

CURRICULUM VITAE

Dr. IOAN POP

Professor of Applied Mathematics

Member of Agder Academy of

Science and Letters, Norway

Faculty of Mathematics and Computer Science

Babeş-Bolyai University

400084 Cluj-Napoca

Romania

Personal data:

Date of birth: June 14, 1937, Reghin/Romania

Citizenship: Romanian

Marital status: Married, father of one child

Address (private): Str. Peana, nr. 5, bloc R15, apt. 15, R-400541 Cluj, Romania

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Education:

Student, Faculty of Mathematics and Physics, University of Cluj, 1957-1962

Ph.D., Faculty of Mathematics, University of Bucharest (Romania), 1970

Professional experience:

Research Assistant, Faculty of Mathematics and Mechanics, Babeş-Bolyai University, Cluj-Napoca,
October 1962 - September 1970

Lecturer, Faculty of Mathematics, Babeş-Bolyai University, Cluj-Napoca, September 1970 - October
1990

Associate Professor, Faculty of Mathematics and Computer Science, Babeş-Bolyai University, Cluj-
Napoca, October 1990 – October 1992

Professor, Faculty of Mathematics and Computer Science, Babeş-Bolyai University, Cluj-Napoca,
October 1992 – October 2004

Emeritus Professor, Faculty of Mathematics and Computer Science, Babeş-Bolyai University, 400084
Cluj-Napoca, October 2004 – Present

Fields of interest:

Applied Mathematics: fluid mechanics and heat transfer with application to the boundary-layer theory, heat transfer in Newtonian and non-Newtonian fluids, magnetohydrodynamics and convective flow in fluid-saturated porous media. The detailed modeling of geothermal formations or pollutant dispersion in groundwater flows requires accurate simulations of the flows which are induced or modified by buoyancy. Often such applications may be idealized as external boundary layer flows or cavity flows, but imperfections in the form of non-uniform permeability, layering, etc. are frequently present in real systems. Such imperfections play the role of altering overall flow and convection characteristics such as plan form selection (of interest to mathematicians) and overall rate of heat transfer (of interest to engineers). Analytical and numerical methods which I have used for porous media flows have been applied to clear (Newtonian), non-Newtonian flows and micropolar fluids. During the last five years I have a strong interest in the very new (hot) topic of **nanofluids**, where I published more than **189** papers in ISI journals since 2010 until present, an invited chapter and a book.. I work consistently in order to improve my skills and I have a leaning attitude. Also, I am keenly interested in widening the field of my research work so as to fully exploit my mental capabilities and derive a sense of accomplishment.

Teaching experience:

Theoretical mechanics, fluid mechanics, heat transfer, boundary-layer theory, differential and integral calculus and courses for staff and departmental development: Effective master and Ph.D. supervision, teaching courses and conducting seminars for the students, preparing books for publication, writing proposals for grant funding, writing up own and joint research papers for publication, exploring creative ideas, effective learning and teaching methods in small groups, confidence in presentation skills, review and evaluation papers for publication, developing and managing research groups, supporting students and young researchers.

Honours:

