

Europass curriculum vitae

Eng. Phys. Monica Simileanu

Personal information

Surname / First name	Simileanu Monica
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E-mail	simileanu@inoe.inoe.ro
Nationality	Romanian
Date of birth	19.02.1981
Gender	Female

Occupational field

Conservation & Restoration by Optoelectrical Techniques

Work experience

Dates	
July 2010 - present	Scientific Researcher III
Occupation or position held	Responsible of various research themes and projects; Experimental set-ups; Investigation/Diagnosis/Restoration/Conservation of organic artworks (paper, leather, parchment, textile, pigments): <ul style="list-style-type: none">- Laser Spectroscopy: Laser Induced Breakdown Spectroscopy, Laser Induced Fluorescence Spectroscopy- Mass Spectroscopy (UV-VIS-NIR), Colorimetry- Digital documentation: Photo & Microscopy- Complex studies on the effect of Q-switched Nd:YAG lasers on cultural heritage substrates, focused on organic materials.
Main activities and responsibilities	
Name and address of employer	National Institute of Research and Development for Optoelectronics – INOE 2000
Type of business or sector	Centre for Restoration by Optoelectrical Techniques - CERTO
Dates	May 2007- June 2010
Occupation or position held	Scientific Researcher
Main activities and responsibilities	Responsible of various research themes; Investigation/Diagnosis/Restoration/Conservation of organic artworks (paper, leather, parchment, textile, pigments); Study on the effects of solid state lasers (Q-switched Nd:YAG) on different materials, working regimes, ablation thresholds etc.
Name and address of employer	National Institute of Research and Development for Optoelectronics – INOE 2000
Type of business or sector	Centre for Restoration by Optoelectrical Techniques - CERTO

Dates**November 2004 – April 2007****Occupation or position held****Junior Researcher**

Main activities and responsibilities

Studies and documentation concerning the application of the advanced photonic techniques in conservation and restoration of organic artworks

Name and address of employer

National Institute of Research and Development for Optoelectronics – INOE 2000

Type of business or sector

Centre for Restoration by Optoelectrical Techniques - CERTO

Education and training

Dates

2006 – 2010

Title of qualification awarded

PhD. in Physics

Principal subject

Photonic methods for investigation and diagnosis of museal artifacts

Name and type of organization providing education

Politehnica University, Physics Department

Level in international classification

ISCED 6

Dates

October 2004 – February 2006

Title of qualification awarded

Master in Sciences (Physics)

Principal subjects

Advanced studies in Optics, Spectroscopy, Plasma, Lasers

Name and type of organisation providing education

University of Bucharest, Faculty of Physics

Level in international classification

ISCED 6

Dates

October 1999 – June 2004

Title of qualification awarded

Engineer Physicist , B.Sc.

Principal subjects

Optics, Spectroscopy, Plasma, Lasers & Metrology and Material Flaws

Name and type of organisation providing education

University of Bucharest, Faculty of Physics

Level in international classification

ISCED 5

Personal skills and competences

Mother tongue(s)

Romanian

Other language(s)

*Self-assessment**European level (*)***English****Spanish****French**

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

(*) Common European Framework of Reference (CEF) level

Computer skills and competences

Microsoft Office, Origin, Corel Draw, Adobe PhotoShop, LabView, Acad

Driving licence

B

Annexes:

Appendix 1: Published papers

Appendix 2: Scholarships and Grants & Professional Courses

Published Papers:

