

## Europass Curriculum Vitae



### Personal information

First name(s) / Surname(s)	<b>Velimir Labinac</b>		
Address(es)	Omladinska 14, 51000 Rijeka, Hrvatska		
Telephone(s)	+385 345 042	Mobile:	+385 098 278 328
Fax(es)	+385 345 207		
E-mail	<a href="mailto:vlabinac@phy.uniri.hr">vlabinac@phy.uniri.hr</a> ; <a href="mailto:velimir.labinac@ri.t-com.hr">velimir.labinac@ri.t-com.hr</a>		
Nationality	Croatian		
Date of birth / Place of birth	15.08.1967. / Rijeka		
Gender	Male		

### Desired employment / Occupational field

**Teaching and/or scientific research at university and/or research institute in the field of physics**

### Work experience

Dates	1996.- 1999.
Occupation or position held	Research and Teaching Assistant
Main activities and responsibilities	Teaching, scientific research, physics graduate student
Name and address of employer	Department of Physics, Faculty of Education, Omladinska 14, 51000 Rijeka
Type of business or sector	Higher education and science
Dates	2000.- 2006.
Occupation or position held	Teaching Expert Associate
Main activities and responsibilities	Teaching, Departmental ECTS Coordinator
Name and address of employer	Department of Physics, Faculty of Humanities and Social Sciences, Omladinska 14, 51000 Rijeka
Type of business or sector	Higher education and science
Dates	2007.- 2011.
Occupation or position held	Lecturer
Main activities and responsibilities	Teaching, Departmental ECTS Coordinator,
Name and address of employer	Department of Physics, Faculty of Humanities and Social Sciences, Omladinska 14, 51000 Rijeka
Type of business or sector	Higher education and science
Dates	2012.-
Occupation or position held	Senior Lecturer
Main activities and responsibilities	Teaching, Departmental ECTS Coordinator, Departmental Website Manager
Name and address of employer	Department of Physics, University of Rijeka, Radmile Matejčić 2, 51000 Rijeka

### Education and training

Dates	1989.-1995.
Title of qualification awarded	Professor of Physics and Mathematics
Principal subjects/occupational skills covered	Elementary and high-school teacher in physics and mathematics; Scientific research in the field of physics
Name and type of organisation providing education and training	Faculty of Education Rijeka
Level in national or international classification	ISCED 5

### Personal skills and competences

Mother tongue(s) **Croatian language**

Other language(s)

Self-assessment

*European level (\*)*

### English language

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

(\*) [Common European Framework of Reference for Languages](#)

Social skills and competences

—

Organisational skills and competences

—

Technical skills and competences

Basic knowledge and skills for work at metal turner workshop;  
Basic knowledge in computer hardware and how to repair it.

Computer skills and competences

Working knowledge in MS Windows software: Mathematica, Corel, MS Office, MikTeX, Frontpage, Dreamweaver;  
Basic knowledge in programming languages: Basic, Fortran, Pascal, Mathematica, Matlab

Artistic skills and competences

Classical (Spanish) guitar  
Electrical bass guitar  
Drums  
Singing

Other skills and competences

Sports: basketball, karate, swimming, football (soccer), volleyball

Driving licence

Category B vehicle  
Category C vehicle

### Additional information

—

### Annexes

Annex 1. – Short Biography  
Annex 2. – Publications

## ANNEX 1. – Short Biography

- Born in Rijeka 1967.
- High school graduation at Centar za kadrove u obrazovanju i kulturi, Rijeka, 1986.
- Undergraduate studies in physics at Faculty of Education, Rijeka; thesis: "Fundamental principles of NH<sub>3</sub> maser", 1995., with thesis advisor dr. Zdravko Lenac
- Teaching Assistant at Faculty of Education, Rijeka from 1996.
- Teaching Expert Associate at Faculty of Arts and Sciences from 2000.
- Lecturer at Faculty of Arts and Sciences from 2007.
- Senior Lecturer at Department of Physics, University of Rijeka, from 2012.