1. *Research prize* awarded in 1968 by the Romanian Ministry of Education and Science
2. *Gheorghe Lazar prize* awarded in 1983 by the Romanian Academy of Science for the book *Unsteady Boundary Layer Theory* (in Romanian)
3. *Opera Ominia prize* awarded in 2002 by the Romanian Ministry of Education and Science for long outstanding teaching and research activities
4. Emerald **LiteratiNetwork** 2004: Outstanding Paper Award presented to I. Pop, T. Grosan and M. Kumari for the paper: *Mixed convection along a vertical cone for fluids of any Prandtl number: case of constant wall temperature*, International Journal of Numerical Methods for Heat & Fluid Flow, Vol. 13, No. 7, pp. 815-829, 2003
5. Emerald **LiteratiNetwork** 2004: Outstanding Paper Award presented to Y.Y. Lok, N. Amin, D. Campean and I. Pop for the paper: *Steady mixed convection flow of a micropolar fluid near the stagnation point on a vertical surface*, International Journal of Numerical Methods for Heat & Fluid Flow, Vol. 15, No. 7, pp. 654-670, 2005.
6. *Member of Agder Academy of Science and Letters*, Norway, 2005
7. *Spiru Haret prize* awarded in 2006 by the Romanian Academy of Science for the book *Low Reynolds Number Viscous Incompressible Flow: Theory Methods and Applications*. WIT Press, Southampton, 2004.
8. Emerald **LiteratiNetwork** 2009: Outstanding Paper Award presented to N.F. Abd Kadir, D.A.S. Rees and I. Pop for the paper: *Conjugate forced convection flow past a circular cylinder with internal heat generation which is embedded in a porous medium*. International Journal Numerical Methods in Heat and Fluid Flow, Vol. 18, No. 6, pp. 730-744, 2008.
9. Emerald **LiteratiNetwork** 2010: Outstanding Paper Award presented to Simon D. Harris, Derek B. Ingham and I. Pop for the paper: *Impulsive Falkner-Skan flow with constant wall heat flux: revisited*, International Journal Numerical Methods in Heat and Fluid Flow, Vol. 19, No. 8, pp. 1008-1037, 2009.
10. Emerald **LiteratiNetwork** 2011: Outstanding Reviewer Award presented to Professor Ioan POP for work: International Journal Numerical Methods in Heat and Fluid Flow, 2010.
11. Emerald **LiteratiNetwork** 2012: Outstanding Paper Award presented to A.M. Rohni, S. Ahmad and I. Pop for the paper *Boundary layer flow over a moving surface in a nanofluid beneath a uniform free stream*, International Journal Numerical Methods in Heat and Fluid Flow, Vol. 21, No. 7, pp.

828-846, 2011.

12. Emerald **LiteratiNetwork** 2012: Outstanding Reviewer Award presented to Professor Ioan POP for work on International Journal of Numerical Methods for Heat & Fluid Flow, 2011
13. Ioan POP, Distinguished Reviewer of Zentralblatt MATH, 2014
14. Emerald **LiteratiNetwork** 2016: Outstanding Reviewer Award is awarded to Prof. Ioan Pop
15. Emerald **LiteratiNetwork** 2017: Outstanding Reviewer Award is awarded to Prof. Ioan Pop
16. **Ioan M. Pop** and Teodor Grogan: Award for Excellence in Global Contribution, Scopus Awards Romania, 2017.

Society memberships:

1. Member of the Romanian Mathematical Society
2. Member of the German Society of Applied Mathematics and Mechanics (GAMM)
3. Fellow of the Alexander von Humboldt Foundation (Germany) in 1973/1974, 1985, 1990 and 2002
4. Fellow of Wessex Institute of Great Britan, since 2004
5. Member of Agder Academy of Science and Letters, Norway, since 2005

Research activities:

Publications: 10 books, 9 review chapters, more than 850 research journal papers published in different national and international journals and Proceedings of Conferences. In the last 11 years (2006-2017) there are more than 500 published or online ISI papers and there are more than 8000 citations in the last 15 years. My *h* (Hirsh) index for July/2016 is 50 and I was named a “*Thomson Reuters Highly Cited Researcher*” for 2015 and 2016. It should be mentioned that these papers are published in very high quality journals, such as: Journal of Fluid Mechanics, Physics of Fluids, Journal of Engineering Mathematics, Journal of Heat Transfer, Acta Mechanica, International Journal of Engineering Science, International Journal of Heat and Mass Transfer, International Communications in Heat and Mass Transfer, International Journal of Thermal Science, Journal of Porous Media, Transport in Porous Media, Quaterly Journal of Mechanics and Applied Mathematics, International Journal of Engineering Mechanics, Chemical Engineering, Fluid Dynamics Research, Wärme- und Stoffübertragung, Heat and Mass Transfer, European Journal of Mechanics: B/Fluids, Applied Scientific Research, Journal of Applied Mathematics and Mecanics (ZAMM), Journal of Applied Mathematics and Physics (ZAMP), AIAA Journal of

Thermophysics and Heat Transfer, Indian Journal of Physics, Indian Journal of Pure and Applied Mathematics, Mechanics Research Communications, International Journal of Non-Linear Mechanics, International Journal for Numerical Methods in Heat and Fluid Flow, Mechanics Research Communications, Engineering Translation (Poland), Magnitnaia Ghidrodinamika, Archives of Mechanics (Poland), Meccanica (Italy), Journal Institute of Mathematics and its Applications (UK), International Journal of Applied Mechanics and Engineering (Poland), Magnetohydrodynamics (Lithuania), Journal of Malaysian Science, Canadian Journal of Physics, Arabian Journal of Engineering Sciences, etc.