1. J.Striber, W.Maracineanu, **M.Simileanu**, R.Savastru, D.Mohanu - *Laser cleaning application on Lady's Church Atrium from Bucharest City Centre*, Nonconventional Technologies Review, Proc.of ICNcT 2005, nr.4, p.89-92, 2005, ISSN 1454-3087
2. W.Maracineanu, J.Striber, C.Deciu, **M.Simileanu**, R.Radvan, R.Savastru – *PRO RESTAURO- Rețeaua centrelor de excelență pentru tehnici avansate de restaurare-conservare*, Loc si Locuire - IANUS, HAR Publishing House, 10-11/2005, p.212-241, ISSN 1582-7801
3. **M.Simileanu**, W.Maracineanu, C.Deciu, J.Striber, R.Radvan - *A complex portable optoelectronic setup for on site interventions. Case studies*, Proceedings of SPIE: 7th International Conference on Vibration Measurements by Laser Techniques: Advances and Applications, vol. 6345, p. 2006, ISBN: 0-8194-6421-X
4. **M.Simileanu**, J.Striber, R.Radvan - *Investigations into the effect of wavelength in laser cleaning of paper*, Acta Technica Napocensis, Series: Applied Mathematics and Mechanics, 49, vol.4, pp. 923-928, 2006, ISSN 1221-5872
5. W.Maracineanu, **M.Simileanu**, D.Ene, C.Deciu, J.Striber, R.Radvan, R.Savastru – *Trends on Photonics for Restoration and Conservation of Cultural Heritage. Romanian Experience*, Revista Monumentelor Istorice, Vol. 75, Nr. 1-2, p. 24-37, 2006, ISSN 1220-174X
6. **M. Simileanu**, R. Rădvan, J. Striber, W. Mărăcineanu, C. Deciu, N. Herăscu - *Tehnici fotonice de restaurare și conservare a operelor de artă ce au în componență materiale organice*, Proceedings of „Patrimoniul cultural din piele și pergament - abordări moderne pentru caracterizare, conservare și/ sau restaurare“ Symposium, pdf, Certex Publishing House, Bucharest, 2006, ISBN 973-87211-9-9
7. W.Maracineanu, **M.Simileanu**, C.Deciu, J.Striber, R.Radvan - *On site restoration/conservation interventions using a complex portable optoelectronic setup. Case studies*, Acta Technica Napocensis, Series: Applied Mathematics and Mechanics 49, Vol.4, p.917-922, 2006, ISSN 1221-5872
8. **M.Simileanu**, W.Maracineanu, J.Striber, C.Deciu, D.Ene, L.Angheluta, R.Radvan, R.Savastru - *Advanced Research Technology for Art and Archaeology - ART4ART*, J. Optoelectron. Adv.Mater., Vol.10, No.2, p.470-473, 2008, ISSN 1454-4164, On-Line 1841-7132
9. **M.Simileanu**, M.Giurginca, L.Miu, R.Radvan - *Influence of laser restoration method on the collagen based artifacts*, J. Optoelectron. Adv.Mater., Vol.10, No.8, p.2168-2173, 2008, ISSN 1454-4164, On-Line 1841-7132
10. **M.Simileanu**, G.Averginidou, L.Angheluta, R.Radvan, J.Striber, L.Miu - *Laser Cleaning of 8th c. Parchment with Polychrome Inscriptions*, Optoelectron. Adv.Mater. – Rapid Comm., Vol.2, Iss.9, p.587-592, 2008, ISSN 1842-6573
11. **M.Simileanu**, J.Striber, W.Maracineanu, R.Radvan - *Aspects concerning Laser Conservation of Organic Artworks*, Romanian Reports in Physics, Vol. 60, No. 1, pp. 105–110, 2008, ISSN 1221-145143, ON-line ISSN 1841-8759
12. N.Herascu, **M.Simileanu** - *Color changes in the artwork materials aged by UV radiation*, Romanian Reports in Physics, Vol. 60, No. 1, pp. 95-103, 2008, ISSN 1221-145143, On-line ISSN 1841-8759
13. L.Angheluta, J.Striber, R.Radvan, **M.Simileanu** - *Automated Optoelectronic Device for Qualitative Analysis of the Artwork Surfaces using the LIF technique*, Romanian Reports in Physics, Vol.60, No.4., pp.1053-1063, 2008, ISSN 1221-145143, On-line ISSN 1841-8759
14. M.Strlič, J.Kolar, G.Pajagić-Bregar, V.Ljubić, R.Radvan, **M.Simileanu**, W.Maracineanu, J.Hildenhagen, M.Castillejo, M.Oujja, W.Kautek, V.Zafirooulos, T.Sinigalia, O.Boldura, N.Melniciuc - *Use of laser and optical diagnostic techniques on paper: the Pomelnic from Sucevița monastery (Romania)*, Lasers in the Conservation of Artworks, Ed. Taylor&Francis Group, p.357-360, 2008, ISBN 978-0-415-47596-9
15. M.Oujja, M.Castillejo, W.Maracineanu, **M.Simileanu**, R.Radvan, V.Zafirooulos, D.Ferro - *LIBS analysis of metal artifacts from Sucevita Monastery, Romania*, Lasers in the Conservation of Artworks, Ed. Taylor&Francis Group, p.133-139, 2008, ISBN 978-0-415-47596-9
16. W.Kautek, M.Oujja, M.Castillejo, J.Hildenhagen, V.Ljubic, **M.Simileanu**, W.Maracineanu, R.Radvan, V.Zafirooulos, N.Melniciuc, G.Pajagic-Bregar, M.Strlic - *Laser Cleaning and Multi-method diagnostics of textile pieces of art*, Lasers in the Conservation of Artworks, Ed. Taylor&Francis Group, p.371-374, 2008, ISBN 978-0-415-47596-9
17. **M.Simileanu**, R.Radvan, L.Miu, M.Giurginca - *Study of the Effect of Laser Cleaning on Collagenous Structures*, The e-Journal of Nondestructive Testing - Proceedings of The 9th Int. Conference on NDT of Art 2008 Jerusalem, Israel, May 2008, 2008, ISSN 1435-4934

