fluid Mechanics*, Bucharest
- Researcher (1979-1990) at the Department of Mathematics of *INCREST*, Bucharest
- Senior Researcher II (1990-1997) at the *Institute of Mathematics of the Romanian Academy*, Bucharest

EDUCATION

- Faculty of Mathematics, University of Bucharest (1972-1976) with the final work "**Homeographic methods approximating the transonic flows**" (supervisor: Caius Iacob)
- Specialization in Fluid Mechanics, Faculty of Mathematics, University of Bucharest (1976-1977) with the final work "**Direct methods in the study of transonic flows**" (supervisor: Caius Iacob)
- Doctoral degree in Mathematics, Central Institute of Mathematics, Bucharest (1980-1983) with the 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 team devoted to the mathematical modeling of fluid mechanics, part of the "Continuum Mechanics" research group of the "Simion Stoilow" Institute of Mathematics of the Romanian Academy
- I have worked at two programmes of the European Commission: "Homogenization and multiple scales" (HMS-2000) and "EURROMMAT" (FP5)

- I was manager of the CNCSIS-844 (2004-2007) project of the National Council for Scientific Research in High Education: "Mathematical model and numerical study of the mechanical and thermodynamical phenomena in heterogeneous media"
- in the last years I have worked at several programmes of the National Authority for Scientific Research: CERES, CeEx-189, CeEx-198, 2CeEx 06-11-97 and CeEx-320
- I participate regularly at two scientific seminars: *Functional Methods in Fluid Mechanics* (Institute of Mathematics) and *Continuum Mechanics* (University of Bucharest)

Ph.D. SUPERVISION

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

- Adina Dumitru (admission 2005)
- Cristian Cotoarba (admission 2009)
- Florentina Alina Stanescu (admission 2010)

TEACHING

- seminars on Mechanics, Rational Mechanics, Mechanics of Viscous Fluids and Filtration Theory (Faculty of Mathematics of the University of Bucharest, 1981-1986)
- courses and seminars on Filtration Theory and Homogenization (Faculty of Mathematics of the University of Bucharest, 1990-1993)
- courses and seminars on Mathematical Analysis and Equations of Mathematical Physics (Faculty of Science, University "J. Monnet", Saint-Etienne, 1994-1996)
- course and seminars (Master level) on Homogenization Theory (Faculty of Mathematics and Informatics, University of Pitesti, 2003-2010)

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, 2004-2010

CONFERENCE ACTIVITIES

1. Home

Since 1978 I have participated at most of the conferences on Mechanics and Applied Mathematics organized in Romania. For instance:

- lecture at "EUROMECH-178", Bucharest, 1984
- communication at "New Trends in Continuum Mechanics", Constantza, 2003
- communication at "28th Caius Jacob Conference on Fluid Mechanics and its Technical Applications", Bucarest, 2005
- communication at "29th Caius Jacob Conference on Fluid Mechanics and its Technical Applications", Brasov, 2006
- lecture at "2nd Workshop Series on Applied Mathematics", Pitesti, 2007

- communication at "6th Congress of Romanian Mathematicians", Bucarest, 2007
- member of the Scientific Committee and communication at "Exploratory Workshop on Asymptotic Analysis and Applications in Continuum Mechanics", Brasov, 2008
- member of the Scientific Committee at "First Doctoral Student Workshop in Mathematics", Pitesti, 2009
- member of the Scientific Committee and communication at "32th Caius Jacob Conference on Fluid Mechanics and its Technical Applications", Bucharest, 2009
- lectures at "Workshop on Asymptotic Analysis and Stochastic Methods for Heterogeneous Media", Alba Iulia, 2010

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 of 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 Journees de Metz", University of Metz, 2002
- lecture at the CNRS Workgroup (CDCSP), Lyon, 2002
- lecture at the CNRS Workgroup (MMAS), Metz, 2003
- lecture at "Sminaire de Mcanique de l'IRMAR", University "Rennes1", Rennes, 2004
- communication at "Colloque Inter-regional de Mathmatiques", Liege, 2005
- lecture at "Langenbach-Seminar", Weierstrass Institute for Applied Analysis and Stochastics, Berlin, 2006
- communication at "Colloque Franco-Roumain de Mathmatiques Appliques", Chambéry, 2006
- lecture at "Colloquiums de l'IRMAR", University "Rennes1", Rennes, 2006

AWARDS

- 1987 Simion Stoilow Prize : 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*
- member - *American Mathematical Society*
- reviewer - since 1983 I have reviewed about three hundred books and papers for *Mathematical Reviews (AMS)* and *Zentralblatt fur Mathematik (Springer-Verlag)*