The most cited 11 ISI papers are the following:

1. W.A. Khan and **I. Pop**, *International Journal of Heat and Mass Transfer* **53** (2010) 2477-2483. Cited **369** times.
2. O. Mahian, A. Kianifar, S.A. Kalogirou, **I. Pop** and S. Wongwises *Int. J. Heat Mass Transfer* **57** (2013) 582-594.
3. J. Cheng, S.J. Liao and **I. Pop**, *Transport in Porous Media* **61** (2005) 365-379. Cited **36** times.
4. T. Basak, S. Roy, T. Paul and I. Pop, *Int. J. Heat Mass Transfer* **49** (2006) 1430-1441. Cited **29** times.
5. N.H. Saeid and **I. Pop**, *Journal of Porous Media* **8** (2005) 55-63. Cited **23** times.
6. Y.Y. Lok, N. Amin, D. Campean and **I. Pop**, *Int. J. Num. Meth. Heat Fluid Flow* **15** (2005) 654-670. Cited **17** times.
7. A. Misirlioglu, A.C. Baytas and **I. Pop**, *Int. J. Heat Mass Transfer* **48** (2005) 1840-1850. Cited **17** times.
8. S.A. Khashan, A.M. Al-Amiri and **I. Pop**, *Int. J. Heat Mass Transfer* **49** (2006) 1039-1049. Cited **16** times.
9. A. Ishak, R. Nazar and **I. Pop**, *Fluid Dynamics Research* **38** (2006) 489-502. Cited **15** times.
10. H. Xu, S.-J. Liao and **I. Pop**, *Int. J. Non-Newtonian Fluid Mech.* **139** (2006) 31-43. Cited **14** times.
11. A. Ishak, R. Nazar and **I. Pop**, *Chinese Physics Letters* **24** (2007) 2274-2276. Cited **12** times.
12. H. Xu, S.-J. Liao and **I. Pop**, *European J. Mech. B/Fluids* **26** (2007) 15-27. Cited **12** times.

Books:

1. P. Bradean, **I. Pop** and D. Bradean, *Problems of Theoretical Mechanics* (in Romanian). Ed. Tehnică București, Romania, 1979.
2. **I. Pop**, *Unsteady Boundary Layer Theory* (in Romanian). Ed. Stiințifică și Enciclopedică, București, Romania, 1983.
3. D.B. Ingham and I. Pop (eds.), *Transport Phenomena in Porous Media*. Pergamon, Oxford, 1998.
4. D.B. Ingham and **I. Pop** (eds.), *Transport Phenomena in Porous Media*. Pergamon, Oxford, Vol. II, 2002.
5. **I. Pop** and A. Postelnicu, *Modern and Classical Problems in the Laminar Boundary Layer Theory* (in Romanian). Editura Studia Press, Cluj, Romania, 1999.

6. **I. Pop** and D.B. Ingham, *Convective Heat Transfer: Mathematical and Computational Viscous Fluids and Porous Media*. Pergamon, Oxford, 2001.
7. M. Kohr and **I. Pop**, *Low Reynolds Number Viscous Incompressible Flow: Theory, Methods and Applications*. WIT Press, Southampton, 2004.
8. D.B. Ingham, A. Bejan, E. Mamut and **I. Pop** (eds.), *Emerging Technologies and Techniques in Porous Media*. Kluwer, 2004.
9. D.B. Ingham and **I. Pop** (eds.), *Transport Phenomena in Porous Media III*. Elsevier, Oxford, 2005.
10. A. Shenoy, M.A. Sheremet and I. Pop, *Flow and Heat Transfer past Wavy Surfaces: Viscous Fluids, Porous Media and Nanofluids*, CRC Press, Taylor & Francis Group, New York, 2016.

