

**INFORMATION on the RESEARCHER**

<b>Name</b>	Diana	<b>Surname</b>	Mance (Bojić)
<b>Address</b>	Ulica Radmile Matejcic 2, 51000 Rijeka, Croatia		
<b>Date of birth</b>		<b>Gender</b>	Female
<b>Nationality</b>	Croatian		

**INFORMATION on the LEVEL of EDUCATION**

<b>Date of diploma</b> which gives access to doctoral studies in the country in which it was obtained	March 2004	<b>Date of doctoral degree</b>	May 2014
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**INFORMATION on the RESEARCH EXPERIENCES**

<b>Research experiences (full-time equivalent) - number of years</b>	11
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**INFORMATION on the PRESENT WORKING POSITION**

<b>Institution</b>	University of Rijeka		
<b>Department</b>	Physics department		
<b>Address</b>	Ulica Radmile Matejcic		
<b>City Code, City</b>	51000 Rijeka	<b>State</b>	Croatia
<b>Telephone</b>			
<b>E-mail</b>	diana.mance@uniri.hr		

**WORK EXPERIENCE**

Dates (from - to)	October 2004 - October 2015		
Name and address of employer	School of Medicine, Physics department, University of Rijeka		
Type of business or sector	Education and science		
Main activities and responsibilities	Assisting in teaching, research and measurement in stable isotope laboratory, field work (sampling)		

**EDUCATION**

Date	March 2004	May 2014
Place of education	Rijeka, Croatia	Zagreb, Croatia
Name and type of organization providing education	Faculty of Arts and Sciences, Physic department, University of Rijeka, Croatia	Faculty of Science, Physics Department, University of Zagreb
Title or qualification awarded	Mathematics and Physics Teacher	PhD

**TRAINING IN BIOGEOCHEMISTRY**

Year	2006
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Place of training	Bremen, Germany
Name and type of organization providing training	Thermo Electron corporation
Principal subjects/Occupational skills covered	Isotope Ratio Mass Spectrometry, Operator training: Delta Plus Advantage/XP, Gas Bench II (water samples: $\delta^{18}\text{O}$ and $\delta^2\text{H}$ analysis; carbonate samples preparation and analysis $\delta^{18}\text{O}$ and $\delta^{13}\text{C}$ ), Dual Inlet, Equilibration Unit (HDO)
Year	2006
Place of training	Jena, Germany
Name and type of organization providing training	Max-Planck Institute for Biogeochemistry, IsoLab
Principal subjects/Occupational skills covered	Handling and preparation of liquid samples for High Temperature Conversion Elemental Analyser (TC/EA system: $\delta^{18}\text{O}$ and $\delta^2\text{H}$ analysis) and bulk samples ( $\delta^{13}\text{C}$ and $\delta^{15}\text{N}$ analysis). Handling and preparation of dusty carbonate samples and DIC samples for measurement on Gas Bench II.  Mass spectrometric system operation: Delta C, Delta Plus XP, Gas Bench II and TC/EA (carbon reduction method)
Year	2011
Place of training	Plitvice Lake National Park, Croatia
Name and type of organization providing training	Institute Ruđer Bošković, Laboratory for Measurements of Low-level Radioactivity (organized within the FP7 project no. 245843)
Principal subjects/Occupational skills covered	Monitoring of water and lake sediment quality in natural environment

#### SCHOLARSHIPS AND FELLOWSHIPS

Year	2001/02	2002	2006
Organization providing scholarship/fellowship	Rector of University of Rijeka	DAAD	IAEA

#### AWARDED FINANCIAL SUPPORTS

Year	2012	2013
Name and type of organization providing support	European Geological Union	Croatian Academy of Arts and Science
Title or qualification awarded	Young Scientist Travel Award	Support for short term project

#### SKILLS AND COMPETENCIES

<b>MOTHER TONGUE:</b>	Croatian, native speaker			
<b>OTHER LANGUAGE(S):</b>		<b>Understanding</b>	<b>Speaking</b>	<b>Writing</b>
	<b>English</b>	excellent	excellent	excellent
	<b>German</b>	basic	basic	-
	<b>Italian</b>	basic	basic	basic

