

## Europass Curriculum Vitae



### Personal information

Surname(s) / First name(s) **PASCU Mihail Lucian**

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Nationality Romanian

Date of birth 05.01.1946

Gender Male

### Desired employment / Occupational field

#### Work experience

Dates	December 2006 - onwards
Occupation or position held	Senior Research Scientist; Professor
Main activities and responsibilities	Head of Laser Spectroscopy Group; Professor at Physics Faculty, University of Bucharest; PhD head. Tunable lasers and laser spectroscopy. Laser spectroscopy and optics of biomolecular systems. Development of new methods to fight resistance to treatment acquired by bacteria and tumors; nanophysics and nanomedicine methods (generation of nanodroplets containing modified medicines) included. Lasers and optics applications in pollution control. Chaos in laser systems. Physics of micro- and nano-droplets. Spectroscopy of droplets. Econophysics. Optofluidics.
Name and address of employer	National Institute for Laser, Plasma and Radiation Physics; Laser Department, 409 Atomistilor str., Magurele, Ilfov, 077125, Romania
Type of business or sector	Research and Education
Dates	January 2004 – November 2006
Occupation or position held	National Detached Expert
Main activities and responsibilities	Science Officer: Medicine and Health; Biomedicine and Molecular Biosciences
Name and address of employer	European Science Foundation: COST Office, 149 Avenue Louise, 1050 Brussels, Belgium Tel : (32-2) 533 38 10 ; Fax : (32-2) 533 38 93 Address of the European Science Foundation: 1, quai Lezay-Marnesia, BP 90015 67080, Strasbourg Cedex, France; Tel: (33-3) 88 76 71 00; Fax: (33-3) 88 37 05 32; <a href="http://www.esf.org/">http://www.esf.org/</a>

Type of business or sector	Management of a COST Domain; Organising forward look conferences and strategic workshops.
Dates	September 2001 – December 2003
Occupation or position held	National Detached Expert
Main activities and responsibilities	Science Office: Medicine and Health; Biomaterials
Name and address of employer	European Commission – DG Research, Sq de Meeus, Brussels
Type of business or sector	Management of COST Domains
Dates	January 1990 – September 2001
Occupation or position held	Senior Research Scientist; Professor
Main activities and responsibilities	Head of Laser Spectroscopy Group; Professor at Physics Faculty, University of Bucharest; PhD head
Name and address of employer	National Institute for Laser, Plasma and Radiation Physics; Laser Department, 409 Atomistilor str., Magurele, Ilfov, 077125, Romania
Type of business or sector	Research and Education
Dates	August 1983 – January 1990
Occupation or position held	Senior Research Scientist
Main activities and responsibilities	Director of the Institute of Physics and Technology of Radiation Devices. Tunable lasers and laser spectroscopy. Laser medical equipment. Laser spectroscopy and optics of biomolecular systems. Lasers and optics applications in pollution control.
Name and address of employer	Institute of Physics and Technology of Radiation Devices; Laser Department, 409 Atomistilor str., Magurele, Ilfov, 077125, Romania
Type of business or sector	Research and Education; Management
Dates	March 1974 – August 1983
Occupation or position held	Research Scientist
Main activities and responsibilities	Tunable (dye) lasers and laser spectroscopy. Lasers and optics applications in pollution control. Laser medical equipment. Laser spectroscopy and optics of biomolecular systems.
Name and address of employer	Institute of Physics and Technology of Radiation Devices; Laser Department, 409 Atomistilor str., Magurele, Ilfov, 077125, Romania
Type of business or sector	Research and Education
Dates	January 1972 – March 1974
Occupation or position held	Assistant Research Scientist
Main activities and responsibilities	PhD student in Optics and Cold Plasma Spectroscopy
Name and address of employer	University of Texas at Dallas, Physics Faculty, Richardson, TX, USA
Type of business or sector	Research
Dates	March 1969 – January 1972
Occupation or position held	Assistant Research Scientist (stagiaire)
Main activities and responsibilities	Beginner/stagiaire research scientist in the field of optics of the solid state
Name and address of employer	Institute of Physics Bucharest, Romanian Academy, Bucharest, Romania
Type of business or sector	Research

## Education and training

Dates	September 2001 - January 2004
Title of qualification awarded	Up-graded personnel at EC
Principal subjects/occupational skills covered	These were made at the European Commission, DG. Research and ESF: - Training on how to give interviews to TV stations - Training on how to communicate as EC employee: phone conversations, interviews, etc - Training course for German language
Name and type of organisation providing education and training	- European Commission DG – RTD, COST Secretariat - European Science Foundation, COST Office

Level in national or international classification	It was not mentioned after giving the final tests.
Dates	October 1985 – June 1987
Title of qualification awarded	Graduated with degree in management of research institutes and industrial companies
Principal subjects/occupational skills covered	Evening Student; Management of research institutes and economic enterprises
Name and type of organisation providing education and training	Ministry of Education, Bucharest
Level in national or international classification	Expert
Dates	January 1970 - March 1974
Title of qualification awarded	PhD in Physics
Principal subjects/occupational skills covered	Optics and Cold Plasma Spectroscopy; Title of the PhD Thesis: "The optical study of the molecular ions in the cold plasma".
Name and type of organisation providing education and training	- Faculty of Physics, University of Bucharest, Romania - Faculty of Physics, University of Texas at Dallas, USA
Level in national or international classification	PhD
Dates	October 1963 – June 1968
Title of qualification awarded	Physicist
Principal subjects/occupational skills covered	Optics, Spectroscopy, Plasma, Lasers; title of the master thesis "Light scattering in alkali halide crystals".
Name and type of organisation providing education and training	Faculty of Physics Bucharest, University of Bucharest, Romania
Level in national or international classification	Master

### Personal skills and competences

Mother tongue(s) Romanian

Other language(s)

Self-assessment

European level (\*)

**English**

**French**

**German**

**Italian**

**Russian**

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
C2	Proficient user	C2	Proficient user	C2	Proficient user	C1	Proficient user	C2	Proficient user
C2	Proficient user	C2	Proficient user	C2	Proficient user	C1	Proficient user	C2	Proficient user
C1	Proficient user	B2	Independent user	A2	Basic user	A2	Basic user	B2	Independent user
C2	Proficient user	C1	Proficient user	C1	Proficient user	C1	Proficient user	B1	Independent user
B2	Independent user	B2	Independent user	A2	Basic user	A2	Basic user	A2	Basic user

Social skills and competences	<ul style="list-style-type: none"> <li>- team work: I founded a research team (in average 15 members) which is 42 years old and still performing. It may be visited at <a href="http://sol.inflpr.ro">http://sol.inflpr.ro</a> ; as head of this research group I constantly won projects at competitions and I assured cooperations with other research groups within the respective projects, international cooperation included.</li> <li>- I was, for 8 years director of my research institute which had 830 members (categories of personnel: university professors, senior research scientists, PhDs, young researchers, students – thesards, technicians, workers, laborants); I assured the interface of my institute with institutes and institutions in Romania and other countries, with Government institutions and Romanian state authorities; I successfully head International projects (bilateral, UNDP, etc). As director of my institute I coordinated national research programs such as: lasers and applications, physical methods in pollution control, plasma physics program, lasers in life sciences, lasers applications in medicine and biology etc.</li> <li>- I worked in International environment for more than 8 years and particularly, between 2001 and 2006 at COST as END at EC COST Secretariat and at ESF COST Office. I coordinated COST networks including more than 3000 scientists from more than 35 COST countries, EU near neighbor countries, other countries (such as USA, Japan, China, India, Korea, Brasil, Canada, South Africa, Australia, New Zealand etc) as well.</li> </ul>
Organisational skills and competences	<ul style="list-style-type: none"> <li>- I organized and financed (raised funds whenever necessary) more than 220 international scientific conferences having the number of participants – function of the conference - from 10 to 900. Typically, I organized/approved and financed more than 110 COST meetings.</li> <li>- I organized COST strategic meetings such as: Environment and health (implying: 3 COST domains, EC DG RTD, JRC, EU Council, ESF, ESF-EMRC, ESF-LESC, NATO, EUREKA, WHO, etc), Food and Health (3 COST domains, EC DG RTD, EC DG SANCO, EC DG Agri, ESF, EU Council, EUREKA, WHO, EFSA, etc implied), COST-NATO Strategic meeting on Food Security and Safety (implying: 3 COST domains, NATO Science for Peace, EC DG RTD, ESF, JRC, etc).</li> <li>- Presentation of COST days in separate meetings or meetings joint with other initiatives in areas such as: West Balkans, Romania joined with Republic of Moldova, Region Veneto-Padova, Region Valee de la Loire – Angers, Bulgaria, Austria etc.</li> <li>- Recommendation of experts to evaluate national research strategies in Spain and Romania.</li> <li>- As Director of a research institute I organised research laboratories dedicated to both, fundamental and applied research (small scale production included), I organised and head competitions to promote different categories of personnel, I acted as manager of the institute supervising the economical issues, I organised the institute to solve the scientific programs it was responsible for, from basic and applied research up to small scale production.</li> </ul>
Technical skills and competences	<ul style="list-style-type: none"> <li>- Syntheses and coordination of national research programs in Romania.</li> <li>- Heading of International scientific cooperation programs such as: UNDP, French-Romanian networks (Reseaux Formation-Recherche) for research and education, bilateral cooperation programs in science.</li> <li>- Syntheses concerning evaluations of research programs, COST domains and networks.</li> <li>- Publication of books as co-author.</li> <li>- As COST science officer, financing of publication of results by groups of scientists participating in COST networks.</li> <li>- Evaluation of: projects proposals and results, programmes, etc. I am currently EC expert evaluator, expert evaluator in Romania for the National Programme for Research and Development (ANCS - PNCD) and for the National Council for Scientific Research in the High Education System (CNCSIS). I am also expert/evaluator for Belgian, Polish and Portuguese research programmes.</li> </ul>
Computer skills and competences	Windows, Office Pack, web sites content, coreldraw / other graphics programs, chemwind, matematica, etc.
Artistic skills and competences	At advised amateur level: music, philosophy of science.
Other skills and competences	Cooking (at amateur level)
Driving license	Category B, since 1972, obtained in Texas (US).
<b>Additional information</b>	Publications (see Annex 4)

<b>Annexes</b>	ANNEX 1: MEMBERSHIP OF INTERNATIONAL SOCIETIES
	ANNEX 2: MEMBER OF NATIONAL & INTERNATIONAL SCIENTIFIC COMMITTEES
	ANNEX 3: INTERNATIONAL JOURNAL BOARDS MEMBER
	ANNEX 4: PUBLICATIONS
	ANNEX 5: WORKING STAGES ABROAD
	ANNEX 6: ACADEMIC RESPONSIBILITIES
	ANNEX 7: HEAD OF NATIONAL AND INTERNATIONAL PROJECTS OR EQUIVALENT
	ANNEX 8: HONORS AND AWARDS:
	ANNEX 9: SELECTED LIST OF COST ACTIONS/NETWORKS, ACTIVITIES AND TECHNICAL COMMITTEES FOR WHICH I WAS RESPONSIBLE SCIENCE OFFICER

## MEMBERSHIP OF INTERNATIONAL SOCIETIES

1. Centro Superiore di Logica e Scienze Comparete, Bologna, Italy; since 1972.
2. Romanian Society for Physics; since 1980.
3. Romanian Society for Lasers in Medicine and Biology; founding member in 1995. President between 1995 and 2001.
4. European Physical Society; since 1983.
5. SPIE; since 1990.
6. European Optical Society; since 1992.
7. European Medical Laser Association; member between 1997 and 2000 and Vicepresident between 1999 and 2000.
8. World Association for Laser Therapy; member since 1999.
9. International Academy for Lasers in Medicine, Florence, Italy; founding member in 2000 and member since 2000.
10. Romanian Academy of Medical Sciences (Member of Honor from abroad) since 2001.
11. International Society of Lasers in Medicine and Surgery, München, (Member of the Executive Board of the elected for the period 2005 – 2007).
12. WALA - World Association for Lasers Applications, Saudi Arabia (Member of the Board of Directors); since 2007.
13. Liaison Science Officer between COST BMBS and ESF – PESC DOMAIN COMMITTEES: 2007 – 2009
14. Scientific Committee of NESA (New European Surgery Academy), Berlin/Vienna/Frankfurt Am Oder, EU, since 2009.
15. French Academy for Central Europe, since 2010 and head of the Technical Sciences Section of it since 2012.
16. European Laser Association–ELA (Member of the Executive Board); since 2016.
17. Optical Society of America. Since 2018.