Invited Chapters

1. **I. Pop**, D.B. Ingham and J.H. Merkin, Transient convective heat transfer in external flow. In: *Advances in Fluid Mechanics*, Vol. 19: *Time-Dependent Nonlinear Convection* (P. Tyvand, ed.). Computational Mechanics Publications, Southampton, Chapter 3, pp. 83-114, 1998.
2. **I. Pop**, D.B. Ingham and J.H. Merkin, Transient convection heat transfer in a porous medium: external flows. In: *Transport Phenomena in Porous Media* (D.B. Ingham and **I. Pop**, eds.). Pergamon, Oxford, pp. 205-231, 1998.
3. R. Bradean, P.J. Heggs, D.B. Ingham and **I. Pop**, Convective heat flow from suddenly heated surfaces embedded in porous media. In: *Transport Phenomena in Porous Media* (D.B. Ingham and **I. Pop**, eds.), Pergamon, Oxford, pp. 411-438, 1998.
4. **I. Pop** and A. Nakayama, Conjugate free and mixed convection heat transfer from vertical fins embedded in porous media. In: *Recent Advances in Analysis of Heat Transfer for FinType Surfaces* (B. Sunden and P.J. Heggs, eds.). Computational Mechanics Publications, Southampton, Chapter 4, 67-96, 1999.
5. **I. Pop** and D.B. Ingham, Convective boundary layers in porous media: external flows. In: *Handbook of Porous Media* (K. Vafai, ed.). Begell House, New York, Chapter 7, pp. 313-356, 2000.
6. **I. Pop**, J.H. Merkin and D.B. Ingham, Chemically driven convection in porous media. In: *Transport Phenomena in Porous Media II* (D.B. Ingham and **I. Pop**, eds.). Pergamon,
7. **I. Pop**, Unsteady and steady free and mixed convection boundary-layer flows in porous media. In: *Proceedings of the NATO Advanced Study Institute on Porous Media*, Neptun-Olimp, Romania, June 10-20, 2003 (D.B. Ingham, ed.), pp. 426-448.
8. **I. Pop**, Some boundary-layer problems in convective flow in porous media. In: *Emerging Technologies and Techniques in Porous Media* (D.B. Ingham, A. Bejan, E. Mamut and **I. Pop**, eds.). Kluwer, Dordrecht, The Netherlands, pp. 65-91, 2004. Oxford, pp. 341-364, 2002.
9. D.A.S. Rees and **I. Pop**, Local thermal non-equilibrium in porous medium convection. In: *Transport Phenomena in Porous Media*, Vol. III (D.B. Ingham and **I. Pop**, eds.), Elsevier, Oxford, pp. 147 – 173, 2005.
10. K. Khanafer, A. Al-Amiri, **I. Pop** and J.L. Bull, Flow and Heat Transfer in Biological Tissues: Application of Porous Media Theory. In: *Emerging Topics in Heat and Mass Transfer in Porous Media* (P. Vadasz, ed.). Springer, New York, 2008, pp. 237 - 259.
11. Teodor Groșan, Mikhail A. Sheremet and **Ioan Pop**, Heat transfer enhancement in cavities filled with nanofluids. In: *Advances in Heat Transfer Fluids: from Numerical to Experimental*

Techniques (A.A. Minea, editor). CRC Press, Taylor & Francis, New York, pp. 267-284, 2017.

It should be mentioned that my papers are quoted by different very active researchers in fluid mechanics and heat transfer theory in books and research papers, such as in the prestigious book by D.A. Nield and A. Bejan: **Convection in Porous Media** (Springer, New York, 1992, 1999, 2006 and 2013), in the book by A. Nakayama: **PC-Aided Numerical Heat Transfer and Convective Flows**, CRC Press, Tokyo, 1995, in the famous book by H. Schlichting and K. Gersten: **Grenzschicht-Theorie** (9th edition), published in 1997 (in Germany) and in 2000 (in English) by Springer, Berlin, and in the recent book edited by A. Bejan and A.D. Kraus: **Heat Transfer Handbook**, Wiley, New York, 2003.

Professional services:

Member of the Editorial Board of the journals:

1. Journal of Theoretical and Applied Fluid Mechanics
2. International Journal of Applied Mechanics and Engineering
3. Hybrid Methods in Engineering
4. International Journal of Heat and Mass Transfer
5. International Communications of Heat and Mass Transfer
6. Journal of Porous Media
7. Journal of Pure and Applied Physics
8. International Journal of Numerical Methods for Heat and Fluid Flow
9. Journal of Malaysian Science
10. Pacific Rim Journal of Mathematical Sciences
11. Journal of Energy Heat and Mass Transfer
12. The Open Transport Phenomena Journal
13. International Journal of Thermal Sciences
14. Journal of Quality Measurement and Analysis. Universiti Kebangsaan Malaysia

Supervised, co-supervised and examination of PhD theses:

I have supervised 6 PhD students at the Babeş-Bolyai University of Cluj-Napoca up to now, co-supervised more than 20 PhD students (University of Leeds, UK, Ohio State University, USA, University of Regina, Canada, University Technology Malaysia, National State University, Malaysia,

University Putra Malaysia, Quaid-i-Azam University, Pakistan, Anna University, India, etc. and have been an external examiner for more than 50 PhD theses.

