

# EUROPEAN CURRICULUM VITAE FORMAT



## PERSONAL INFORMATION

Name  
Home Address  
Telephone (office)  
Mobile  
Fax  
E-mail  
Nationality  
Date of birth

**ROXANA RADVAN**  
**15, RAMNICU SARAT STR., 3 BUCHAREST, ROMANIA**  
**+40314056398, +40214930290**  
**+40733950888**  
**+4021 4574522**  
**radvan@inoe.inoe.ro**  
Romanian  
13.09.1966

## WORK EXPERIENCE

- Dates (from – to)
- Name and address of employer
  - Type of business or sector
  - Occupation or position held
- Main activities and responsibilities
  - Dates (from – to)
- Name and address of employer
  - Type of business or sector
  - Occupation or position held
- Main activities and responsibilities

**1990- 1996**  
INSTITUTE OF OPTOELECTRONICS - IOEL SA  
RESEARCH  
RESERACHER  
MEDICAL DEVICES  
**1996- PRESENT**  
NATIONAL INSTITUTE OF RESEARCH AND DEVELOPMENT FOR OPTOELECTRONICS  
RESEARCH  
SENIOR RESEARCHER - HEAD OF DEPARTMENT  
OPTOELECTRONICAL EQUIPMENT FOR RESTORATION/CONSERVATION

## EDUCATION AND TRAINING

- Dates (from – to)
- Name and type of organisation providing education and training
- Principal subjects/occupational skills covered
  - Title of qualification awarded
  - Level in national classification
- Dates (from – to)
- Name and type of organisation providing education and training
- Principal subjects/occupational skills covered
  - Title of qualification awarded
  - Level in national classification
- Dates (from – to)
- Name and type of organisation providing education and training
- Principal subjects/occupational skills covered

**1992-1996**  
TECHNICAL ARMY ACADEMY, OPTOELECTRONICS DEPARTMENT  
  
UNCONVENTIONAL OPTICAL COMPONENTS FOR OPTOELECTRONICS  
  
DOCTOR  
HIGH  
  
**1985-1990**  
"POLITEHNICA" UNIVERSITY, FACULTY OF MECHATRONICS AND APPLIED OPTICS  
  
APPLIED OPTICS/ OPTICAL METROLOGY  
  
ENGINEER  
HIGH  
  
**1997-1998**  
TRADE CHAMBER OF WIEN (AUSTRIA) AND CEDRU (CENTRE FOR HUMAN RESOURCES- ROMANIA)  
INTERNATIONAL BUSINESS MANAGEMENT

## PERSONAL SKILLS AND COMPETENCES

*Acquired in the course of life and career  
but not necessarily covered by formal  
certificates and diplomas.*

MOTHER TONGUE

ROMANIAN

OTHER LANGUAGES

- Reading skills
- Writing skills
- Verbal skills

ENGLISH

GOOD

GOOD

GOOD

GREEK

- Reading skills
- Writing skills
- Verbal skills

POOR

POOR

POOR

## ORGANISATIONAL SKILLS AND COMPETENCES

*Coordination and administration of  
people, projects and budgets; at work, in  
voluntary work (for example culture and  
sports) and at home, etc.*

Deputy Director of JOAM Review (ISSN 1454-4164) / ISI indexed;

Member of Permanent Scientific Committee of LACONA Conference ("LASER IN CONSERVATION OF ARTWORK).  
Elected Chair of LACONA for 2007-2009;

Works on national and international restoration sites for investigation part of restoration-conservation projects – Stavropoleos Church, Lady's Church (XVII-th., Bucharest, Romania), Funeral Pined Tombs from Tomis IV th A.D. (nowadays Constanta, Romania), Caved Churches Ensamble from IXth A.D. –Basarabi, Romania; Tsatsapuri-Alchi (Kashmir and Jammu, India) – Buddhist temples XIV-XVIth A.D.

Establish a Thematic Network for Extra-European Collaboration in Modern Investigation for Art and Archaeology "INDALI" with Jadavpour University from Kolkata, India.

Coordinates ART4ART Project that developed first mobile laboratory for monitoring-investigation-diagnosis by non-contact optoelectrical techniques and laser cleaning for restoration purpose.