## ANNEX 2

## MEMBER OF NATIONAL &amp; INTERNATIONAL SCIENTIFIC COMMITTEES (Selected list)

1. International Scientific Committee, IV<sup>th</sup> International Conference on Luminescence, Szeged, Hungary, 1982.
2. International Scientific Committee of Trends in Quantum Electronics, 1985 and 1988, Bucharest, Romania.
3. International Scientific Committee of the VI<sup>th</sup> Int. Workshop on Ultrafast Phenomena in Spectroscopy '89, Neubrandenburg, Germany, 1989.
4. Organizer and member of the Scientific Committee of the French-Romanian Workshop "Lasers Applications in Biology", Bucharest, 1995.
5. International Scientific Committee, II<sup>nd</sup> Italian-Hungarian Workshop on "Laser Applications in Medicine", Pecs, 1998.
6. International Scientific Committee, VI<sup>th</sup> Symposium on Analytical Sciences, Valencia, 1998.
7. International Scientific Committee, Chairman of the Org. Committee, VI<sup>th</sup> Conf. of the European Medical Laser Association, Bucharest, 1998.
8. International Scientific Board and Laser Physics tutorial course director, 1<sup>st</sup> International Meeting Laser Florence '98, Florence, 1998.
9. International Scientific Committee, VII<sup>th</sup> Symposium on Analytical Sciences, Prague, 1999.
10. International Scientific Board and Laser Physics course director, 2<sup>nd</sup> International Meeting Laser Florence '99, Florence, 1999.
11. International Scientific Committee, 3<sup>rd</sup> World Association for Laser Therapy, Athens, 2000.
12. Program Committee, 6<sup>th</sup> ROMOPTO Conference, Bucharest, 2000, 2003, 2006, 2009, 2012.
13. International Scientific Board and Laser Physics course director, 3<sup>rd</sup> International Meeting Laser Florence 2000, Florence, 2000.
14. Co-chairman of the 14<sup>th</sup> International Conference on Lasers in Medicine (ICLM), Florence, 2000.
15. International Scientific Committee, VII<sup>th</sup> Conference of the European Medical Laser Association, Dubrovnik, Croatia, 2000.
16. International Scientific Board and Laser Physics course director, 4<sup>th</sup> International Meeting Laser Florence 2001, Florence, 2001.
17. Co -chairman of the 15<sup>th</sup> International Conference on Lasers in Medicine (ICLM), Florence, 2001.
18. International Advisory Board, IV<sup>th</sup> World Association for Laser Therapy Congress, Kansas City, USA, 2002.
19. Co-chairman of the 16<sup>th</sup> International Conference on Lasers in Medicine (ICLM), Florence, 2002.
20. Co-chairman of the 17<sup>th</sup> International Conference on Lasers in Medicine (ICLM), Florence, 2003.
21. Co-chairman of the 18<sup>th</sup> International Conference on Lasers in Medicine (ICLM), Florence, 2004.
22. Seventh International Conference of Anticancer Research, member of Organizing Committee, Corfu, Greece, 2004.
23. International Scientific Board of the 19<sup>th</sup> International Conference on Lasers in Medicine (ICLM), Florence, 2005.
24. International Scientific Board of the 20<sup>th</sup> International Conference on Lasers in Medicine (ICLM), Florence, 2006.
25. Organizer/participant in more than 200 COST scientific meetings (from Sept. 2001 to Nov. 2006) boards which I also approved for financing.
26. International Scientific Board of the the 21<sup>st</sup> Int. Conference on Lasers in Medicine (ICLM), Florence, 2007.
27. International Scientific Board of the the 22<sup>th</sup> Int. Conference on Lasers in Medicine (ICLM), Florence, 2008.
28. Member of the International Scientific Committee of the 23<sup>rd</sup> Conference on Lasers in Medicine LASER FLORENCE, Florence, 2009.
29. Member of the International Scientific Committee of the 3<sup>rd</sup> International Conference on Anti-Aging, AMAA-2009, Eforie Nord, Romania, 2009.
30. Member of the International Scientific Committee of the Yearly Conference of the European network COST BM0701- ATENS, Dublin, 2009.
31. Member of the Programme Committee of the "Micro-to Nano-Photonics II - ROMOPTO 2009", ROMOPTO 2009 International Conference, Sibiu.
32. Member of the International Scientific Committee of the European network COST B30 – NEREPLAS, 2007 – 2010.
  - Bilbao (Spain), April 11-12, 2008 (5<sup>th</sup> MC and 4<sup>th</sup> WG Meeting)
  - Cluny (France), October 3-4, 2008 (6<sup>th</sup> MC and 5<sup>th</sup> WG Meeting)
  - Antwerp (Belgium), March 27-20, 2009 (7<sup>th</sup> MC and 6<sup>th</sup> WG Meeting)
  - Larnarca (Cyprus), October 24-25, 2009 (8<sup>th</sup> MC and 7<sup>th</sup> WG Meeting)
  - Stem Cells and Neuroregeneration, Joint meeting of the 4 Working Groups of the European COST-B30 action NEREPLAS (Neuroregeneration and Plasticity of the Brain), February 5 and 6, 2010, in Haarlem, the Netherlands.
  - Carmona (Spain), June 17-19, 2010 (9<sup>th</sup> MC and 8<sup>th</sup> WG final Meeting)
33. Member of the International Scientific Committee of the European Network COST BM0601 –NEUROMATH, 2007 – 2011.

- 2nd MC Meeting Joint WG Meeting, 2 – 5 December 2007, Rome, Italy
- 3rd MC Meeting joint with WG meetings and Workshop, 28- 29 April 2008, Dornburg/Jena, Germany
- NeuroMath Workshop, 12 – 13 March 2009, Leuven/Louvain, Belgium
- 5-th MC and WGs meeting, 10 11 September 2008, *Royal Swedish Academy of Sciences, Stockholm, Sweden.*
- 6-th MC and WG meetings 30 November – 1 December 2009, I, Limassol, Cyprus
- 35 Member of the International Scientific Committee of the European Network COST BM0605-CONSCIOUSNESS, 2007 – 2011
- COST ACTION BM0605CORE GROUP MEETING, 6 December 2007 Brussels, Belgium
- First CONFERENCE and Working Groups Meeting 3rd Management Committee, November 20-21, 2008, Gand, Belgium
- 4th Management Committee and Working Groups Meeting, 5 June 2009, Berlin, Germany
- CONSCIOUSNESS AND ITS MEASUREs, A Joint Conference by COST Actions NeuroMath and Consciousness November 29 – December 1, 2009, Limassol, Cyprus
- 36 Member of the International Scientific Committee of the European Network COST P21 – Physics of Droplets, 2006 – 2010
- 3-rd MC and WGs meeting, 11 – 14 Mai 2007, Granada, Spain
- 4th MC meeting, 13-th November 2007, Marne-la-Vallée, France
- 5th MC, Working Groups meeting and Training School, 14- 16 Mai 2008, Capri, Italy.
- COST P21 WG3-Meeting, Sept. 12th, 2008 in Erlangen, Germany
- 6-th Management Committee Meeting joint with IMPULSE - Procter & Gamble project, 16 October 2008, Brussels (Belgium)
- 7-th Conference of the MC and WGs meeting, 4 – 6 Mai, 2009, Parliament Palace, Bucharest. Member of the International Scientific Committee and Chairman of the Local Organising Committee of the Conference.
- 8th Management Committee and Working Groups meetings, 23 – 25 September 2009, Thessaloniki, Greece
- COST P21 Final MC and WG Meetings (linked to the Eufoam conference)14-15 July, 2010 (Borovets, Bulgaria)
- 37. Member of the International Scientific Committee of the European Network COST BM0701 – ATENS, 2007 – 2012; I was elected Vice-Chair of this European network.
- 2nd MC and Working Groups meeting, November 20-21nd 2008, Bruxelles, Belgium
- 3-rd Management Committee Meeting and WGs meeting, 18 – 19 May 2009, Krakow, Poland
- 4-th MC and WG meeting 10 - 11 December 2009, Dublin, Ireland
- 5-th Management Committee Meeting and WGs meeting and training school, 3 - 11 July 2010, Bremen, Germany
- Chairman of the Local Organising Committee of the final meeting of the COST Action BM0701 – ATENS, Palatul Parlamentului (Parliament Palace), Bucharest, 2012
- 38 Member of the National Platform „Food for Life” (RoTP), Bucharest, 2008-2012.
- 39 Member of the International Scientific Committee of the 24th Conference on Lasers in Medicine LASER FLORENCE, Florence, 2010.
- 40 Member of the International Scientific Committee of the 25th Conference on Lasers in Medicine LASER FLORENCE, Florence, 2011.
- 41 Member of the International Scientific Committee of SPIE – ISWLA, Bran, Romania, 2011.
- 42 Member of the International Scientific Committee of SPIE – ISCP, Sinaia, Romania, 2012.
- 43 Member of the International Scientific Committee of the 26th Conference on Lasers in Medicine LASER FLORENCE, Florence, 2012.
- 44 Member of the Programme Committee of the “Micro-to Nano-Photonics III - ROMOPTO 2012”, ROMOPTO 2012 International Conference, Bucharest.
- 45 Member of the Interantional Scientific Committee of APALMS 2011 (Japan), 2012 (Taiwan).
- 46 Member of the Management Committee of the COST Action BM1003, 2010- 2014.
- Annual Conference, october 2013, Aci Trezza, Catania, Italy.
- Final Conference, 12–16 october 2014, University of Napoli, Italy.
- 47 Member of the Management Committee of the COST Action MP1106, 2011- 2016.
- Kick-off meeting, mai 2012, Brussels, Belgium.
- Member of the International Scientific Committee of COST Action MP1106, september 2012, Dublin, Ireland.
- Annual Conference, 20–23 mars 2013, Science Academy, Prague, Czech Republic.
- Joint Working Groups meeting, Smart and Green Interfaces Conference – COST MP1106, April 22nd to 24th, 2014, Marseille, France.
- Annual Conference, September 2015, Aristotle University Thessaloniki, Greece
- Joint Working Groups meeting, march, Belgrade, Serbia
- Final meeting, may 2015, Athens, Greece
- 48 Member of the Management Committee of the COST Action MP1205, 2013- 2016.
- Annual General Meeting, 24 - 25.04.2014, Dublin, Ireland.
- WG/MC Meetings, October 2014, Buerkert Fluid Control Systems, Ingelfingen, Germany.
- Annual General Meeting, May 2015, Porto, Portugal.
- Final meeting, September 2016, Cetraro, Italy.
- 49 Member of the International Scientific Committee of SPIE – ISCP, Bran, Romania, 2013.
- 50 Member of the International Scientific Committee of the 26th Conference on Lasers in Medicine LASER FLORENCE, Florence, 2013.
- 51 Member of the International Scientific Committee of SPIE – ISCP, Orastie, Romania, 2014.
- 52 Member of the International Scientific Committee of the 27th Conference on Lasers in Medicine LASER FLORENCE, Florence, 2015.
- 53 Member of the Programme Committee of the “Micro-to Nano-Photonics IV - ROMOPTO 2015”, ROMOPTO 2015 International Conference, Bucharest.
- 54 Member of the International Scientific Committee of the 27th Conference on Lasers in Medicine LASER FLORENCE, Florence, 2017.
- 55 Member of International Scientific Committee of the SPIE-OSA-ISCP, Alba Iulia, Romania, 2018