Director of the Centre for Excellence in Mechanics of the Romanian National Research Council: (since 2001). This Center has been classified the second one with **88.5** points out of four existing such centre in Romania

Conferences and workshops attended:

I have attended a large number of national and international conferences and workshops to present research papers. Also, delivered invited talks in the International Seminar on Convection in Porous Media (Dubrovnik, Yugoslavia, 1991), 2nd Baltic Heat Transfer Conference (Riga, Latvia, 1995), International Symposium on Transient Convective Heat Transfer (Cesme, Turkey, 1996), 4th Int. Symposium on Heat Transfer (Beijing, 1996), IMA Conference on Mathematics of Heat Transfer (Bradford, England, 1998), Romanian National Conferences of Fluid Mechanics (Cluj-Napoca, 1998; Brasov, 1999 and Iasi, 2000), International Conference on Computational Heat and Mass Transfer (Famagusta, North Cyprus, 1999), 12th Turkish National Conference on Thermal Sciences and Technologies (Sakarya, Turkey, 2000), Conferences of German Applied Mathematics and Mechanics (1974, 1992, 1994, 1996, 2000 and 2001), International Summer School of Porous Media, Neptun, Romania, July 24 to 29, 2001, 12th International Heat Transfer Conference, Grenoble, 18-23 August, 2002, the International Symposium of Thermal Science and Engineering, October 23 to 26, Beijing and International Symposium on Transient Convective Heat and Mass Transfer in Single and Two-Phase Flows, Cesme, Turkey, August 17-22, 2003, NATO ASI Emerging Technologies and Techniques in Porous Media, Neptun-Olimp, Romania, 2003, International Mechanical Engineering Conference & Expo, December 5-8, 2004, Kuwait, International Conference on Computational Heat and Mass Transfer, Paris, May 17-20, 2005 and 3rd International Conference on Applications of Porous Media, May 29-June 3, 2006, Marrakech, Morocco, 5th International Conference on Computational Heat and Mass Transfer, June 18-22, 2007, Canmore, Alberta, Canada, 4th Int. Conf. on Applications of Porous Media, Yedipete University, Istanbul, Turkey, August 19-24, 2009, 6th Int. Conf. on Computational Heat and Mass Transfer, Guangzhou, China, May 18-22, 2009, The 3rd International Conference on Mathematical Sciences, December 17-19, 2013, Kuala Lumpur, Malaysia, 8th Int. Conference on

Computational Heat and Mass Transfer, Istanbul, Turkey, May 25-28, 2015, 9th *Int. Conference on Computational Heat and Mass Transfer*, Cracow, Poland, May 23-26, 2016.

Invited lectures:

Technical University of Hannover (Germany) 1974, University of Bochum (Germany) 1974 and 1990, Technical University of Munich (Germany) 1985, Duke University (USA) 1988, University of Chicago Illinois (USA) 1988, North Caroline State University (USA) 1988, University of Novi-Sad (Jugoslavia) 1991, Tohoku National Industrial Research Institute (Japan) 1992, Iwate University (Japan) 1992, Shizuoka University (Japan) 1992, University of Osaka Prefecture (Japan) 1992, Istanbul Technical University (Turkey) 1999 and 2000, University of Dhaka (Bangladesh) 1999, International Summer School of Porous Media, Neptun (Romania) 2001, where I delivered 4 lectures, Nan Yiang Technological University (Singapore) 2001, Department of Aerodynamics and Fluid Mechanics of the Brandenburg Technical University Cottbus (Germany) 2002, Shanghai Jiao Tong University (China) 2002, Vienna University of Technology (Austria) 2002, University Technology Malaysia (Johor Bahru) 2003, and NATO ASI Emerging Technologies and Techniques in Porous Media, Neptun-Olimp, Romania, 2003, International Mechanical Engineering Conference & Expo, December 5-8, 2004, Kuwait, International Conference on Advances in Applied Mathematics (ICAAM-05), February 24-26, 2005, Gulbarga University, India, Seminal Series in Mathematics: Computational Mathematics and Statistics. Institute of Mathematical Sciences, Faculty of Science, University of Malaya, Kuala Lumpur, Malaysia, 21-23 May, 2008, COMSTECH, Islamabad, Pakistan, 2012 and The 22nd International Conference of Mechanical Engineering of Iran, Shahid Chamran University of Ahvaz, 22-24 April 2014, Ahvaz, Iran.