Initiator and Vice-President of COST G7 "Artwork Conservation by Laser" that involved a large dialogue with more than 40 representatives from 20 European countries (<http://alpha1.infim.ro/cost>);

Member of International Society for Optical Engineering (SPIE), European Optical Society, Institute of Physics (IoP)

Coordinator of Eureka E!2094 CLEANART Project (first Eureka Project with Romanian coordination). Project on CH field;

Director of Project CULTURE 2000 – CLT/2005/A1/CHLAB/RO-488, "Saving sacred relics of European medieval cultural heritage". (2005-2006), including on site European campaign

Co-organizer of Project CULTURE 2000 – CLT 2003/A1/RO-515, "Advanced On-Site Restoration Laboratory for European Antique Heritage Restoration", including on site European campaign

Rapporteur for CE-DGXII to the 5<sup>th</sup> EC Conference "Cultural Heritage Research: a Pan-European Challenge", 16-18 May 2002, Krakow-Poland.

Collaborates with Romanian National Institute of Economics for a large investigation on the restoration market requests for new optoelectrical technologies.

Coordinate several national projects: on environment control and analysis in old centre of Bucharest, in medieval Bran Castle, for new equipment construction – as UV portable equipment for decontamination and collaborate with national institutions for rehabilitation of few sites in an important area of Romania – Saxons villages (from South Transylvania) – UNESCO Sites.

## TECHNICAL SKILLS AND COMPETENCES

*With computers, specific kinds of  
equipment, machinery, etc.*

High precision laser cleaning – on Nd:YAG workstation;  
Multispectral camera (ARTIST camera- MUSIS Camera);  
LIBS system development (first station in development in Romania)  
PC operator

ARTISTIC SKILLS  
AND COMPETENCES  
*Music, writing, design etc.*

None

OTHER SKILLS  
AND COMPETENCES  
*Competences not mentioned above.*

Coordinates students' activity for graduation thesis and for licenses exams – from National University of Art from Bucharest, University of Architecture from Bucharest, "Politehnica" University, University of Bucharest - Faculty of Physics.

## BOOKS

- Co-EDITOR OF "LASER IN CONSERVATION OF ARTWORK", TAYLOR & FRANCIS GROUP ISBN-9780203818664 0203818660 (2011)
- Co-EDITOR OF "LASER IN CONSERVATION OF ARTWORK", TAYLOR & FRANCIS GROUP ISBN-13:978-0-415-47596-9 (2008)
- CATALOGUE OF NATIONAL ART UNIVERSITY'S MUSEUM, ISBN 978-973-1922-06-5 (2008)