## INTERNATIONAL JOURNAL BOARDS MEMBER

1. Editorial Board, Photomedicine and Laser Surgery (USA), since 2005
2. Editorial Board, Lasers in Medical Science, (UK), since 2000.
2. Editorial Board, Lasers in Medicine and Surgery (UK), since 2006.
3. Editorial Board, Letters in Drug Design & Discovery - LDDD (US), since 2006.
  - \* Guest Editor for the Special Issue Letters in Drug Design & Discovery - LDDD (US), LDDD: vol. 8, issue 2, February 2011: Methods to Fight Multiple Drug Resistance.
4. Editorial Board, International Journal of Radiation Biology, since 2011.
5. Editorial Board, Biochemistry & Pharmacology, since 2012.
6. Editorial Board, DOVE GROUP Journals
7. Reviewer at:
  - \* International Journal of Radiation Biology
  - \* PLOS ONE
  - \* Journal of Biophotonics
  - \* Journal of Photochemistry and Photobiology
  - \* MOLECULES
  - \* Journal of Photochemistry and Photobiology A: Chemistry
  - \* Colloids and Surfaces A: Physicochemical and Engineering Aspects
  - \* European Journal of Pharmaceutical Sciences
  - \* International Journal of Pharmaceutics

## EVALUATIONS:

1. Evaluator for the Belgian SEMAPHORE Programme: National Belgian Science Programme; since 2008.
2. Evaluator as COST expert for COST domains.
3. Romanian CNCSIS Programs, since 2005.
4. Romanian ANCS Programs, since 2007.
5. EC DG RTD COST Secretariat / ESF COST Office, since 2002.
6. NINESIGMA JOURNAL, since 2003.
7. Evaluator of COST Office for new COST networks proposals, since 2010.
8. COST EXPERT since 2011.
9. Evaluator for Polish and Portuguese National Research Programmes, since 2015

## PUBLICATIONS

## 1. PUBLICATIONS

More than 200 articles published in national or international journals out of which a **selection** is given below:

*1.1 Articles (selection) published in international journals indexed in the ISI system:*

1. **M.L. Pascu**, The relations between the equations of transformation of the Stokes parameters and the conservation of the energy of the light wave, LASER AND UNCONVENTIONAL OPTICS JOURNAL, CEAS-Sweden, 36:9-16, 1971.
2. D. Popescu, **M.L. Pascu**, C. B. Collins, B. W. Johnson, I. I. Popescu, Use of space charge amplification techniques in the absorption spectroscopy of Cs and Cs<sub>2</sub>, PHYS REV A, 8(4): 1666-1672, 1973.
3. C. B. Collins, B. W. Johnson, D. Popescu, **M.L. Pascu**, G. Musa, I.I. Popescu, Multiphoton ionization of molecular caesium with a tunable dye laser, PHYS REV A, 8(4): 2197-2201, 1973.
4. L. Nastase, **M.L. Pascu**, G. Musa, Nanosecond currents in gas discharge device, J PHYS D APPL PHYS., 17: 1149-1156, 1984.
5. **M.L. Pascu**, A. Pascu, G. Dumbraveanu, D. Cristu, Computer controlled dye laser spectrophotometer, J PHYS E SCI INSTRUM, 19: 54-61, 1986.
6. R. Alexandrescu, I. N. Mihailescu, I. Morjan, V. Jianu, **M.L. Pascu**, F. Bunkin, B. Lukyanchiuk, Thermochemical effects by laser irradiation of some solid compounds, PHYS STAT SOL, 104: 687-692, 1987.
7. I. Chis, A. Ciura, V. Draganescu, D. Dragulinescu, D. Grigorescu, C. Grigoriu, **M.L. Pascu**, V. Velculescu, M. Abrudean, Design and performance of a high repetition rate TEA CO<sub>2</sub> laser, J PHYS E SCI INSTRUM., 21: 3993-3999, 1988.
8. C. Popa, V. Jianu, R. Alexandrescu, I. Morjan, **M.L. Pascu**, I. N. Mihailescu, Dehydration of some inorganic compounds by CW CO<sub>2</sub> laser irradiation and thermal heating: a comparative study, THERMOCHIMICA ACTA, 129: 269-276, 1988.
9. I. Gutu, **M.L. Pascu**, A new design for high power transverse flow CO<sub>2</sub> lasers, LASER UND OPTOELEKTRONIK, 24(2): 367-374, 1992.
10. C. Timus, M. Lazarescu, R. Medianu, **M.L. Pascu**, Optical investigations of oxygen doped GaAs, OPT APPL, XXII(3-4): 187-193, 1992.
11. M. Enescu, R. Ionescu, G. Dumbraveanu, **M.L. Pascu**, Phosphorescence lifetime studies of interactions between serum albumins and sodium dodecyl sulphate, PHOTOCHEM PHOTOBIOLOG, 57(2): 367-372, 1993.
12. M. Lazarescu, E. Elena, A. S. Manea, **M.L. Pascu**, C. Timus, Optical quality GaAs grown from quartz crucible, CRYST RES TECHNOL, 28(4): K19-K23, 1993.



13. R. Medianu, **M.L. Pascu**, I. Gutu, Coating method for VRM to be used in high power CW CO<sub>2</sub> laser, *PURE APPL OPT*, 3: 449-455, 1994.
14. F. Bertinetto, **M.L. Pascu**, M. A Greco, A. Staicu, Research on tunable lasers developed as spectral sources of radiation, *ROM REP PHYS*, 46: 407-412, 1994.
15. R. Stoleru, **M.L. Pascu**, A.M. Dumitras, Frequency doubling of the HeNe laser radiation at 632.8 nm, *PURE APPL OPT*, 5: 119-124, 1996.
16. C. Antipa, **M.L. Pascu**, I. V. Bruckner, A. Podoleanu, V. Stanculescu, M. Beuran, E. Ionescu, Monochromatic coherent and noncoherent infrared light comparative effects in some rheumatic diseases, *LASER SURG MED*, 8: 5-8, 1996;
17. S. Hogiu, **M.L. Pascu**, Optical and spectral properties of chlorophyll, *ROM REP PHYS*, 48(3-4): 205-218, 1996.
18. A. Staicu, **M.L. Pascu**, Remote sensing of atmospheric pollutants, *ROM REP PHYS*, 48(9-10):841-854, 1996.
19. A. Staicu, **M.L. Pascu**, I. Iova, Differential absorption measurements in laboratory on air samples containing NO<sub>2</sub> as pollutant substance, *ROM REP PHYS*, 48(7-8): 549 -553, 1996.
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8. *Semiconductor lasers applications in rheumatology*, **M.L. Pascu**, St. Suteanu, P. Ignat, Proc of the Int. Congress on Physical Medicine , Balneology and Medical Rehabilitation, Sinaia, Oct. 1992, *Rev. de Balneofizioterapie*, vol.27, p.397-406, 1992.
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12. *Effet du solvant sur la structure et la dynamique structurale des albumins seriques par l'etude du declin de leur phosphorescence*, S.Hogiu, M.Enescu, **M.L. Pascu**, Proc. of the First French-Romanian Workshop "Laser Applications in Biology", Bucharest,(Eds.L.Lindqvist, **M.L.Pascu**), *Rom. J. Biophys.*, vol.5, No.4, p.295-300, 1995 (French language).
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22. *Inflammatory rheumatisms treated with low energy lasers*, C. Antipa, A.Ianuli, I.V. Bruckner, M. Vlaiculescu, E. Ionescu, C. Antipa, **M.L. Pascu**, 5<sup>th</sup> Int. Congress of the European Medical Laser Association, Florence, 1997.
23. *New laser method to characterize rabbit eye cornea*, **M.L. Pascu**, B. Carstocea, G. Popescu, 5<sup>th</sup> Int. Congress of the European Medical Laser Association, Florence, 1997.
24. *Review on laser applications in medicine and biology in Romania*, **M.L. Pascu**, 5<sup>th</sup> Int. Congress of the European Medical Laser Association, Florence, 1997.
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29. *Brief Course on LASER PHYSICS & ENGINEERING*, -Tutorial Course, (8 hours), **M.L. Pascu** (course director), 1<sup>st</sup> Int. ExpoMeeting Laser Florence '98- Laser & Computer in Human Science, Oct. 1998, Florence, Italy.
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32. *Round Table on Laser Medicine and Surgery: Nursing, "Laser Safety"* ,-Tutorial Course, **M.L. Pascu**, 1<sup>st</sup> Int. ExpoMeeting Laser Florence '98- Laser & Computer in Human Science, Oct. 1998, Florence, Italy.
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21. Interaction of Medicines Exposed to Laser Beams with Fabrics of Interest for Biomedical Applications, Á. Simon, **M.L. Pascu**, *Laser Optofluidics in Fighting Multiple Drug Resistance*, Ed. M.L. Pascu, Bentham Science, 423-444, 2017, approved for publication.
22. Microvolumetric Droplets in Air in Hypergravity Conditions, Á. Simon, A. Stoicu, T. Tozar, I.R. Andrei, S. Simion, J.J.W.A. van Loon, A. Dowson, M.L. Pascu, 445-462, *Laser Optofluidics in Fighting Multiple Drug Resistance*, Ed. M.L. Pascu, Bentham Science, 2017, approved for publication.
23. Lasing by Optically Pumped Pendant Droplets, M. Boni, I.R. Andrei, A. Staicu, V. Nastasa, **M.L. Pascu**, *Laser Optofluidics in Fighting Multiple Drug Resistance*, Ed. M.L. Pascu, Bentham Science, 463-488, 2017, approved for publication.
24. Spectroscopy of Microdroplets: an Alternative to the Spectroscopy of Bulky Materials, **M.L. Pascu**, A. Smarandache, T. Tozar, I.R. Andrei, *Laser Optofluidics in Fighting Multiple Drug Resistance*, Ed. M.L. Pascu, Bentham Science, 489-499, 2017, approved for publication.

#### 1.8 More than 300 oral/poster presentations at national / international conferences.

Examples for 2008 -2016.

1. **M.L. Pascu**, *Activation of cytotoxic effect of some cytostatics through exposure at optical radiation*, Simpozionul "Cercetare de excelenta in stiinte de baza si socio-economice", September 2008, Iasi, Romania.
2. M. Bulinski, C.M. Ticos, I.R. Andrei, **M.L. Pascu**, *The control of the chaotic dynamics of the external cavity-semiconductor laser system emission*, 15<sup>th</sup> National Conference on Physics, September 2008, Bucharest, Romania.
3. M. Bulinski, I.R. Andrei, G. Moagar-Poladin, C. Mardare, *Some aspects of digital holographic recording reconstruction*, 15<sup>th</sup> National Conference on Physics, September 2008, Bucharest, Romania.
4. I.R. Andrei, M. Ferrari, S. Rao, M. Dicu, A. Mahamoud, **M.L. Pascu**, *Studies about producing droplets containing cytostatics solutions*, 15<sup>th</sup> National Conference on Physics, September 2008, Bucharest, Romania
5. R. A. Pascu, M. Trifu, M. Dumitrescu, A. Mahamoud, A. Staicu, B. Carstocea, **M.L. Pascu**, *Studies of the effects of pyridinium compounds exposed to optical radiation on pseudotumoural tissues*, Annual Scientific Conference of Faculty of Physics, University of Bucharest, June 2008, Bucharest, Romania.
6. Fumarel, P. Albert, A. Harduc, N. Stafidov, **M.L. Pascu**, *Determination of the Pharmacokinetics of Methotrexate by Scintigraphic Monitoring of [99mTc] Pteridinic Derivatives Biodistribution*, Annual Scientific Conference of Faculty of Physics, University of Bucharest, June 2008, Bucharest, Romania.
7. I.R. Andrei, **M.L. Pascu**, M. Bulinski, *Poli-composite microstructures for light emission*, Annual Scientific Conference of Faculty of Physics, University of Bucharest, June 2008, Bucharest, Romania.
8. I.R. Andrei, M. Ferrari, S. Rao, L. Liggieri, **M.L. Pascu**, *Wetting properties of droplets containing drugs on superhydrophobic surfaces*, Annual Scientific Conference of Faculty of Physics, June 2008, University of Bucharest, Bucharest, Romania.
9. R. Fumarel, G. Murgoci, P. Albert, A. Hurduc, **M.L. Pascu**, *Increase of Cisplatin therapeutical index through optical irradiation: a case study of choroidal metastasis*, Annual Scientific Conference of Faculty of Physics, University of Bucharest, June 2008, Bucharest, Romania.
10. R. A. Pascu, M. Trifu, M. Dumitrescu, A. Mahamoud, A. Staicu, M. Dicu, D. Gazdaru, A. Smarandache, B. Carstocea, **M.L. Pascu**, *Effects of the alkyl substituted benzo [b]pyridinium compounds exposed to optical radiation*, International Conference "Modern Laser Applications", May 2008, Bran, Romania.
11. R. Fumarel, G. Murgoci, P. Albert, A. Hurduc, **M.L. Pascu**, *Increase of Cisplatin therapeutical index through optical irradiation*, International Conference "Modern Laser Applications", May 2008, Bran, Romania.
12. L. Danaila, M.L. Pascu, F. Stefanescu, *Baza neurofiziologica a constiintei*, Sesiunea Stiintifica de Primavara a Academiei Oamenilor de Stiinta din Romania- Stiinta si Religie, May 2008, Bucharest, Romania.
13. I.R. Andrei, M. Ferrari, Silvia Rao, L. Liggieri, **M.L. Pascu**, *Generation of droplets wich contain cytostatics drugs*, COST P21 "The Physics of droplets"- 1<sup>st</sup> Training School "Physico-chemical and flow behavior of droplets-based systems", May 2008, Capri, Italy.
14. M. Dicu, A. Staicu, D. Gazdaru, J. Barbe, I.R. Andrei, **M.L. Pascu**, *Spectral studies of some alkylphenylpyridinium compounds under UV – VIS irradiation*, Summer School HRSMC-"Photochemistry: Fundamentals and Applications", June 2008, Maastricht, Olanda.