18. R.Radvan, D.Ene, W.Maracineanu, **M.Simileanu**, C.Deciu, L.Angheluta, J.Striber, V.Dragomir - *Monitoring and Prediction of Cultural Heritage Artifacts Conservation Status*, The e-Journal of Nondestructive Testing - Proceedings of The 9th Int. Conference on NDT of Art 2008 Jerusalem, Israel, May 2008, 2008, ISSN 1435-4934
19. **M.Simileanu**, W.Maracineanu, J.Striber - *Religious Polychrome Wood Objects Investigated/ Restored Using Photonic Techniques*, The e-Journal of Nondestructive Testing - Proceedings of The 9th Int. Conference on NDT of Art 2008 Jerusalem, Israel, May 2008, 2008, ISSN 1435-4934
20. R.Radvan, J.Striber, **M.Simileanu**, L.Angheluta, D.Ene – *Multispectral Imaging applied on valuable artwork objects from Sucevita Monastery and from “Dimitrie Gusti” Village Museum from Romania*, Proc. of “Science Meets Archaeology & Art History” Balkan Symposium on Archaeometry, 18-20 September 2008, Ohrid Republic of Macedonia, p.17-25, 2008
21. **M.Simileanu**, R.Radvan, L.Miu, M.Giurginca - *Positive Findings in Laser Restoration of Collagenous Structures: Leather and Parchment*, CHRESP 2008: Cultural Heritage Research Meets Practice, The 8th European Conference on Research for Protection, Conservation and Enhancement of Cultural Heritage - Conference Preprints, pp. 121-122, Nov.2008, Ljubljana, Slovenia, ISBN 978-961-6551-26-7
22. **M.Simileanu**, D.Ene, R.Radvan, R.Savastru, V.Dragomir - *Risk Assessment of Open Air Ethnographic Museum from Bucharest by Photonics*, CHRESP 2008 CHRESP 2008: Cultural Heritage Research Meets Practice, The 8th European Conference on Research for Protection, Conservation and Enhancement of Cultural Heritage - Conference Preprints, pp.136-138, Nov.2008, Ljubljana, Slovenia, ISBN 978-961-6551-26-7
23. L.Angheluta, J.Striber, R.Radvan, I.Gomoiu,V.Dragomir, **M.Simileanu** - *Early Fungal Contamination Tracking*, International Journal of Systems Engineering, Applications and Development, Iss.4, Vol.2, p.147-156, 2008
24. **M.Simileanu**, R.Radvan, M.Giurginca, L.Miu - *Laser restoration method for parchment artifacts*, Optoelectron. Adv.Mater. – Rapid Comm., Vol. 3, No. 3, March 2009, p. 282 – 289, ISSN 1842-6573
25. **M.Simileanu**, R.Radvan, N.Puscas - *Overview on Laser cleaning of Leather Objects*, buletinul UPB, series A – Mathematics and Applied Physics, nr 2, pp 65-75, 2009, ISSN 1223-7027
26. **M.Simileanu**, R.Radvan, N.Puscas - *Underwater LIBS investigations setup for metals' identification*, Sci. Bull. UPB, series A – Mathematics and Applied Physics, nr.4, 2010

Patents:

1. Mobile Laboratory for the Investigation, Diagnosis, Monitoring and Restoration of Patrimonial Objects, registration nr. OSIM: RO125258-A2, 26.02.2010, 2.19,
2. Optoelectronic Device and Process for the Qualitative Analysis of Art Objects Surfaces by LIF Techique, registration nr. OSIM: RO125259-A2, 26.02.2010
3. Optoelectronic Device/Mounting and Process for the Stratigraphical Analysis of The Chemical Composition of Art Objects Surface Layers Material by LIBS Technique, registration nr. OSIM: RO125260-A2, 26.02.2010

Scholarships and Grants:

- 2004-2005: Study Scholarship, University of Bucharest, Physics Faculty
- 14-27 August 2005: NATO ASI supported SUSSP60: *Laser Plasma Interaction* Summer School, St. Andrews University, Scotland, UK
- 2005-2006: Excellence Scholarship, University of Bucharest, Physics Faculty
- 18-23 June 2006: EUROPEAN COMMISSION, Research DG, Human Resources and Mobility, Marie Curie Conferences & Training Course supported the *7th International Conference on Vibration Measurements by Laser Techniques & Short Course*, University of Ancona, Italy
- 23-28 October 2006: The Government of Italy, The United Nations Educational, Scientific and Cultural Organization (UNESCO) and The International Atomic Energy Agency (IAEA) by Abdus Salam International Centre for Theoretical Physics (ICTP) support the *International Workshop on 'Science for Cultural Heritage'*, Trieste, Italy.
- 2006-2010: Doctoral Scholarship, Politehnica University of Bucharest, Physics Department
- 2006 – 2010: CNCSIS Doctoral Scholarship

Professional Courses:

- February 2004 „*Labview*”, organized by INOE 2000, with the support of Politehnica University from Bucharest
- 10-18 April 2006 „*Project Manager*”, organized by CIMP: Center for Implementation of Performant Management, Bucharest
- 18 May – 6 June 2007 „*Reducing Risks to Collections*” – organized by ICCROM in collaboration with Romanian Ministry of Culture; supported by scholarship granted by the Ministry of Culture
- 2-6 September 2008 “Conservation and Restoration of Parchments International Seminar & Workshop”, Torino, Italia.
- 10-14 November 2008 “Historical paper workshop” organized during the 8th The 8th European Conference on Research for Protection, Conservation and Enhancement of Cultural Heritage, supported by the European Union through its 7th Research Framework Programme (under the activity 6.3 "Environmental technologies"), Ljubljana, Slovenia