## SELECTIVE PUBLICATION LIST

1. Angheluta Laurentiu-Marian, Adrian Moldovan, **Roxana Radvan** – "The teleoperation of a LIF scanning device", Buletinul UPB (in print)
2. M. Simileanu, **R. Radvan** – "Remote method and set up for submerged archaeological remain characterization", Journal of Optoelectronics and Advanced Materials, vol. 13, No.5, Mai 2011
3. Dragoș Ene, **Roxana Radvan** – Comparison of radar exploration from ground and low altitude for fast archaeological dissemination, Optoelectronics and Advanced Materials – Rapid Communications, vol.5, No.7, iul2011,pg. 806-8
4. **Roxana Radvan** - "Corroborated Advanced Research Technologies for remote Operation" - Workshop on Application of Laser in Mechanical Industries and Seminar on Application of Laser in Materials Processing - SCHOOL OF LASER SCIENCE AND ENGINEERING, Jadavpur University - Kolkata – 700 032, INDIA, pg.323-329 – Proceeding, 2010
2. Maria GIURGINCA, Lucretia MIU, Monica SIMILEANU, Andrei GIURGINCA, **Roxana Radvan** – "Effect of the laser cleaning on the fluorescence characteristics of the parchment" – REVISTA DE CHIMIE, ISSN 0034-7752 (in print)
3. Laurențiu M. Anghelută, **Roxana Rădvan**, Dragoș Ene – "Digital mapping of on-site related photonic investigations over a 3-D surface area", CSIC Thematic Network on Cultural Heritage. Electronic Newsletter COALITION - ISSN 1579-8410 (acceptata spre publicare)
4. Dragoș Ene, **Roxana Radvan** "Scientific Research Aspects of the Historical Monument from Heresti, Romania", E-conservation the online magazine, - No. 13, February 2010, pag. 53-63, ISSN: 1646-9283
5. Monica Simileanu, Roxana Radvan, Nicolae Puscas – "Underwater LIBS investigations setup for metals' identification" - Sci. Buletinul UPB, nr. 4, 2010
6. Joakim Striber, **Roxana Radvan**, Laurentiu Angheluta – "Laser Spectroscopy Methods For an 18<sup>th</sup> Century Grisaille Painting Investigation" – Journal of Optoelectronics and Advanced Material, Vol.11, No.11, November 2009, pg. 1815 – 1820, ISSN 1454-4164
7. M. Simileanu, **R. Radvan**, M.Giurginca, L. Miu – "Laser restoration method for parchment artefacts"– Optoelectronics and Advanced Materials–Rapid Communications, vol.3 nr. 3, martie 2009, pg. 282-289
8. Dragoș Ene, Roxana Radvan – "Accurate tangible and intangible replicas of the Basarabi-Murfatlar Rupestral Assembly from Romania" - CSIC Thematic Network on Cultural Heritage. Electronic Newsletter COALITION - ISSN 1579-8410 Newsletter No. 17 January 2009, pg 6-11
9. Dragoș ENE, Walter MĂRĂCINEANU, Cristian DECIU, **Roxana RADVAN** "Three dimensional imaging of cultural heritage as a basis for getting to know cultural assets" - REVISTA "BULETIN STIINTIFIC" UNIVERSITATEA "POLITEHNICA" BUCURESTI - U.P.B. Sci. Bull., Series A, Vol. 70, No. 2, 2008 ISSN 1223-7027
10. D. Ene, **R. Radvan**, J. Striber – INTERACTIVE DIGITAL REPRESENTATION OF SASPUL TEMPLE – International Archives of Photogrammetry, Remote Sensing and Spatial Information Sciences, Vol.XXXVIII-5/W1, ISSN Number 1682-1777 (in curs de publicare)
11. Monica Simileanu, **Roxana Radvan**, Nicolae PUSCAS – "Overview on Laser cleaning of LEATHER OBJECTS", REVISTA "BULETIN STIINTIFIC" UNIVERSITATEA "POLITEHNICA" BUCURESTI - U.P.B. ISSN 1223-7027 Buletinul UPB, seria A - Matematica si fizica aplicate, nr 2, pp 65-75, 2009, ISSN 1223-7027
12. Laurentiu Angheluta, Joakim Striber, **Roxana Radvan**, Ioana Gomoiu, Vivian Dragomir – "Early Fungal Contamination Tracking" Mathematics and Computers in Biology and Chemistry - Proceedings of the 9<sup>th</sup> WSEAS International Conference on Mathematics and Computers in Biology and Chemistry (MCBC'08, Published by WSEAS Press [www.wseas.org](http://www.wseas.org) Extended WSEAS, Nr. Inreg. 27-473
13. **R. Radvan**, M. Simileanu, W. Maracineanu, J. Striber, C. Deciu, D. Ene, L. Angheluta, R. Savastru "Advanced research technology for art and archaeology – ART4ART mobile laboratory"- Journal of Optoelectronics and Advanced Materials, vol.10, nr.2, ISSN 2-2008, pg. 470-473
14. Monica Simileanu, Maria Giurginca, Lucretia Miu, **R. Radvan** - "Influence of laser restoration method on the collagen based artifacts", Journal of Optoelectronics and Advanced Materials Vol.10, No.8, august 2008, p.2168-2173
15. M. Simileanu, J. Striber, **R. Radvan** – "Aspects concerning laser conservation of organic artworks" Romanian Report in Physics, Volume 60, Number 1, 2008, ISSN 1221-1451 1451
16. **R.Radvan**, M.Simileanu, L.Miu, M.Giurginca – "Study of the Effect of Laser Cleaning on Collagenous Structures", The e-Journal of Nondestructive Testing - Proceedings of The 9<sup>th</sup> Int. Conference on NDT of Art 2008 Jerusalem, Israel, May 2008, ISSN 1435-4934
17. **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 9<sup>th</sup> Int. Conference on NDT of Art 2008 Jerusalem, Israel, May 2008, ISSN 1435-4934
18. Laurentiu Angheluta, Joakim Striber, **Roxana Radvan**, Ioana Gomoiu, Vivian Dragomir – "Non-contact and Non-invasive Photonic Device for Qualitative Fungal Contamination Control" – Mathematics and Computers in Biology and Chemistry - Proceedings of the 9<sup>th</sup> WSEAS International Conference on Mathematics and Computers in Biology and Chemistry (MCBC'08, Published by WSEAS Press [www.wseas.org](http://www.wseas.org), ISBN: 978-960-6766-75-6; ISSN 1790-5125, vol.2, pg. 199-205
19. M. Simileanu, Georgia Avgerinidou, L. Angheluta, **R. Radvan**, L. Miu, J. Striber "Laser cleaning of XVIII<sup>th</sup> C. parchment with polychrome inscriptions"- Optoelectronics and Advanced Materials - Vol.2, No.9, September 2008, Pg. 587-592
20. M. Popescu, **R. Radvan**, N. Popovici, S. Dan, Roxana Savastru, C. Ghica, F. Sava<sup>a</sup> "The stability of cadmium chalcogenide pigments in the process of laser cleaning of painted surface", First International Workshop on Amorphous and Nanostructured Chalcogenides – Fundamentals and Applications, JOAM, Vol 3, No 4, December 2001