15. R. Fumarel, G. Murgoi, P. Albert, A. Hurduc, **M.L. Pascu**, *Increase of Cisplatin therapeutical index through optical irradiation*, The International Congress Laser Medicine, November 2008, Florence, Italy.
16. R.G. Fumarel, P. Albert, A. Hurduc, N. Stafidov, **M.L. Pascu**, *Determination of the Pharmacokinetics of methotrexate by Scintigraphic Monitoring of [99mTc] Pteridinic Derivatives Biodistribution*, The International Congress Laser Medicine, November 2008, Florence, Italy.
17. R.A. Pascu, A. Mahamoud, D. Gazdaru, A. Staicu, M. Dicu, I.R. Andrei, B. Carstocea, **M.L. Pascu**, J. Barbe, *Effects of the alkyl substituted benzo[b]pyridinium compounds exposed to optical radiation*, The International Congress Laser Medicine, November 2008, Florence, Italy.
18. I. R. Andrei, M. Ferrari, S. Rao, L. Liggieri, A. Mahamoud, M. Dicu, **M.L. Pascu**, *Studies about producing droplets containing cytostatics solution*, The International Congress Laser Medicine, November 2008, Florence, Italy.
19. I.R. Andrei, M. Bulinski, C.M. Ticos, **M.L. Pascu**, *Chaotic properties of the laser beams emitted by semiconductor lasers*, Annual Scientific Conference of Faculty of Physics, University of Bucharest, 5 June 2009, Bucharest, Romania.
20. M. Dicu, A. Staicu, A. Smarandache, I. R. Andrei, M. Ferrari, L. Liggieri, L. Frunza, **M.L. Pascu**, *Spectral studies of medicines to be delivered in microdroplets form*, Joint Conference of the 7<sup>th</sup> MC & WG Meetings. COST ACTION P21 „The physics of droplets”, 4-6 May 2009, Bucharest, Romania.
21. M. Ferrari, L. Liggieri, F. Ravera, **M.L. Pascu**, M. Dicu, *Wetting of solvents for drug delivery on superhydrophobic surfaces*, Joint Conference of the 7<sup>th</sup> MC & WG Meetings. COST ACTION P21 „The physics of droplets”, 4-6 May 2009, Bucharest, Romania.
22. S. Kevorkian, A. Manea, A. Dinischiotu, M. Dicu, **M.L. Pascu**, M. Costache, B. Carstocea, *Preliminary study of vancomycin on a normal epithelial retinal cell line*, Joint Conference of the 7<sup>th</sup> MC & WG Meetings. COST ACTION P21 „The physics of droplets”, 4-6 May 2009, Bucharest, Romania.
23. T. Beica, I. Zgura, L. Frunza, I. R. Andrei, M. Dicu, **M.L. Pascu**, *Surface tension of drug solutions*, Joint Conference of the 7<sup>th</sup> MC & WG Meetings. COST ACTION P21 „The physics of droplets”, 4-6 May 2009, Bucharest, Romania.
24. I.R.Andrei, M.Ferrari, L.Liggieri, M.Dicu, V. Nastasa, **M.L. Pascu**, *Characterization of microdroplets which contain solutions of medicines*, Joint Conference of the 7<sup>th</sup> MC & WG Meetings. COST ACTION P21 „The physics of droplets”, 4-6 May 2009, Bucharest, Romania.
25. I. R. Andrei, C. M. Ticos, M. Bulinski, **M.L. Pascu**, *Chaotic behaviour of semiconductor lasers emission when optically coupled with an external cavity*, Micro- to Nano-Photonics II- ROMOPTO 2009, 31 August-3 September 2009, Sibiu, Romania.
26. I.R. Andrei, V. Nastasa, C.M. Ticos, **M.L. Pascu**, *Investigation of the fluorescent compounds solutions in microdroplets form at interaction with laser radiation*, International Workshop Bubble and Drop Interfaces, 23-25 September 2009, Thessaloniki, Greece.
27. V. Nastasa, V. Pradines, **M.L. Pascu**, R. Miller, *Studies about the generation and characterization of microdroplets with a controlled content*, International Workshop Bubble and Drop Interfaces, 23-25 September 2009, Thessaloniki, Greece.
28. I.R. Andrei, A. Smarandache, **M.L. Pascu**, *Water microdroplets behaviour at interaction with laser beams*, International Workshop Bubble and Drop Interfaces, 23-25 September 2009, Thessaloniki, Greece.
29. I. R. Andrei, C.M. Ticos, M. Bulinski, **M.L. Pascu**, *Characterization of chaotic emission of a laser diode for selective and unselective optical feedback produced by external reflectors*, International Student Workshop on Laser Applications 2010 (ISWLA10), 25-28 May 2010, Bran, Romania.
30. V. Nastasa, Andra Militaru, T. Karapantsios, M. Ferrari, K. Samaras, E. Dafnopatidou, I. R. Andrei, L. Ligieri, V. Pradines, R. Miller, **M.L. Pascu**, *Generation of micro and nano-droplets containing immiscible solutions in view of optical studies*, International Student Workshop on Laser Applications 2010 (ISWLA10), 25-28 May 2010, Bran, Romania.
31. M. Trelles, Adriana Smarandache, **M.L. Pascu**, *Studies of the optical properties of the commercial grade Aetoxisclerol*, International Congress Laser Europe 2010, May 2010, Tarragona, Spain.
32. A. Smarandache, M. Trelles, **M.L. Pascu**, *Measurement of the modifications of Polidocanol absorption spectra after exposure to NIR laser radiation*, International Student Workshop on Laser Applications, May 2010, Bran, Romania.
33. A. Militaru, A. Smarandache, A. Mahamoud, V. Damian, S. Alibert, J.-M. Pagès, **M.L. Pascu**, *Time evolution of quinazoline derivative BG1188*, International Student Workshop on Laser Applications, 25-28 May 2010 Bran, Romania.
34. M. Boni, V. Nastasă, I. Jepu, C. Lungu, A. Pascu, A. Staicu, **M. L. Pascu**, *Raman spectra measurements on droplets of water and DMSO*, International Student Workshop on Laser Applications, 25-28 May 2010, Bran, Romania.
35. A. Militaru, A. Smarandache, A. Mahamoud, S. Alibert, J.-M. Pagès, **M.L. Pascu**, *Characterization of stability of BG 1188 compound in ultrapure water and DMSO by spectral studies*, COST Action BM0701 – ATENS, July 2010, Bremen, Germany.
36. V. Nastasa, T. Karapantsios, K. Samaras, E. Dafnopatidou, **M.L. Pascu**, *Studies on the generation of nano droplets of immiscible liquids*, COST Action BM0701 – ATENS, July 2010, Bremen, Germany.
37. A. Militaru, A. Smarandache, A. Mahamoud, V. Damian, N. Popescu-Pogrión, S. Alibert, F. Vasiliu, J. M. Pagès, **M. L. Pascu**, *Wire-like Formations Produced in BG1188 Solutions: Optical and Electron Microscopy Measurements*, 462<sup>nd</sup> WE Heraeus Seminar: Transport across membranes: Multiple drug resistance, mechanisms and new tools, 462<sup>nd</sup> WE Heraeus Seminar: Transport across membranes: Multiple drug resistance, mechanisms and new tools, July 2010, Bremen, Germany.
38. V. Nastasa, T. Karapantsios, K. Samaras, E. Dafnopatidou, **M.L. Pascu**, *Studies on the generation of micro/nano droplets of oil in mixtures of Tween 80 surfactant and water*, COST network P21 “Physics of droplets”, July 2010, Borovets Bulgaria.
39. V. Nastasa, T. Karapantsios, K. Samaras, E. Dafnopatidou, **M.L. Pascu**, *Generation of micro and nano-droplets containing immiscible solutions and study of their properties in view of optical studies*, SPIE Optics and Photonics conference, August 2010, San Diego, SUA.
40. A. Smarandache, V. Nastasa, M. Trelles, J. Moreno-Moraga, **M.L. Pascu**, *Study of commercial grade Aetoxisclerol by optical means, in view of its use in varicose vein treatment*, Laser Florence 2010, 5-6 November 2010, Florence Italy.
41. A. Militaru, A. Smarandache, V. Nastasa, A. Mahamoud, V. Damian, N. Popescu-Pogrión, S. Alibert, F. Vasiliu, J.M. Pages, **M.L. Pascu**, *Stability characterization of quinazoline derivative BG1188 by optical methods*, Laser Florence 2010, 5-6 November 2010, Florence Italy.
42. I. Zgura, T. Beica, L. Frunza, F. Cotorobai, S. Frunza, I.R. Andrei, **M.L. Pascu**, *Drop shape analysis - a method to characterize drug solutions*, 11<sup>th</sup> International Balkan Workshop on Applied Physics, 7-9 July 2010, Constanta, Romania.
43. **M.L. Pascu**, R. Fumarel, M. Gherge, *Interaction of solid malignant tumours with optical beams*, Cancer Genetics and Cytogenetics, Volume 203, Issue 1, November 2010.

