

CURRICULUM VITAE

GHEORGHE DINESCU

Short profile

Gheorghe Dinescu is Senior Scientist 1st Degree at NILPRP, founder and leader of the Research Group "Plasma Processes, Materials and Surfaces" at NIPLPR-consisting of 15 members, and Professor and PhD supervisor with the Doctoral School of Physics, University of Bucharest. Physicist by background (Faculty of Physics, University of Bucharest, he has multidisciplinary education and experience, given by the studies in Biophysics (MSc. 1976), specialization in Optics, Spectroscopy, Lasers, Plasma (PhD degree in 1987, research activity from 1982 in IFTAR and from 1996 in the National Institute for Laser, Plasma and Radiation Physics - NILPRP). He is co-author of more than 120 papers published in ISI international journals, more than 100 contributions published in Proceedings of international Conferences, more than 30 invited lectures at International Conferences and Universities from abroad. He is acting as member of the European Physical Society (EPS), president of the Plasma Physics Division of the Romanian Physical Society, former member of the Board of Directors of the International Plasma Chemistry Society (IPCS, for two terms, 8 year), member of the International Advisory Board of the Plasma Processes and Polymers (Wiley VCH). He directed more than 25 national of international research projects. His main expertise is in plasma science and plasma processing for material synthesis and modification: a) physical and chemical processes in reactive plasmas, as basis for surface modification (chemistry, nanostructuring of polymers, nanomembranes) and thin film (polymer, metal) deposition; b) synthesis of nanostructured carbon (carbon nanowalls, carbon nanofibers, nanoparticles) and nanocomposites (carbon/metals, metal nanoparticles incorporated in carbon or polymer matrixes, core-shell nanoparticles); c) plasma creation of biointerfaces and study of their interaction with cells; d) non-thermal plasma jets for processing at atmospheric pressure in gas and liquid phases.

SURNAME: DINESCU
FIRST NAME: Gheorghe

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Physics (NILPRP)
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Date and place of birth: 20. 09. 1952, Posesti, Prahova, Romania

Nationality: Romanian

Education:

- PhD Thesis: Plasma Physics, University of Bucharest, Romania
- Degree in Physics, Specialization Biophysics: University of Bucharest, Romania

Positions:

- Senior Scientist, 1st degree, National Institute for Laser, Plasma and Radiation Physics, Bucharest, Romania;
- Head of Low Temperature Plasma Physics Department (over 10 years, 1996- 2000; 2002-2007), National Institute for Laser, Plasma and Radiation Physics (NILPRP), Bucharest, Romania
- Research Group Leader, Group Plasma Processes, Materials and Surfaces, NILPRP
- Professor, Doctoral School of Physics, University of Bucharest

Languages: English, French

Research activities:**(i) Main field:**

Plasma Physics, Plasma Material Processing, Treatment of Surfaces, Thin Films

ii) Other fields:

Biophysics; Material Science

iii) Current research interest:

- Fundamental processes in plasmas and plasma diagnostics;
- Electrical discharges in gases, atmospheric pressure plasma sources;
- Plasma interaction with materials, surfaces and liquids;
- Biomedical applications of plasmas;
- Plasma techniques for nanostructured carbon materials (carbon nanotubes, nanowalls) synthesis.
- Functional organic and inorganic materials (optical, electrical, adhesion controlled biointerfaces) deposited by plasma and laser techniques;

Participation to National projects

- Project Director or responsible of partner team to more than 20 National Projects in PNCDI I and PNCDI II

Participation to International Projects:

- Projects in the EURATOM Programme (2005-present)
- Project in EUREKA Programme (2005-2008)
- Participant with projects in FP4, FP5 and FP6 European Programmes
- Projects in Bilateral Agreements: between Romania and France IFA-CEA (2 projects) and collaboration between Romania and Russia with IUCN Dubna (3 projects)
- Projects in COST- ESF, MC member in Action 527, action MP1101, Action TD 1208
- Project in M-ERANET programme, on textile processing: "PlasmaTex" (2016-2018)

Publications:

- Number of papers in ISI journals: over 120
- Number of contributions (published as extended proceedings) at international scientific conferences: over 100
- Invited talks, seminars: over 30
- More than 1000 citations(WoK- self citations included)

Volumes, co-editor

- M. Mutlu, G. Dinescu, R. Forch, J.M. Martin-Martinez, J. Vyskocil (Editors), Plasma Polymers and Related Materials, Hacettepe University Press, ISBN 975-491-194-0, 2005;
- B. Mitu, G. Dinescu (Guest Editors) Journal of Optoelectronics and Advanced Materials –volume 10, no. 8, 2008;

- C. Boulmer-Leborgne, G. Dinescu, J. Krueger, S. Orlando, H.-U. Habermeier, (Guest Editors), Topical Issue: Laser and Plasma Processing of Advanced Materials, Journal of Optoelectronics and Advanced Materials - volume 12, no. 3, 2010.
- B. Mitu, G. Dinescu (Editors) Book of Abstracts "International Conference on Plasma Physics and Applications", INFPLPR, ISSN 2344-0481, 2013, 182 pages.

Educational Activities:

- Professor, Doctoral School of Physics, University of Bucharest
- Coordination and supervision of PhD students and MSc Students;

Membership:

- European Physical Society (EPS)
- International Plasma Chemistry Society (IPCS)
- International Society for Optical Engineering (SPIE)
- European Optical Society (EOS)
- President of Plasma Division, Romanian Physical Society

Others:

- Member in the International Advisory Board of the ISI Journal "Plasma Processes and Polymers", Wiley VCH
- Member of Board of Directors of International Plasma Chemistry Society (IPCS): 2006-2009, 2010-2013;
- Member of the Advisory Board of the 12th International Conference on Plasma Surface Engineering (PSE), September 13 - 17, 2010, Garmisch-Partenkirchen, Germany (and for the 13th PSE, September 2012, and for 14th PSDE, September 2014);
- Member of the Scientific Committee of the XX European Conference on Atomic and Molecular Physics in Ionized Gases (ESCAMPIG), Novi Sad, Serbia, 2010 (and for XXI ESCAMPIG, 2012, Portugal, and for XXII ESCAMPIG, Greifswald, Germany)
- Member of the International Programme Committee of the 24th SPPT-Prague 2010 (and of 23rd Symposium on Plasma Physics and Technology (SPPT) - Prague 2008)
- Co-chair and principal organizer of the 16th International Conference of Plasma Physics and Applications (16th CPPA) June 20-25, 2013, Magurele-Bucharest, Romania (and co-chair of the 15th CPPA July 1-5, 2010, Iasi, Romania and co-chair and principal organizer of the 14th CPPA, 14-18 September 2007, Brasov, Romania)
- Co-organizer of the E-MRS Symposium Q: Laser and plasma processing for advanced materials, Strasbourg, 2009
- Chair of 20th International Colloquium on Plasma Processes (CIP)-Saint Etienne, France, and co-chair of the 18th CIP, Nantes, July 2011, and member of the Scientific Committee of the 17th CIP-June 2009, Marseille and for 21th CIP, Nice, June 2017.
- Chair of the
- Workgroup Leader and member in the Management Committee (MC) in the COST 527 Action " Plasma Polymers and Related Materials" (2000-2005), member in MC of COST action MP1101 "Biomedical Applications of Atmospheric Pressure Plasma Technology" (2011-2015); member in the MC of COST action TD 1208 "Electrical Discharges with Liquids" (2012-2016)
- Member in the International Advisory Committee of 5th Central European Symposium on Plasma Chemistry, 25-29 August, 2013, Balaton, Hungary (and of 6th CESPC, 6-10 September 2015, Bressanone, Italy)
- Member in the International Scientific Committee of the International Symposium of Plasma Chemistry, July 10-15, 2015, Antwerp, Belgium
- Expert evaluator of projects in the frame of the European Programmes FP6, FP 7 and NSF; Expert evaluator for National Research Projects in Belgium and Italy.

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Gheorghe Dinescu