

# CURRICULUM VITAE

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## Education

- 2007 – 2010      Ph.D. theses at University of Craiova under the direction of Prof. Dr. Maria Dinescu
- Title: “Laser processing of soft materials”
  - Work carried out at NILPRP, National Institute for Lasers, Plasma and Radiation Physics, Bucharest, Photonic Processing of Advanced Materials Group, under the supervision of Prof. Dr. Maria Dinescu
- 2007 – 2009      Master of Science in Biophysics and Cellular Biotechnologies at “Carol Davila” University of Medicine and Pharmacy, Bucharest, under the supervision of Prof. Dr. Eugenia Kovacs
- 2004 – 2007      University of Craiova, Faculty of Physics, Diploma work: “Relational Object Data Base - Oracle” under the supervision of Conf. Dr. Constantin Lupsoiu

## Research stages

- Paul Scherrer Institute, Materials Group, Switzerland
- 16 June 2009 – 30 July 2009
  - 13 September 2009 – 15 December 2009
  - 28 February 2010 – 6 March 2010
  - 29 March 2010 – 2 April 2010
  - 1 August 2010 – 14 August 2010
- „O.M. Corbino”, Rome, Italy: 27 September 2010 – 30 September 2010

## Publications as first author

- **A. Palla-Papavlu**, C. Constantinescu, V. Dinca, A. Matei, A. Moldovan, B. Mitu, M. Dinescu, Polyisobutylene thin films obtained by matrix assisted pulsed laser evaporation for sensors applications, *Sensor Letters*, volume 8, issue 3, 502 – 506, (2010)
- **A. Palla-Papavlu**, V. Dinca, I. Paraico, A. Moldovan. J. Shaw-Stewart, C. W. Schneider, E. Kovacs, T. Lippert, M. Dinescu, Microfabrication of polystyrene

microbead arrays by laser induced forward transfer, *Journal of Applied Physics*, 108, 033111, (2010)

- **A. Palla-Papavlu**, V. Dinca, C. Luculescu, J. Shaw – Stewart, T. Lippert, M. Nagel, M. Dinescu, Laser induced forward transfer of soft materials, *Journal of Applied Optics*, 12: 124014, (2010)
- **A. Palla-Papavlu**, I. Paraico, J. Shaw-Stewart, V. Dinca, T. Savopol, E. Kovacs, T. Lippert, A. Wokaun, M. Dinescu, Liposome micropatterning based on laser induced forward transfer, *Applied Physics A*, DOI 10.1007/s00339-010-6114-1, (2010)
- **A. Palla-Papavlu**, V. Dinca, V. Ion, A. Moldovan, B. Mitu, C. Luculescu, M. Dinescu, Characterization of polymer thin films obtained by pulsed laser deposition, accepted for publication in *Applied Surface Science*, (2010)

### Publications as co-author

- V. Dinca, R. Fardel, F. Di Pietrantonio, D. Cannatà, E. Verona, **A. Palla-Papavlu**, A. Matei, M. Dinescu, T. Lippert, Laser-Induced Forward Transfer: An Approach to Single-Step Polymer Microsensor Microfabrication, *Sensor Letters*, volume 8, issue 3, 436-440, (2010)
- C. Constantinescu, **A. Palla-Papavlu**, A. Rotaru, P. Florian, F. Chelu, M. Icriverzi, A. Nedelcea, V. Dinca, A. Roseanu, M. Dinescu, Multifunctional thin films of lactoferrin for biochemical use deposited by MAPLE technique, *Applied Surface Science* 255: 5491–5495, (2009)
- V. Dinca, **A. Palla Papavlu**, A. Matei, C. Luculescu, M. Dinescu, T. Lippert, F. Di Pietrantonio, D. Cannata, M. Benetti, E. Verona, A comparative study of DRL-lift and lift on integrated polyisobutylene polymer matrices, *Applied Physics A*, 101: 429–434, (2010)
- V. Dinca, **A. Palla-Papavlu**, M. Dinescu, J. Shaw Stewart, T. K. Lippert, F. Di Pietrantonio, D. Cannata, M. Benetti, E. Verona, Polymer pixel enhancement by laser-induced forward transfer for sensor applications”, *Applied Physics A*, 101: 559 – 565, (2010)
- V. Dinca, **A. Palla-Papavlu**, I. Paraico, T. Lippert, A. Wokaun, M. Dinescu, 2D spatially controlled polymer micro patterning for cellular behavior studies, *Applied Surface Science*, DOI:10.1016/j.apsusc.2010.09.113, (2010)

### Conferences

#### Talks

- **A. Palla-Papavlu**, V. Dinca, E. Kasotakis, A. Mitraki and M. Dinescu  
*Amyloid fibrils thin films obtained by MAPLE process*  
IV International SPIE Students Chapters Meeting, 14-16 May 2009, Torun (Poland) 2009

- **A. Palla-Papavlu**, C. Constantinescu; V. Dinca, A. Matei, A. Moldovan, B. Mitu and M. Dinescu  
*Polyisobutylene thin films obtained by matrix assisted pulsed laser evaporation for sensor applications*  
E-MRS Spring Meeting 8-12 June 2009, Strasbourg (France)

## Posters

- **A. Palla-Papavlu**, V. Dinca, M. Moiescu, D. Iancu  
*Microprinting of DNA patterns by Nd:YAG laser*  
6<sup>th</sup> European Symposium on Biomedical Engineering, Chania, Crete, 19 – 21 June 2008
- V. Dinca, **A. Palla Papavlu**, C. Constantinescu, P. Florian, M. Icriverzi, F. Chelu, N. Scarisoreanu, M. Filipescu, A. Moldovan, A. Roseanu and M. Dinescu  
*Preliminary studies on biological compounds layers and patterns for biomedical applications*  
1<sup>st</sup> International School “Laser Surface Interactions for new materials production: tailoring structure and properties”, Isola di San-Servolo, Venezia (Italy), 13 – 20 July 2008
- **A. Palla-Papavlu**, V. Dinca, V. Ion, A. Moldovan, B. Mitu, C. Luculescu and M. Dinescu  
*Characterization of polymer thin films obtained by pulsed laser deposition*  
E-MRS Spring Meeting 7- 11 June 2010, Strasbourg (France), 2010  
➤ **Young student award for the best paper presented**
- **A. Palla-Papavlu**, I. Paraico, J. Shaw-Stewart, V. Dinca, T. Savopol, E. Kovacs, T. Lippert, A. Wokaun and M. Dinescu  
*Liposome micropatterning based on laser induced forward transfer*  
II<sup>nd</sup> International School “Laser Surface Interactions for new materials production: tailoring structure and properties”, Isola di San-Servolo, Venezia (Italy), 11 – 18 July 2010  
➤ **Roger Kelly award for best poster presented**