44. V. Nastasa, A. Militaru, L. Amaral, **M.L. Pascu**, *Molecular modifications of chlorpromazine prepared as solution in micro-droplets form by exposure to laser radiation*, International Student Workshop on Laser Applications 2011, 31 May-4 June, 2011, Bran, Romania.
45. A. Smarandache, A. Militaru, V. Nastasa, J. Kristiansen, **M.L. Pascu**, *Studies of the spectral properties of Phenothiazines*, International Student Workshop on Laser Applications 2011, 31 May-4 June, 2011, Bran, Romania.
46. M. Boni, V. Nastasa, I.R. Andrei, G.V. Popescu, **M.L. Pascu**, *Optical emission by micro- and nano- droplets*, International Student Workshop on Laser Applications 2011, 31 May-4 June, 2011, Bran, Romania.
47. A. Militaru, A. Smarandache, L. Frunza, J.M. Pagès and **M.L. Pascu**, *Stability properties of medicines solutions: spectral evidence and wire-like formations*, International Student Workshop on Laser Applications 2011, 31 May-4 June, 2011, Bran, Romania.
48. A. Militaru, S. Alibert, A. Mahamoud, V. Damian, M. Filipescu, M. Enculescu, J. M. Pagès, **M.L. Pascu**, *Studies on molecular aggregates in quinazoline derivatives solutions by exploring methods*, International Student Workshop on Laser Applications 2011, 31 May-4 June, 2011, Bran, Romania.
49. I.R. Andrei, C.M. Ticos, M. Bulinski, **M.L. Pascu**, *Experimental control of the low frequency fluctuations by current modulation in a semiconductor laser with optical feedback*, International Student Workshop on Laser Applications 2011, 31 May-4 June, 2011, Bran, Romania.
50. I.R. Andrei, C.M. Ticos, M. Bulinski, G.V. Popescu, **M.L. Pascu**, *Experimental analysis of chaotic coupling of two lasers with external optical feedback*, International Student Workshop on Laser Applications 2011, 31 May- 4 June, 2011, Bran, Romania.
51. V. Nastasa, M. Boni, I.R. Andrei, A. Staicu, L. Amaral, **M.L. Pascu**, *Optical investigation of medicine solutions in micro-droplets form at interaction with laser radiation*, SPIE Optics and Photonics conference, August 2011, San Diego, USA.
52. **M.L. Pascu**, I.R. Andrei, A. Smarandache, C. Ticos, V. Nastasa, *Unresonant interaction of laser beams with microdroplets*, EOSOF 2011, 24-25 May 2011, Muenchen, Germany.
53. **M.L. Pascu**, V. Nastasa, A. Militaru, A. Staicu, A. Smarandache, S. Fanning, L. Amaral, *Fighting Multiple Drug Resistance of bacteria by treatment with Chlorpromazine modified by exposure to laser radiation*, EOSOF 2011, 24-25 May 2011, Muenchen, Germany.
54. M. Boni, V. Nastasa, I.R. Andrei, C.Lungu, **M.L. Pascu**, *Calorimetric measurements on microdroplets*, Central and Eastern European Committee for Thermal Analysis and Calorimetry, 7-10 September 2011, Craiova, Romania.
55. A. Smarandache, M. Trelles, A. Staicu, J. Moreno-Moraga, **M.L. Pascu**, *Laser beams interaction with Polidocanol foam: physical bases*, SELMQ 2011- XIX Congreso Sociedad Espanola de Laser Medico Quirurgico, 8-10 July 2011, Jerez de la Frontera, Spain.
56. A. Staicu, I. Apostol, I. Iordache, A. Pascu, V. Damian, **M.L. Pascu**, A. Neagoe, V. Iordache, *Laser induced break down spectroscopy on heavy metals in soil samples and paintings layers*, EMSLIBS 2011-6th Euro-Mediterranean Symposium on Laser-Induced Breakdown Spectroscopy, Cesme, September 2011, Izmir, Turkey.
57. A. Smarandache, A. Militaru, H. Goker, A. Pascu, **M.L. Pascu**, *Laser Methods for Pharmaceutical Pollutants Removal*, ATOM-N 2012, 23-26 august 2012, Constanta, Romania.
58. A. Smarandache, M. Trelles, J. Moreno-Moraga, A. Staicu, **M.L. Pascu**, *Laser beams interaction with pharmaceutical foams: Aethoxysklerol case*, ISCP 2012, Sinaia, Romania, 8-11 May 2012.
59. T. Alexandru, **M.L. Pascu**, B. Danko, V. Nastasa, M. Boni, A. Militaru, I. R. Andrei, A. Staicu, A. Hunyadi, S. Fanning, L. Amaral, *Exposure of Chlorpromazine to 266 nm laser beam generates new species with antibacterial properties*, ISCP 2012, Sinaia, Romania, 8-11 May 2012.
60. **M.L. Pascu**, V. Nastasa, M. Boni, T. Alexandru, A. Smarandache, A. Militaru, *Laser methods used to fight the multiple drug resistance (MDR) developed by bacteria*, Exploratory Workshop 2012 „Emerging Analytical to Investigate Nitro-oxidative Stress, July 2012, Bucharest, Romania.
61. A. Militaru, S. Fanning, M. Martins, M. McCusker, V. Nastasa, C. Hansen, P. Guiry, **M.L. Pascu**, *Interaction of medicines modified by exposure to laser radiation with bacteria*, Exploratory Workshop 2012 „Emerging Analytical to Investigate Nitro-oxidative Stress, July 2012, Bucharest, Romania.
62. T. Alexandru, **M.L. Pascu**, A. Armada, B. Danko, V. Nastasa, M. Boni, A. Militaru, I.R. Andrei, A. Staicu, A. Hunyadi, M. Viveiros, L. Amaral, *Activity of irradiated Chlorpromazine with a 266 nm laser beam against efflux pumps system*, Exploratory Workshop 2012 „Emerging Analytical to Investigate Nitro-oxidative Stress, July 2012, Bucharest, Romania.
63. T. Alexandru, A. Hunyadi, B. Danko, M. Boni, A. Militaru, V. Nastasa, **M.L. Pascu**, *Molecular Modifications of 20-Hydroxycodysone by Exposure to Laser Beams*, International Conference "Advanced Topics in Optoelectronics, Microelectronics and Nanotechnologies", August 2012, Constanta, Romania.
64. T. Alexandru, **M.L. Pascu**, B. Danko, V. Nastasa, M. Boni, A. Militaru, I. R. Andrei, A. Staicu, A. Hunyadi, A. Armada, M. Viveiros, L. Amaral, *Generation and biological evaluation of the products formed from the exposure of Chlorpromazine to a 266 nm laser beam*, International Conference "Micro- to Nano-Photonics III- ROMOPTO 2012, September 2012, Bucharest, Romania.
65. A. Militaru (Dinache), M. Martins, M. P. McCusker, T. Alexandru, V. Nastasa, M. Boni, S. Fanning, **M.L. Pascu**, *Laser modified medicines: new alternatives in fighting MDR bacteria*, International Conference on Antimicrobial Research - ICAR2012, November 2012, Lisboa, Portugal.
66. A. Militaru (Dinache), A. Smarandache, S. Alibert, A. Mahamoud, V. Damian, M. Filipescu, L. Frunza, J. M. Pagès, **M.L. Pascu**, *Quinazoline derivatives designed as antimicrobials: spectroscopic studies and microscopy evidence of micro-aggregates formation*, International Conference on Antimicrobial Research - ICAR2012, November 2012, Lisboa, Portugal.
67. A. Staicu, I. Apostol, I. Iordache, A. Pascu, V. Damian, **M.L. Pascu**, *Laser induced breakdown spectroscopy: stratigraphy on painted mock-ups*, International Student Conference on Photonics 2012, May 2012, Sinaia, Romania.
68. M. Boni, V. Nastasa, A. Pascu, A. Staicu, **M.L. Pascu**, *Measurements of Raman Spectra induced by laser beams on droplets*, International Student Conference on Photonics 2012, May 2012, Sinaia, Romania.
69. A. Staicu, A. Pascu, M. Enescu, **M.L. Pascu**, *Photophysical study of Zn Phthalocyanine in solvent mixtures*, 31<sup>st</sup> European Congress on Molecular Spectroscopy (EUCMOS 2012), August 2012, Cluj-Napoca, Romania.
70. A. Staicu, A. Pascu, M. Boni, T. Alexandru, M. Enescu, **M.L. Pascu**, *Spectroscopical studies of zinc phthalocyanine in binary solvent mixtures*, International Conference on Optics "Micro- to Nano-Photonics III- ROMOPTO 2012", September 2012, Bucharest, Romania.

71. V. Nastasa, M. Boni, I.R. Andrei, **M.L. Pascu**, Laser induced modifications on drugs and their use as transport vectors to biological targets, International Conference on Optics "Micro- to Nano-Photonics III- ROMOPTO 2012", September 2012, Bucharest, Romania.
72. **M.L. Pascu**, Molecular Modifications of Phenothiazines by Irradiation with Laser Beams, Sesiunea Anuala Internationala a Academiei Franceze pentru Europa Centrala, June 2012, Chisinau, Moldova.
73. **M.L. Pascu**, V. Nastasa, M. Boni, G.V. Popescu, I.R. Andrei, Studies on the interaction of laser beams with pendant droplets, EOSAM 2012, 25-28 September 2012, Aberdeen, Scotland, UK.
74. **M.L. Pascu**, Lasers Applications in Fighting Multiple Drug Resistance, The Asian Pacific Association for Laser Medicine & Surgery, 23-25 November 2012, Taipei, Taiwan.
75. **M.L. Pascu**, A. Militaru, M. Boni, T. Alexandru, V. Nastasa, I.R. Andrei, Laser Methods Used to Fight Multiple Drug Resistance to Treatment, Laser Florence 2012, 9-10 November 2012, Florence, Italy.
76. M. Boni, V. Nastasa, I.R. Andrei, Angela Staicu, **M.L. Pascu**, Lasing effects in micro droplets, International Conference on Optics "Micro- to Nano-Photonics III- ROMOPTO 2012", 3-6 September, Bucharest, Romania.
77. M. Boni, V. Nastasa, A. Staicu, I.R. Andrei, **M.L. Pascu**, Lasing effects on optically pumped micro-droplets. Seventeenth International School on Quantum Electronics: "Laser Physics and Applications 2012", 24-28 September, Nessebar, Bulgaria.
78. B. Danko, **M.L. Pascu**, Laser-Induced Conversion of ecdysteroids and protoflavones, Cost Action BM 0701-ATENS "Antibiotic Transport and Efflux: New Strategies to Combat Bacterial Resistance" 7th and Final Management Committee Meeting, April 2012, Bucharest, Romania.
79. **M.L. Pascu**, Laser Spectroscopy Group Presentation, Annual Workshop, COST Action MP1106, September 2012, Dublin, Ireland.
80. **M.L. Pascu**, Combined laser techniques used to fight multiple resistance to drug treatment developed by bacteria, International Conference on Optics "Micro- to Nano-Photonics III- ROMOPTO 2012", 3-6 September, Bucharest, Romania.
81. I.R. Andrei, G.V. Popescu, C.M. Ticos, M. Bulinski, **M.L. Pascu**, Analysis of synchronization regimes and optical spectrum of a coupled chaotic laser system, International Conference on Optics "Micro- to Nano-Photonics III- ROMOPTO 2012", 3-6 September, Bucharest, Romania.
82. R. Andrei, G.V. Popescu, C.M. Ticos, **M.L. Pascu**, Optical spectrum analysis of chaotic synchronization regimes of coupled semiconductor lasers, 4th International Interdisciplinary Chaos Symposium on Chaos and Complex Systems"-CCS-2012, 30 Aprilie-2 May 2012, Antalya, Turcia.
83. I.R. Andrei, G.V. Popescu, C.M. Ticos, **M.L. Pascu**, Optical spectrum of a coupled chaotic system, International Student Conference on Photonics (ISCP), 8-11 May 2012, Sinaia, Romania.
84. M. Boni, V. Nastasa, I.R. Andrei, Angela Staicu, **M.L. Pascu**, Laser beams interaction on droplets, International Student Conference on Photonics (ISCP), 8-11 May 2012, Sinaia, Romania.
85. I.R. Andrei, G.V. Popescu, C.M. Ticos, **M.L. Pascu**, Optical Spectrum of a Coupled Laser System under Chaotic Synchronization Conditions, ATOM-N 2012, 23-26 August 2012, Constanta, Romania.
86. I.R. Andrei, T. Alexandru, A. Dinache, M. Boni, V. Nastasa, S. Simion, C. Ticos, **M.L. Pascu**, Interaction of laser beams with microdroplets containing medicines solutions in water, World of Photonics Congress 2013, 2nd EOS Conference on Optofluidics, 13-15 May 2013, Munich, Germany.
87. T. Alexandru, V. Nastasa, A. Staicu, **M.L. Pascu**, FTIR studies of Phenothiazines exposed to laser beam, INDLAS & ISCP, 20-24 May 2013, Bran, Romania.
88. A. Stoicu, E. Radu, V. Nastasa, A. Dinache, T. Alexandru, M. Boni, G. Popescu, A. Staicu, **M.L. Pascu**, Spectrochemical study about the photoreaction products obtained by chlorpromazine exposure to uv laser beam, INDLAS & ISCP, 20-24 May 2013, Bran, Romania.
89. T. Alexandru, A. Staicu, V. Nastasa, A. Pascu, A. Dinache, A. Smarandache, A. Simon, E. Radu, M. Enescu, **M.L. Pascu**, Laser induced cleavage of molecules for application on biological targets, 16th International Graduate summer school - Biophotonics '13, 8-15 June 2013, Inslad of Ven, Sweden.
90. T. Alexandru, A. Armada, V. Nastasa, A. Dinache, E. Radu, A. Stoicu, M. Viveiros, L. Amaral, **M.L. Pascu**, UV photoactivated non-antibiotics in fighting multidrug resistance in Gram-negative bacteria NABATIVI summer school "Targeting Gram-negative bacteria: from drugs discovery to pre-clinical exploitation", 1-3 July 2013, Milan, Italy.
91. T. Alexandru, V. Nastasa, A. Staicu, E. Radu, A. Stoicu, **M.L. Pascu**, Studies of the interaction of UV laser radiation with non-antibiotics using optical and non-optical techniques, Annual Scientific Conference of Faculty of Physics, 21 June 2013, Magurele, Romania.
92. A. Simon, A. Smarandache, T. Alexandru, V. Nastasa, **M.L. Pascu**, Stability studies of Promethazine hydrochloride exposed to 266 nm laser beam, Annual Scientific Conference, 21-22 June 2013, Bucharest, Romania.
93. A. Simon, A. Smarandache, T. Alexandru, V. Nastasa, **M.L. Pascu**, Studies about the stability of Promethazine hydrochloride exposed to 266 nm laser beam, INDLAS & ISCP, 20-24 May 2013, Bran, Romania.
94. I. R. Andrei, M. Boni, G.V. Popescu, C.M. Ticos, S. Simion, **M.L. Pascu**, Investigation of interaction mechanisms of a water microdroplet with a focused 532nm laser pulse for different irradiation conditions, International Student Conference on Photonics (ISCP) – ISCP&INDLAS 2013, 20-24 May 2013, Bran, Romania.
95. A. Smarandache, A. Pascu, I. Andrei, J. Handzlik, K. Kiec-Kononowicz, A. Staicu, **M. L. Pascu**, Study of the optical properties of 2-Thiohydantoin derivatives, International Student Conference on Photonics (ISCP) – ISCP&INDLAS 2013, Bran, Romania, 20-24 May 2013
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141. **M.L. Pascu**, Application of laser techniques in the treatment of varicose veins with Polidocanol foam Instituto medico Vilafortuny, 18 February 2014, Tarragona, Barcelona, Spain.
142. **M.L. Pascu**, Laser beams interactions with single pendant droplets, Advances in Optofluidics: Integration of Optical Control and Photonics with Microfluidics, 23-26 April Dublin, Ireland.
143. **M.L. Pascu**, New data about the use of Polidocanol foams in the treatment of varicose veins assisted by Nd:YAG lasers, Instituto Medico Madrid, 21 February 2014, Madrid, Spain.
144. **M.L. Pascu**, The use of nonantibiotics modified by exposure to laser radiation to fight multiple drug resistance, INDLAS 2014, 19-23 May 2014, Bran, Romania.
145. V. Nastasa, M. Boni, I.R. Andrei, A. Staicu, **M.L. Pascu**, *Enhanced fluorescence emission of pendant micro-droplets containing emulsions*, Bubble and Drop 2015, 6-10 July 2015. Potsdam, Germany.
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154. M. Boni, V. Nastasa, I.R. Andrei, A. Staicu, **M.L. Pascu**, *Comparison between emission spectra of pendant droplets containing dye solutions and emulsions*, Annual Scientific Conference of Faculty of Physics, University of Bucharest, 19 June 2015, Magurele, Romania.