21. 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., No., pp., 2008, ISSN 1221-145143, On-line ISSN 1841-8759
22. **R. Radvan** et al., "Working distance control and aiming system for artwork restoration equipment with laser beam", SPIE vol.4430, pg 325-328, 2001;
23. **R. Radvan** s.a, „Whiteness behavior of artwork,s various materials after cleaning process using Nd:YAG laser beam", SPIE vol.4430, pg 329-333, 2001;
24. Gomoiu, **R. Radvan**, D. Mohanu, R. Savastru – "Limit of Nd:YAG application in artwork restauration", J. Optoelectronic Adv. Mater., vol. 4, No. 2, 409, 2002
25. **R. Radvan**, R. Savastru, D. Savastru, F. Sava, R. Cristescu, G. Socol, "Structure of bulk and thin films of poly-methyl-methacrylate (PMMA) polymer prepared by pulsed laser deposition, J. Optoelectron. Adv. Mater., Vol. 4, No. 4, 965, December 2002.
26. Ioana Gomoiu, **R. Radvan**, Victor Coman, Roxana Savastru, Dan Mohanu,„Comparison study of selected biological contaminants behavior after controlled laser irradiation", -5th Conf EC Cultural Heritage, ISBN 92-894-4412-6;
27. **Roxana Radvan**, Victor Coman, Andrei Rudnic, Suzana Dan, Roxana Savastru, Dan Mohanu, Ioana Gomoiu, "Microclimate control to Bran Castle Museum", 5th EC Conference on Cultural Heritage – Cracovia- Polonia, 16 mai 2002, ISBN 92-894-4412-6
28. **R. Radvan** et al, "Comparison of Laser Regime for Stamp Cleaning", , vol. SPIE - Laser Techniques and Systems in Art Conservation, Proc SPIE, vol. 4402.
29. **R. Radvan** s.a , "Chromatic Analysis of the Pigments Behavior After Laser Irradiation", SPIE vol. 4430, pg. 317-324, 2001;

**CO-AUTHOR OF 12 PATENTS.**

AWARD from INNOVA- EUREKA 2009 Fair (19-21 November 2009), Brussels ,Belgium , for Patent Nr. A/00159/18.02.2009 - "Microscope with laser beam for 3D artworks high-precision cleaning"  
<http://www.ancs.ro/index.php?action=viewart&artid=2059&idcat=673>

AWARD-Exhibition of Inventions -Geneva -18th - 22nd April 2012 for:

Patent Number: RO125131-A2 - INTELLIGENT NETWORK FOR MONITORING MICROCLIMATE AND POLLUTANTS CI APPLICATION IN IDENTIFYING AND CONTROLLING THE EFFECT THEREOF ON THE ARTISTIC COMPONENTS IN I MUSEUMS AND ART GALLERIES

Patent Number(s): RO125874-A2 LASER MICROSCOPE FOR CLEANING TWO DIMENTIONAL ART OBJECTS WHICH MICROSCOPE FOR SURVEY AND MEASUREMENT AND IS A PRECISE OPERATING INSTRUMENT FOR CLEANING OBJECTS BY MEANS OF A LASER RADIATION