## ANNEX 2. - Publications

### SCIENTIFIC PAPERS (Current Contents)

5. Jusup M., Labinac V., *The physics of metabolic organization*, Journal of Theoretical Biology (submitted)
4. Legović T., Mihelčić G., Geček S. and Labinac V., *Visitor's carrying capacity in a nature protected area: definition, computation method and an application to Telaščica Bay, Croatia*, Environment International (submitted)
3. Labinac V., Jusup M., Legović T., *Stationary points of rigid body kinetic energy and principal axes of rotation*, American Journal of Physics, **81** (10) 2013.
2. Labinac V., Jusup M., Legović T., Špirić Lj., *Network of capacitors in a d.c. circuit*, Journal of International Electrical Engineering Education, **46** (4) 2009.
1. Labinac V., Erceg N., Kotnik-Karuza D., *Magnetic field of a cylindrical coil*, American Journal of Physics, **74** (7) 2006.

### PROFFESIONAL PAPERS

14. Labinac V., Jusup M., Milotić B., Legović T., *Glavne osi i stacionarne točke energije vrtnje krutog tijela*, Knjiga sažetaka VII. Znanstvenog sastanka HFD, Primošten, 2011.
13. Labinac V., Jusup M., Legović T., *Energija vrtnje oko glavnih osi krutog tijela*, Zbornik radova X. Hrvatskog simpozija o nastavi fizike, Primošten, 2011.
12. Labinac V., Jusup M., Legović T., *Vector potential of a light point source near a perfect mirror* (in Croatian), Book of Abstracts from VI. Croatian Physical Society Meeting, Primošten, 2009.
11. Labinac V., Jusup M., Legović T., *Understanding and Elaboration of Method of Images* (in Croatian), poster and paper, Proceedings from IX. Croatian Symposium on Physics Teaching, Primošten, 2009.
10. Labinac V., Milotić B., Pranjić Petrović T., Jelovica Badovinac I., *High-School Physics Competitions organized by Society of Mathematicians and Physicists Rijeka* (in Croatian), poster and paper, Proceedings from IX. Croatian Symposium on Physics Teaching, Primošten, 2009.
9. Iveglja Čorak S., Klobučar N., Karleuša B., Labinac V., *Storm-water disposal from road surfaces into water courses under conditions of restrictions* (in Croatian), Proceedings from IV. Croatian Conference on Waters, (ed. D.Gereš), Croatian Waters, Zagreb, 2007.
8. Labinac V., Špirić Lj., Jusup M., *Application of the Method of Images for Determining Discharge Voltage of Air* (in Croatian), poster and paper, Proceedings from VIII. Croatian Symposium on Physics Teaching, Novi Vinodolski, 2007.
7. Kaliman Z., Labinac V., Pernjak T., Orlić N., Jelovica Badovinac I., *Computer's Hard Disk as Atwood's Machine* (in Croatian), poster and paper, Proceedings from VIII. Croatian Symposium on Physics Teaching, Novi Vinodolski, 2007.
6. Jelovica Badovinac I., Orlić N., Labinac V., Kaliman Z., *Entropy and Interdisciplinarity* (in Croatian), lecture and paper, Proceedings from VIII. Croatian Symposium on Physics Teaching, Novi Vinodolski, 2007.
5. Kaliman Z., Orlić N., Labinac V., *Manifestations of the Exponential Law in a Different Areas of Physics* (in Croatian), poster and paper, Proceedings from VII. Croatian Symposium on Physics Teaching, Šibenik, 2005.
4. Labinac V., Legović T., *Two problems on mysterious bubbles* (in Croatian) Book of Abstracts from IV. Croatian Physical Society Meeting, 2003.
3. Labinac V., Legović T., *Two problems on mysterious bubbles* (in Croatian), interactive PowerPoint presentation, poster and paper, Proceedings from VI. Croatian Symposium on Physics Teaching, Makarska, 2003.
2. Milotić B., Labinac V., Kotnik-Karuza D., Jurdana-Šepić R., *The Constructivist Approach to a Physics Laboratory Teaching* (in Croatian), poster and paper, Book of Abstracts from III. Croatian Physical Society Meeting, Zagreb, 2001.

1. Labinac V., Milotić B., *Java applets in Physics Teaching* (in Croatian), poster and paper, Proceedings from V. Croatian Symposium on Physics Teaching, Makarska, 2001.

## **BOOKS**

4. Jurdana-Šepić R., Labinac V., Žuvić Butorac M., Sušac A. (Eds.), *Frontiers of Physics Education – Selected Contributions*, GIREP – EPEC Conference, Opatija, 2007, Golden Section Society, Rijeka, 2008.