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171. S. Alexandru, S. Adriana, N. Viorel, H. Jadwiga, Kiec-Kononowicz K., **M.L. Pascu**, *Experimental and model IR spectra of new hydantoin derivatives*, "Micro- to Nano-Photonics IV- ROMOPTO 2015", 1-4 September 2015, Bucharest, Romania.
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173. **M.L. Pascu**, M. Boni, I.R. Andrei, *Optically pumped microliter droplets as lasing sources in the visible spectral range*, 11<sup>th</sup> International Conference "Micro- to Nano-Photonics IV- ROMOPTO 2015", 1-4 September 2015, Bucharest, Romania.
174. I.R. Andrei, A. Baleanu, **M.L. Pascu**, *Chaotic low-frequency fluctuations of the radiation emitted by a semiconductor laser working at currents above the laser threshold*, Annual Scientific Conference of Faculty of Physics, University of Bucharest, June 19, 2015, Bucharest, Romania.
175. A. Simon, T. Tozar, M. Boni, V. Damian, V. Dutschk, **M.L. Pascu**, *Biomedical applications of non-antibiotics exposed to uv laser radiation and their interaction with fabric surfaces*, "New frontiers in regenerative medicine and surgery. Interdisciplinarity, research and clinical applications" International Congress, 12, 15- 16 May 2015, Bucharest, Romania.
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181. M. Boni, V. Nastasa, I.R. Andrei, A. Staicu, **M.L. Pascu**, *Laser induced emission of dye emulsion droplets*, Smart and green interfaces: Fundamentals and diagnostics (SGI-FunD), 29-31 October 2015, Sofia, Bulgaria.
182. **M.L. Pascu**, R. Pivulescu, T. Tozar, *Laser methods in fighting multiple drug resistance*, "New frontiers in regenerative medicine and surgery. Interdisciplinarity, research and clinical applications" ISRMS Congress, 12 & 15- 16 May 2015, Bucharest, Romania.
183. **M.L. Pascu**, R. Pivulescu, M. Boni, I.R. Andrei, *Laser beams interaction with droplets in view of biomedical applications*, 6<sup>th</sup> Congress of International PhotoTherapy Association, 9-10 July 2015, Nice, France.
184. M.H. Kaleshtari, I. Ciobanu, D.C. Tranca, A. Palacean, A. Ghita, R. Pivulescu, C. Pivulescu, **M.L. Pascu**, M. Berteanu, *Experimental equipment for treatment with uncoherent light emitted in UV and visible*, 6<sup>th</sup> Congress of International PhotoTherapy Association, 9-10 July 2015, Nice, France.
185. **M.L. Pascu**, M. Boni, I.R. Andrei, *Emission of laser/lasing radiation by optically pumped droplets in pendant position*, "Advances in optofluidics: Integration of optical control and photonics with microfluidics" COST Action MP1205 Conference and MC meeting, 7-8 May 2015, Porto, Portugal
186. A. Simon, A. Stoicu, I.R. Andrei, T. Alexandru, A. Staicu, A. Smarandache, **M.L. Pascu**, *Wetting properties of medicines solutions exposed to laser beams and treated in hypergravity conditions*, "Smart and green interfaces: Fundamentals and diagnostics" (SGI-FunD) Symposium, 29-31 October 2015, Sofia, Bulgaria.
187. A. Simon, A. Stoicu, T. Tozar, **M.L. Pascu**, *Interaction of laser exposed Non-antibiotic solutions with target surfaces in hypergravity conditions: ESA "Spin Your Thesis!" campaign*, 1st Symposium on Space Educational Activities, 9-12 December 2015, Padova, Italy
188. A. Simon, A. Stoicu, T. Tozar, I.R. Andrei, **M.L. Pascu**, *UV laser modified medicine solutions in interaction with target surfaces under hypergravity conditions*; International OSA Network of Students, 20-22 May 2016, Québec, Canada
189. A. Simon, A. Stoicu, T. Tozar, J.J.W.A van Loon, A. Dowson, **M.L. Pascu**, *Laser treated Chlorpromazine in interaction with target surfaces of biomedical interest: revelation of results obtained within ESA's "Spin Your Thesis!" programme*; Annual Scientific Conference University of Bucharest, Faculty of Physics 2016 Meeting, 17 June 2016, Măgurele, Romania
190. A. Simon, I.R. Andrei, V. Damian, **M.L. Pascu**, *Laser exposed medicine impregnated target surfaces subjected to simulated hypergravity condition, in view of space medicine applications*; Advanced Topics in Optoelectronics, Microelectronics and Nanotechnologies (ATOM-N) Conference, 25-28 August 2016, Constanța, Romania
191. T. Tozar, A. Stoicu, V. Nastasa, M. Popa, C. Chifiriuc, I.R. Andrei, **M.L. Pascu**, *Susceptibility of bacteria to photo-chemically generated agents from phenothiazine derivatives*, ICPEPA10, 29 August-2 September 2016, Brasov, Romania.
192. A. Smarandache; A. Pascu; M. Boni; I. Andrei; J. Handzlik; K. Kiec-Kononowicz; A. Staicu; **M.L. Pascu**; *Spectroscopic investigations of novel pharmaceuticals: stability and laser beam resonant interaction*; ICPEPA10, 29 August-2 September 2016, Brasov, Romania.
193. A. Dinache; A. Smarandache; T. Alexandru; A. Pascu; V. Nastasa; A. Simon; M. Enescu; A. Khatyr; F. Sima; **M.L. Pascu**; A. Staicu; *Photosensitized cleavage of some olefins as potential linkers to be used in drug delivery*, ICPEPA10, 29 August-2 September 2016, Brasov, Romania.
194. A. Staicu; A. Pascu; A. Smarandache; T. Alexandru; **M.L. Pascu**; *Photophysics of single wall carbon nanotubes covalently functionalised with porphyrin photosensitizers*; ICPEPA10, ICPEPA10, 29 August-2 September 2016, Brasov, Romania.
195. A. Staicu; M. Boni; I. R. Andrei; A. Smarandache; V. Nastasa; Z. Saponjic; **M.L. Pascu**; *Studies on the laser induced emission of pendant droplets of dye water solutions containing TiO2 nanoparticles*; Smart and Green Interfaces Conference 2016, 4-6 May 2016, Athens, Greece;
196. M. Boni, I.R. Andrei, A. Staicu, **M.L. Pascu**, *Lasing effects in microvolumetric droplets pumped by laser beams*, EMN Meeting On Droplets 10-13 May 2016, Donostia-San Sebastián, Spain;
197. M. Boni, I.R. Andrei, A. Staicu, **M.L. Pascu**, *Time deconvolution of lasing emission of microvolumetric droplets pumped by laser beams*, Annual Scientific Conference University of Bucharest, Faculty of Physics, 17 June 2016, Măgurele, Romania
198. A. Stoicu, T. Tozar, **M.L. Pascu**, *Modeling of molecular electronic structures of medicines used to fight MDR acquired by bacteria*, SPIE Optics+Photonics 2016, 28 August-2 September 2016, San Diego, USA.
199. I.R. Andrei, M. Boni, A. Staicu, **M.L. Pascu**; *Fluorescence emission structure of a side-pumped Rh6G dye-doped micro-droplet*; ICPEPA10, 29 August-2 September 2016, Brasov, Romania.
200. V.Nastasa, K. Samaras, Ch. Ampatzidis, T.D. Karapantsios, M. A. Trelles, J. Moreno-Moraga, A. Smarandache, **M.L. Pascu**; *Sclerosing foams assessment in view of their use in sclerotherapy*, Smart and Green Interfaces Conference 2016, 4-6 May 2016, Athens, Greece.
201. V.Nastasa, K. Samaras, Ch. Ampatzidis, T.D. Karapantsios, M. A. Trelles, J. Moreno-Moraga, A. Smarandache, **M.L. Pascu**, *Optical properties of sclerosing foams in view of their use in sclerotherapy*, Advanced Topics in Optoelectronics, Microelectronics and Nanotechnologies (ATOM-N) Conference, 25-28 August 2016, Constanța, Romania.

ANNEX 5

#### WORKING STAGES ABROAD

- 1972 – 1974: Physics Faculty, University of Texas at Dallas, TX, USA.  
 1978: Institute of Physics, Beijing, Chinese Academy of Sciences.  
 Institute of Atomic Physics, Beijing, China.  
 Faculty of Physics, University of Nanjing, China.  
 Faculty of Physics, University of Canton, China.  
 1982, 1985: Institute of Experimental Physics, Szeged University, Hungary.  
 1986: Institute of Physics, Vilnius, Lithuanian Academy of Sciences, Lithuania.  
 1986: Institute of General Physics, Moscow, USSR Academy of Sciences, USSR.