Member of the Committees for organizing National and International Conferences:

1. Conference on Applied Mathematics. Sylhet, International Symposium on Transient Convective Heat Transfer, 19-23 August, 1996, Cesme, Turkey.
2. IMA Conference on Mathematics of Heat Transfer, 29 June - 2 July, 1998, Bradford, England.
3. National Conference of Fluid Mechanics, 18-20 September, 1998, Cluj-Napoca, Romania.
4. 12th Turkish National Heat Transfer Conference, 28-29 February, 2000, Sakaya, Turkey.
5. International Conference on Applied Mathematics, 22-28 August, 2000, Sylhet, Bangladesh
6. 2nd International Conference on Computational Heat and Mass Transfer, 22-26 October, 2001, Rio

de Janeiro, Brazil.

7. International Summer School of Porous Media, 29 June-2 July, 2001, Neptun, Romania.
8. International Symposium of Thermal Science and Engineering, 23-26 October, 2002, Beijing, China.
9. International Conference on Applied Mathematics, 22-28 August, 2003, Sylhet, Bangladesh.
10. International Symposium on Transient Convective Heat and Mass Transfer in Single and Two-phase Flows, 17-22 August, 2003, Cesme, Turkey.
11. NATO ASI International Conference on Convective Heat Transfer in Porous Media, 9 – 20 June, 2003, Olimp, Romania.
12. 2nd International Conference on Application of Porous Media, ICAPM 2004, May 24-27, Évora, Portugal.
13. 5th Minsk International Heat and Mass Transfer Forum – MIF- 2004, May 24-28, 2004, Minsk, Belarus.
14. Fourth International Conference on Computational Heat and Mass Transfer, ICCHMT '05, May 17-20, 2005, Paris, France.
15. 3rd International Conference on Applications of Porous Media, May 29-June 3, 2006, Morocco.
16. 5th International Conference on Computational Heat and Mass Transfer, June 18-22, 2007, Canmore, Alberta, Canada.
17. 2nd International Conference on Mathematical Sciences (ICOMS2), University Technology Malaysia, 28-29 May, 2007, Malaysia.
18. 4th International Conference on Applications of Porous Media, Yeditepe University Istanbul, 10-12 August, 2009, Turkey.
19. 6th International Conference on Computational Heat and Mass Transfer, Guangzhou, May 18-21, 2009, China.
20. 3rd Conference on Nonlinear Science and Complexity, Ankara, July 28-31, 2010, Turkey.
21. 2nd International Conference on Mathematical Sciences (ICMS2 2010), Kuala Lumpur, 30th November – 3rd December, 2010, Malaysia.
22. 3rd Conference on Nonlinear Science and Complexity, 28-31 July, 2010, Ankara, Turkey.
23. 6th International Advanced Technologies Symposium, May 16 – 18, 2011, Elazığ Turkey.
24. 7th International Conference on Computational Heat and Mass Transfer, Istanbul, July 18-22, 2011, Turkey.

25. The 3rd International Conference on Mathematical Sciences, December 17-19, 2013, Kuala Lumpur, Malaysia.
26. 8th International Conference on Computational Heat and Mass Transfer, Istanbul, Turkey, May 25-28, 2015.
27. 9th International Conference on Computational Heat and Mass Transfer, Cracow, Poland, May 23-26, 2016.

Grants:

1. Project funded by the European Community (jointly with Prof. Derek B. Ingham from the University of Leeds, England), 1994
2. Projects funded by the Romanian Council for Science (CNCSIS), 1995-2005
3. Project funded by The Royal Society, London (jointly with Prof. Derek B. Ingham from the University of Leeds), 1998-2007
4. NATO ASI grant (jointly with Prof. Derek B. Ingham, 50.000 EURO) for organizing an International Conference on Porous Media, Neptun-Olimp, Romania, 2003
5. NATO grant (jointly with Prof. A. Baytas and Prof. Ingham, 12400 EURO) for the project Computational Investigation of Heat and Mass Transfer in Porous Enclosures, 2006-2008.
6. Grant PN-III-P4-ID-PCE-2016-0036, UEFISCDI, Romania, 2017-2019.