3. Jurdana-Šepić R., Labinac V., Žuvić Butorac M., Sušac A. (Eds.), *Frontiers of Physics Education – Book of Abstracts*, GIREP – EPEC Conference – Opatija 2007, Faculty of Arts and Sciences Rijeka, University of Rijeka, 2007.

2. Labinac V., *Solved Problems in Electrostatics and Magnetostatics* (in Croatian), textbook for physics students, Faculty of Arts and Sciences, University of Rijeka, Rijeka, 2003.

1. Labinac V., *Integral br. 7.245, 3<sup>10</sup>*, contribution to Gradshteyn I. S., Ryzhik I. M., *Table of Integrals, Series and Products*, 6th ed., Academic Press, New York, 2000.

## **A REVIEW OF THEORY AND FORMULAS ( in Croatian, available electronically <http://www.phy.uniri.hr/~vlabinac> )**

5. Labinac V., *Theoretical Physics III*, Department of Physics, University of Rijeka, 2009.

4. Labinac V., *Theoretical Physics IV*, Department of Physics, University of Rijeka, 2010.

3. Labinac V., *Quantum Physics and Structure of Matter I, II*, Department of Physics, Faculty of Arts and Sciences Rijeka, 2005.

2. Labinac V., Milotić B., *Fundamentals of Physics III*, Department of Physics, Faculty of Arts and Sciences Rijeka, 2005.

1. Labinac V., Milotić B., *Fundamentals of Physics IV*, Department of Physics, Faculty of Arts and Sciences Rijeka, 2005.

## **TEACHING**

Lectures, recitations, laboratories given in academic year 2009./2010.:

1. Computer Science Practicum (lectures and recitations, 2008. -)
2. Waves and Optics (recitations, 2008. -)
3. Mathematical Methods of Physics I, (lectures and recitations, 2006. -)
4. Mathematical Methods of Physics II, (recitations, 2006. -)
5. Theoretical Physics III (recitations, 2006. -)
6. Theoretical Physics IV (recitations, 2006. -)
7. Practicum in Physics Teaching II (laboratory, 2006. -)
8. Computers in Physics Teaching (seminar, 2010. -)

Recitations, lectures, seminars and laboratories formerly given at Faculty of Arts and Sciences:

1. Physics Seminar (2002.)
2. Physics Seminar (2006.g.)
3. Mathematical Methods in Physics 1 (recitations, 2006.)
4. Mathematical Methods in Physics 2 (recitations, 2006.)
5. Electrodynamics (recitations, 1996.-2005.)

6. Quantum Physics and Structure of Matter 1 (recitations, 2000.-2004.)
7. Quantum Physics and Structure of Matter 2 (recitations, 2000.-2004.)
8. Experiments in Teaching Physics 2 (laboratory, 2001.-2006.)
9. Fundamentals of Physics 1 (recitations, 1996.-2000.)
10. Fundamentals of Physics 2 (recitations, 1996.-2000.)
11. Modern Physics (recitations, 2005.)
12. Fundamentals of Physics 3 (recitations, 1999.-2005.)
13. Fundamentals of Physics 4 (recitations, 1998.-2006.)
14. Fundamentals of Physics 1 (lectures for Computer Science students, 2008.)

## **PROFESSIONAL WORK**

9. XII. Croatian Symposium on Physics Teaching, Primošten, 2015.
8. XI. Croatian Symposium on Physics Teaching, Primošten, 2013.
7. X. Croatian Symposium on Physics Teaching, Primošten, 2011.
6. IX. Croatian Symposium on Physics Teaching, Primošten, 2009.
5. VIII. Croatian Symposium on Physics Teaching, Novi Vinodolski, 2007.
4. VI. Croatian Symposium on Physics Teaching, Makarska, 2003.
3. V. Croatian Symposium on Physics Teaching, Makarska, 2001.
2. Educational physics project: Hokus-Pokus Fizika: at (<http://eskola.hfd.hr/>)
1. Member of the Commission for High-School Physics Competitions organized by the Society of Mathematicians and Physicists Rijeka, 2001.-

## **INVITED LECTURES**

1. Basic Ideas of the Theory of Superconductivity (in Croatian)
  - 2001. – Elementary and high-school regional competition in physics, on the occasion of
  - 2001. - Society of Mathematicians and Physicists Rijeka
  - 2003. - High-school Andrija Mohorovičić on the occasion of Science Festival in Rijeka

## **MEMBERSHIPS**

Society of Mathematicians and Physicists Rijeka

American Association of Physics Teachers