1992: Centro Informazioni Studi Esperienze (CISE), Milano, Italy.  
1993: PECO stage (3 months), Istituto di Metrologia "Gustavo Colonnetti", Torino, Italy.  
1994, 1995, 1998: Laboratoire de Photophysique Moleculaire, Universite Paris Sud, Orsay, France.  
1997: NATO stage (4 months), Istituto di Metrologia "Gustavo Colonnetti", Torino, Italy.  
1997: Laboratoire pour l'Utilisation de la Radiation Electromagnetique (LURE), Universite Paris Sud, Orsay, France.  
1999: Laboratoire pour l'Utilisation de la Radiation Electromagnetique (LURE), Universite Paris Sud, Orsay, France.  
2000: Laboratoire pour l'Utilisation de la Radiation Electromagnetique (LURE), Universite Paris Sud, Orsay, France.  
2001 – 2004, COST Secretariat, European Commission, DG-RTD, Brussels.  
2004 – 2006, EUROPEAN SCIENCE FOUNDATION – COST Office, Brussels  
2009, Laboratoire de Chimie Physique et Rayonnement Alain Chambaudet UMR EA, Université de Franche-Comté, Besancon

ANNEX 6

#### ACADEMIC RESPONSIBILITIES

**1973:** Assistant Professor, Chair "Optics and Spectroscopy", Physics Faculty, University of Bucharest.  
**1975-to date:** head of 76 students master thesis at the Physics Faculty, University of Bucharest.  
**1985-1990:** Member of the Scientific Council of the Physics Faculty, University of Bucharest.  
**1994-to date:** Professor, "Optics, Spectroscopy, Plasma and Lasers" Chair, Physics Faculty, University of Bucharest.  
**1994-to date:** PhD head, field "Optics, Spectroscopy and Laser Physics", appointed by the Romanian Ministry of Education at the Physics Faculty of the Bucharest University.  
17 PhD theses of my PhD students publicly defended in Romania, France, Germany, USA.

ANNEX 7

#### HEAD OF NATIONAL AND INTERNATIONAL PROJECTS OR EQUIVALENT

1. National Project Coordinator, United Nations Development Program; title of the project: "Development of CO<sub>2</sub> technological lasers" (ROM -87-010), 1987-1993.
2. Coordinator from the Romanian side of the French-Romanian network "Laser Applications in Biology", 1993-1995.
3. Co-chairman and co-organizer of the French-Romanian Workshop "Laser Applications in Biology", Bucharest, 1995.
4. Editor of the Proceedings of the French-Romanian Workshop "Laser Applications in Biology", Romanian Journal of Biophysics, vol.5, No.4, 1995.
5. Coordinator from the Romanian side of the French-Romanian network "Laser Applications in Environment Protection", 1997-2001.
6. Chairman and Organizer of the VI-th International Congress of the European Medical Laser Association, Bucharest, 1998.
7. Vice-President of the European Medical Laser Association (EMLA), 1998 – 2000.
8. Chairman and Organizer of the III-rd National Conference on Laser Applications in Medicine and Biology, Bucharest, November 1999.
9. Editor of the Proceedings of the III-rd National Conference on Laser Applications in Medicine and Biology, Bucharest, Rom. Journal of Biophysics, vol.10, No. 3- 4, 2000.
10. Co-chairman of the 14th International Congress on Laser Medicine (ICLM), 1999, Florence.
11. Chairman and Organizer of the IV-th National Conference on Laser Applications in Medicine and Biology, Bucharest , September 2000; this conference was satellite of the EPS - International Congress on Optics ROMOPTO 2000, Bucharest.
12. Co-editor/main editor of the LASER FLORENCE 1999 Proceedings, SPIE vol. 4166, ISBN 9780819438225, 2000.
13. Co-chairman of the 15th International Congress on Laser Medicine (ICLM), 2000, Florence.
14. Co-editor/main editor of the LASER FLORENCE 2000 Proceedings, SPIE vol. 4606, ISBN 9780819443458, 2001.
15. European Commission Expert-Evaluator; reference nr. EE 19981A21335.
16. Contribution in Romania as member of the experts group (I was the only expert currently working outside Romania) to elaborate the National Strategy for RTD for the period 2007- 2013.
17. Head of more than 250 national projects and 15 national programs/national programs chapters / sections in Romania.  
A selection of projects, on domains is given below:
  - 17.1 Development of nitrogen pulsed lasers and nitrogen pulsed laser pumped tunable dye lasers: 1975–1987.
  - 17.2 Basic research about the time structure of ultrashort laser light pulses emitted by tunable dye lasers: 1977 – 1980.
  - 17.3 Development of laser/optical/physical methods to monitor traces of pollutants in environment: air, water, soil, biosphere: 1976 – to date.
  - 17.4 Basic research about laser beam interactions with tissues and laser biomolecular spectroscopy: 1982 - to date.
  - 17.5 Development of laser infrared optical components for high power technological lasers: 1985 – 1994.
  - 17.6 Basic research on biological structures as new laser active media: 1994–to date.
  - 17.7 Development of laser medical equipment: 1982 – 2000.
  - 17.8 Development of optical systems to monitor variations of heavy water concentrations in natural water at traces levels for nuclear power plants: 1984 – 1989.
  - 17.9 Basic research about chaos in laser systems: 2002 - to date.
  - 17.10 Development of new optical methods to fight resistance to antibiotics and medicine treatment: 2003 – to date. This new research field is currently defined as photochemotherapy.A selection of national programs I was responsible (from the program construction to the program follow-up stage) is given below:
  - 17.I National Programme of Lasers, Laser Active Media and Applications:1984–1990.
  - 17.II National Programme of Cold Plasma: 1983 – 1990.
  - 17.III National Programme for Particle Beam Accelerators: 1983 - 1989.
  - 17.IV National Programme for Physical Methods in Environment Protection:1991–2001.
  - 17.V National Programme on Biophotonics: 1995 – 2003.

18. Evaluation expert of the Romanian: CNCISIS and ANCS- PNCD.
19. Co-chairman of the 16th Int. Congress on Laser Medicine (ICLM), 2001, Florence.
20. Co-editor/main editor of the LASER FLORENCE 2001 Proceedings; SPIE vol. 4903, No.28, ISBN 9780819446909, 2002.
21. Co-chairman of the 17th Int. Congress on Laser Medicine (ICLM), 2002, Florence.
22. Co-editor / main editor of the LASER FLORENCE 2002 Proceedings SPIE, vol. 5610, ISBN 9780819451880, 2003
23. Co-chairman of the 18th Int. Congress on Laser Medicine (ICLM), 2003, Florence.
24. Co-editor / main editor of the LASER FLORENCE 2003 Proceedings; SPIE vol.5610, ISBN 9780819455635, 2004.
25. Co-chairman of the 19th Int. Congress on Laser Medicine (ICLM), 2004, Florence.
26. Co-editor / main editor of the LASER FLORENCE 2004 Proceedings, SPIE vol. 5968, ISBN 9780819459862, 2005.
27. Co-chairman of the 20th Int. Congress on Laser Medicine (ICLM), 2005, Florence.
28. Co-chairman of the 21st Int. Congress on Laser Medicine (ICLM), 2006, Florence.
29. Projects VIASAN – 5 projects in the time interval 2001 – 2005.
30. Projects CEEX- 2 projects in the time interval 2005 – 2007.
31. Project CNMP PALIRT, 2007 – 2010.
32. Project CNMP SENSO, 2007 – 2010.
33. Project CNMP LSCHEM, 2008 – 2011.
34. EUROPEAN NETWORK: European Institute for Biomedical Imaging Research (INFLPR among EIBIR Member Institutions of excellence (ENCITE – FP7 European Network for Cell Imaging and Tracking Expertise).

ANNEX 8

#### HONORS AND AWARDS:

1. "SCIENTIFIC MERIT", Romanian medal, 1985.
2. Romanian Academy Award "DRAGOMIR HURMUZESCU", 1986; for a group of papers on "Tunable dye lasers and their spectroscopic applications". Awarded in 1990.
3. "Excellence Award" for the "Laser Physics" chapter within the book LASER IN MEDICINE AND DENTISTRY, Ed. Z. Simunovic, Vitagraf.d.o.o., Croatia, 2000; awarded by the Romanian Agency for Science, Technology and Innovation in 2000.
4. Romanian Academy Award "Gheorghe Marinescu", 2003; for the book, "Lasers in Neurosurgery", L. Danaila, **M.L. Pascu**, Ed. Academiei, Bucharest, ISBN 973 -27-0802-6, 2001.
5. Member of Romanian Academy of Medical Sciences, 2001.
6. "IFA Excellence Award and Medal Award"; awarded by Institute for Atomic Physics for the scientific and management achievements, for the contributions to the development of laser physics and for their applications at national and international level, 2017.
7. Doctor Honoris Causa, University of Medicine and Pharmacy Carol Davila, Bucharest, 2017.

ANNEX 9

#### SELECTED LIST OF COST ACTIONS, ACTIVITIES AND TECHNICAL COMMITTEES FOR WHICH I WAS RESPONSIBLE SCIENCE OFFICER

1. COST B8: "ODONTOGENESIS":
  - \* 12th Management Committee Meeting, Egmond aan Zee, NL; 13 Oct. 2001; FINAL MEETING
2. COST B10:"BRAIN DAMAGE REPAIR"
  - \* 9th Management Committee Meeting, Cascais/Lisboa, Portugal; 8 December 2001.
  - \* 10th Management Committee Meeting, Carmona/Sevilla, Spain; 1st June 2002.
  - \* 11th Management Committee Meeting, Dublin, Ireland; 19th October 2002
  - \* 12th Management Committee Meeting, Uppsala, Sweden; 28th June 2003
  - \* 13th Management Committee Meeting, Warsaw, Poland; 6th December 2004
  - \* 14th Management Committee Meeting (FINAL), Lisbon, Portugal; 10th July 2004
3. COST B11: "QUANTITATION OF MAGNETIC RESONANCE IMAGE TEXTURE"
  - \* 8th Management Committee Meeting, Angers, France; 20 October 2001
  - \* 9th Management Committee Meeting, Bergen, Norway; 4 May 2002-FINAL MEETING
4. COST B12:"RADIOTRACERS FOR IN VIVO ASSESSMENT OF BIOLOGICAL FUNCTION"
  - \* 7th Management Committee Meeting, Vienna, Austria; 17th November 2001
  - \* 8th Management Committee Meeting, Dresden, Germany; 7th March 2002
  - \* 9th Management Committee Meeting, Lisbon, Portugal; 16th November 2002
  - \* 10th Management Committee Meeting, Pisa, Italy; 8th November 2003
  - \* 11th Management Committee Meeting, Lisbon, 22nd May, 2004
  - \* 12th Management Committee Meeting, Ljubljana; 12th -13th November, 2004
  - \* COST B12 final Conference preparatory meeting, Brussels, 19th March, 2005
  - \* 13th MANAGEMENT COMMITTEE and WGs MEETING, (FINAL MEETING), Warsaw, 22 - 23 April 2005

5. COST B13: "LOW BACK PAIN : GUIDELINES FOR ITS MANAGEMENT"

- \* 5th Management Committee Meeting, Liège, Belgium; 15 December, 2001
- \* 6th Management Committee Meeting, Palma de Majorca, Spain; 28 April, 2002
- \* 7th Management Committee Meeting, Ferrara, Italy; 20 September, 2003
- \* 8th Management Committee Meeting, Amsterdam, NL; 6 March 2004.
- \* 9th Management Committee meeting, Palma de Majorca, Spain (FINAL MEETING), Oct. 2004

6. COST B14: "HYPERBARIC OXYGEN THERAPY "

- \* 7th Management Committee Meeting + WG's, Ljubljana (Portoroz), Slovenia; 13-15 Dec. 2001
- \* 8th Management Committee Meeting+WG's, Thessaloniki, Greece; 18-20 April 2002
- \* 9th Management Committee Meeting+WG's, Prague, Czech Republic; 17<sup>th</sup>-19th October 2002
- \* 10th Management Committee Meeting, Barcelona, Spain; September 18-20<sup>th</sup>, 2003
- \* 11th Management Committee Meeting, Turku, Finland; May 8<sup>th</sup>, 2004
- \* 12th Management Committee Meeting, Lille, France (FINAL MEETING); December 2004

7. COST B15: "MODELLING IN DRUG DEVELOPMENT"

- \* 13th MANAGEMENT COMMITTEE MEETING, Brussels, 1<sup>st</sup> – 2<sup>nd</sup> April 2004
- \* 14th Management Committee Meeting (FINAL MEETING), Geneva, July 2004

8. COST B16: "REVERSAL OF ANTIBIOTIC RESISTANCE (BY INHIBITION OF TRANS-MEMBRANE TRANSPORT)"

- \* 4th Management Committee Meeting, Marseille, France ; 1<sup>st</sup> December 2001
- \* 5th Management Committee Meeting, Warsaw, Poland; 29<sup>th</sup> June 2002
- \* 6th Management Committee Meeting, Berlin, Germany ; 30<sup>th</sup> November 2002
- \* 7<sup>h</sup> Management Committee Meeting, Rhodes, Greece; 19<sup>st</sup> October 2003
- \* 8th Management Committee Meeting, Sønderborg, Denmark; 29<sup>th</sup> November 2003
- \* 9th Management Committee Meeting, Gent, Belgium; 29 May 2004
- \* 10th Management Committee Meeting, Corfu, Greece, 29 October 2004
- \* 11<sup>th</sup> Manag Com and WG1, WG2, WG3, WG4 Meetings, Antalya, Turkey, 13 – 14 May, 2005
- \* 12<sup>th</sup> Manag Com and WG1, WG2, WG3, WG4 Meetings, Novara, Italy, 14-15<sup>th</sup> October, 2005

9. COST B17: "INSULIN RESISTANCE, OBESITY AND DIABETES MELLITUS IN THE ELDERLY"

- \* 4th Management Committee Meeting, Prague, Czech Republic; 16 February 2001
- \* 5th Management Committee Meeting, Glasgow, United Kingdom; 9 September 2001
- \* 6th Management Committee Meeting, Bari, Italy; 17 November 2002
- \* 7th Management management Committee Meeting, Gentofte, Denmark; 14 September 2002
- \* 8th Management Committee Meeting, Madrid, Spain; 30 May 2004
- \* 9th Management Committee Meeting, Krakow, Poland; 12 December 2004.
- \* 2<sup>nd</sup> Int. Conf. on Molecular Basis of Metabolic Regulation in conjunction with COST ACTION B17 "INSULIN RESISTANCE, OBESITY AND DIABETES MELLITUS IN THE ELDERLY", 10<sup>th</sup> MC and Joint Meetings of WGs 2, 3, and 4, Bari , Italy, June 24 – 25, 2005
- \* 11<sup>th</sup> MC and Joint WG meetings, in conjunction with Obesity, Diabetes and Ageing: From Insulin Secretion to Insulin Action–FINAL MEETING, Geneva, Switzerland, Oct 28 – 30, 2005.

10. COST B18: "CORPUS CAVERNOSUM EMG IN ERECTILE DYSFUNCTION "

- \* 2<sup>nd</sup> Management Committee Meeting, Nijmegen, the Netherlands; 3 November 2001
- \* 3<sup>rd</sup> Management Committee Meeting, Brussels, Belgium; 8 June 2002
- \* 4th Management Committee Meeting; Copenhagen, Denmark; 23 November 2002
- \* 5th Management Committee Meeting, Vienna, Austria; 13 December 2003.
- \* 6th Management Committee Meeting, Amsterdam, NL; 12 June 2004.
- \* 7th Management Committee Meeting, Amsterdam, NL – FINAL CONFERENCE, 18 Oct 2005.

11. COST B19: "MOLECULAR CYTOGENETICS OF SOLID TUMORS"

- \* 3<sup>rd</sup> Management Committee Meeting, Intra-Verbania, Italy; 22 September, 2001
- \* 4th Management Committee Meeting, Sesimbra / Lisboa, Portugal; 16 March, 2002
- \* 5th Management Committee Meeting, Barcelona, Spain; 14 September 2002
- \* 6th Management Committee Meeting, Gdansk, Poland; 5 July 2003
- \* 7th Management Committee Meeting, Odense, Denmark, 1<sup>st</sup> May 2004
- \* 8th Management Committee Meeting, Brno, Czech Republic, 18 September, 2004
- \* 10th Management Committee Meeting, Brussels, Belgium, 15 July 2005,
- \* JOINT MEETING EUROPEAN CONCERTED ACTION COST B19 11<sup>th</sup> MC AND WORKING GROUPS MEETINGS - CANCERPOLE PACA, Nice, France, Oct21–22, 2005
- \* 12th Management Committee Meeting, FINAL joint meeting with the 10<sup>th</sup> EUROPEAN WORKSHOP ON MOLECULAR CYTOGENETICS IN HUMAN SOLID TUMORS, La Grande Motte – Le Ponant, France, June 8 - 11, 2006.

12. COST B20:" MAMMARY DEVELOPMENT, FUNCTION AND CANCER"

- \* 2<sup>nd</sup> Management Committee Meeting, Ayr, Scotland, UK; 7-8 December 2001
- \* 3<sup>rd</sup> Management Committee Meeting, Utrecht, The Netherlands; 10-11 May, 2002
- \* 4th Management Committee Meeting, Gent, The Netherlands; 13-14 September 2002
- \* 5th Management Committee Meeting, Montpellier, France; 4 July 2003

- \* 6th Management Committee Meeting, Treviso, Italy; 25 October 2003
  - \* 7th Management Committee Meeting, Warsaw; 19 June 2004
  - \* 8th Management Committee Meeting, Utrecht; 20 November 2004
  - \* 9th Management Committee COST B20 meeting, WG 1, WG3 meetings  
 "Proteins and signaling pathways controlling mammary epithelial cell function", Frankfurt am Main, Germany, June 3 – 4, 2005
  - \* Joint meeting WG 1, 2, 4 and 5, 10th MC COST B20 meeting and III International Workshop on Mammary Gland Biotechnology: Nutrition, Genomics and Breast Cancer, Barcelona, Spain, 29 September – 1 October 2005
  - \* 11th MC Meeting joint with EMBO Conference on Common Molecular Mechanisms of Mammary Gland Development and Breast Cancer Progression, Dublin, Ireland, 6 – 8 June, 2006.
13. COST B21: "PHYSIOLOGICAL MODELLING OF MR IMAGE FORMATION"
- \* 1st Management Committee Meeting, Brussels, Belgium; 15 December 2003
  - \* 2nd Management Committee Meeting, Dundee, GB; 3th March 2004
  - \* 3rd Management Committee Meeting, Cyprus; 2nd October 2004
  - \* WG3 and WORKING GROUP ON TEXTURE TEXTBOOK (WGTT) MEETINGS, Brussels, Belgium, 17th January, 2005
  - \* 4th MC and WG1, WG2, WG3, WG4 meetings, Łódź, Poland, 6th – 8th October, 2005
  - \* 5th MC and WGs meetings, Alghero, Sardinia, Italy, 31 March – 1 April, 2006
14. COST B22: "DRUG DEVELOPMENT FOR PARASITIC DISEASES"
- \* 1st Management Committee Meeting, Brussels, Belgium; 24 November, 2003
  - \* 2nd Management Committee Meeting, Brussels, Belgium; 5 March, 2004
  - \* 3rd Management Committee Meeting, Anvers, Belgium; November 2004
  - \* 4th Management Committee and WG meetings, GRANADA, SPAIN, 9 – 10 June 2005
  - \* 2nd ANNUAL MEETING and 5th MC meeting, SIENA, Sept 29 – Oct 01, 2005
15. COST B23: "ORAL FACIAL DEVELOPMENT AND REGENERATION"
- \* 1st Management Committee Meeting, Brussels, Belgium; 8 December 2003
  - \* 2nd Management Committee Meeting, Gent, Belgium; 21 March 2004
  - \* 3rd Management Committee Meeting, York; 22 July 2004
  - \* 2nd joint meeting of WG2 and WG4 meeting, Debrecen, Hungary; 29 – 30 October 2004
  - \* GROUPS 2 and 4 joint meeting with the 8th INTERNATIONAL CONFERENCE ON THE CHEMISTRY AND BIOLOGY OF MINERALIZED TISSUES, Alberta, Canada; October 18-22, 2004
  - \* GENES, CELLS AND BIOMATERIALS FOR ORAL-FACIAL REGENERATION, JOINT MEETING of the 4th MANAGEMENT COMMITTEE and Working Groups 1, 2, 3, and 4, Barcelona, Spain, 12, 13, 14 and 15 MAY 2005
  - \* Phenotype and genotype, Working group 3, Strasbourg, France, Friday 14th and Saturday 15th October 2005
  - \* 5th Management Committee meeting, Athens, Greece, 4 – 6 November 2005
  - \* 6th Management Committee and WGs Meeting Helsinki, Finland, 7–8 May, 2006.
16. COST B24: LABORATORY ANIMAL SCIENCE AND WELFARE
- \* 1st Management Committee Meeting, Brussels, Belgium; 26th April 2004
  - \* 2nd Management Committee Meeting, Nantes, France; 17 June 2004
  - \* 3rd Management Committee Meeting, Stockholm, Sweden; November 14, 2004
  - \* 4th Management Committee and WG1, WG2 and WG3 Meeting, Roma, Italy, June 5-6th, 2005
  - \* 5th Management Committee and WG1, WG2, WG3 and WG4 Meetings, Elche, Alicante, Spain, October 5th - 7th , 2005
  - \* 5th MC and WG3 and WG4 Meetings, Brussels, Belgium, March 27th - 28th , 2006
17. COST B25 "PHYSIOLOGICALLY BASED PHARMACOKINETICS AND DYNAMICS"
- \* 1st Management Committee Meeting, Brussels, Belgium; 25th May 2005
  - \* 2nd Management Committee Meeting, Brussels, Belgium; 20th October, 2005
  - \* 3rd Management Committee and WG1/2/3 Meetings, Brussels, Belgium, 20-21 April 2006
18. COST B26 "OBSTRUCTIVE SLEEP APNEA"
- \* 1st Management Committee Meeting, Brussels, Belgium; 26th April 2004
  - \* 2nd Management Committee Meeting, Milan, Italy; 28th -30th October, 2005
19. COST B27 "ELECTRIC NEURONAL OSCILLATIONS AND COGNITION (ENOC)"
- \* 1st Management Committee Meeting, Brussels, Belgium; 26th April 2004
  - \* 2nd Management Committee Meeting, Istanbul, Turkey; 2nd – 4th September, 2005
  - \* 3rd Management Committee and WG1, WG2, WG3 Joint Meetings, Skopje, FYROM, 12 - 15 May, 2006
20. COST B28 "ARRAY TECHNOLOGIES FOR BSL 3 AND BSL 4 PATHOGENS"
- \* 1st Management Committee Meeting, Brussels, Belgium; 26th April 2004
  - \* 2nd Management Committee Meeting, Bratislava, Slovakia; 20th -23rd November, 2005
21. COST B29 "FOR A BETTER UNDERSTANDING OF CHRONIC OBSTRUCTIVE PULMONARY DISEASE (COPD) EXACERBATIONS"
- \* 1st Management Committee Meeting, Brussels, Belgium; 23 January 2006

22. COST B35 "LIPID PEROXIDATION ASSOCIATED DISORDERS- LPO"

\* 1st Management Committee Meeting, Brussels, Belgium, 2 June 2006

OTHER COST ACTIONS:

1. COST P07: "X- RAY AND NEUTRON OPTICS"- COST ACTION within the field: PHYSICS
2. COST 845: "BRUCELLOSIS IN ANIMALS AND MAN"- COST ACTION assigned from the field AGRI-BIO.

TECHNICAL COMMITTEES

1. Technical Committee MEDICINE & HEALTH: 12 meetings
2. AD HOC GROUP on BIOMATERIALS: 2 meetings
3. Domain Committee BIOMEDICINE AND MOLECULAR BIOSCIENCES, 2 meetings.

STRATEGIC MEETINGS

1. COST – ESF STRATEGIC MEETING on ENVIRONMENT AND HEALTH, 16 – 18 February 2005, Brussels – responsible person.
2. COST –ESF STRATEGIC MEETING on FOOD AND HEALTH, 1 – 3 February, 2006 – responsible person.
3. COST-NATO STRATEGIC MEETING on HEALTH, SIMULATION AND SECURITY, October 2006.

LIAISON EXPERT

1. COST Biomedicine and Biomolecular Sciences Domain Committee to ESF - Physical and Engineering Sciences Domain Committee.
2. I participated at two PESC meetings, in 2007 and 2008.

November 2018

Mihail Lucian Pascu