<b>TECHNICAL SKILLS AND COMPETENCIES:</b>	<ul style="list-style-type: none"> <li>- work with absorption spectrometer: Los Gatos Liquid-Water Isotope Analyzer: <math>\delta^{18}\text{O}</math> and <math>\delta^2\text{H}</math> in water samples</li> <li>- maintaining and operating isotope ratio mass spectrometer: Thermo Finnigan Delta<sup>PLUS</sup> XP</li> <li>- usage of IRMS associated peripheral units:</li> <li>- Gas Bench II for analysis of <math>\delta^{18}\text{O}</math> and <math>\delta^2\text{H}</math> in liquid water, and <math>\delta^{18}\text{O}</math> and <math>\delta^{13}\text{C}</math> for dusty carbonate samples and DIC</li> <li>- HDO equilibration unit for <math>\delta^{18}\text{O}</math> and <math>\delta^2\text{H}</math> in water samples</li> <li>- work with quadrupole mass spectrometer and plasma reactor</li> </ul>
<b>COMPUTER SKILLS:</b>	<ul style="list-style-type: none"> <li>- practical knowledge of ISODAT and LIMS</li> <li>- practical knowledge of mathematical and statistical analysis programme packages: Origin, Statistica, R, E-Views, Matlab</li> <li>- working knowledge of C++</li> <li>- knowledge of standard programme packages: Microsoft Word, Excel, Adobe Photoshop, Internet Explorer, Outlook, FrontPage</li> </ul>
<b>ORGANISATIONAL SKILLS AND COMPETENCIES:</b>	<ul style="list-style-type: none"> <li>- organisational skills gained through work in student organization IAESTE (1998-2004) and short-term project funded by Croatian Academy of Arts and Science</li> </ul>
<b>SOCIAL SKILLS AND COMPETENCIES:</b>	<ul style="list-style-type: none"> <li>- communicative, open-minded, willing to accept new ideas, skills and knowledge, team work</li> <li>- experience in lectures and presentations, teamwork and mentor in the work with students</li> </ul>

### LIST OF SELECTED PUBLICATIONS

#### ARTICLES

**MANCE D., HUNJAK T., LENAC D., RUBINIĆ J., ROLLER-LUTZ Z., 2014.** Stable isotope analysis of the karst hydrological systems in the Bay of Kvarner (Croatia). Applied Radiation and Isotopes 90, 23-34.

OZYURT N.N., LUTZ H.O, HUNJAK T., **MANCE D.**, ROLLER-LUTZ Z., 2014. Characterization of the Gacka River basin karst aquifer (Croatia): Hydrochemistry, stable isotopes and tritium-based mean residence times. *Science of The Total Environment* 487, 245-254.

**MANCE D.**, LENAC D., HUNJAK T., ROLLER-LUTZ Z., RUBINIĆ J., 2013. Monitoring of hydrogen and oxygen stable isotope changes for the purpose of water protection: the case of Rjeka town springs, *Waters in sensitive & protected areas*, Nakić, Zoran ; Rubinić, Josip (Ed.), Zagreb, Croatian water pollution control society, 175-178.

ROLLER-LUTZ, Z.; **MANCE, D.**; HUNJAK, T.; LUTZ, H.O., 2013. On Isotopic Altitude Effect of Precipitation at the Northern Adriatic (Croatia), *Isotopes in Hydrology, Marine Ecosystems and Climate Change Studies*, IAEA, 99-105.

MANDIĆ M., **BOJIĆ D.**, ROLLER-LUTZ Z., LUTZ H.O., KRAJCAR BRONIĆ I., 2008. Note on the spring region of Gacka River (Croatia). *Isotopes in Environmental and Health Studies* 44(2), 201-208.

ROLLER-LUTZ, Z.; MANDIĆ, M.; **BOJIĆ, D.**; LUTZ, H. O.; KAPELJ, S., 2007. Stable isotopes in Gacka river catchment: Installation of a laboratory for stable isotope analysis in Croatia, *Advances in Isotope Hydrology and its Role in Sustainable Water Resources Management*, IAEA, 625-631.

KERSTEN H., THIEME G., FROHLICH M., **BOJIĆ D.**, TUNG D.H., QUAAS M., WULFF H., HIPPLER R., 2005. Complex (dusty) plasmas: Examples for applications and observation of magnetron-induced phenomena. *Pure and applied Chemistry* 77(2), 415-428.

KERSTEN H., WIESE R., THIEME G., FROHLICH M., KOPITOV A., **BOJIĆ D.**, SCHOLZE F., NEUMANN H., QUAAS M., WULFF H., HIPPLER R., 2003. Examples for application and diagnostics in plasma-powder interaction, *New Journal of Physics* 5, 93.1-93.15.

## CONFERENCE ABSTRACTS

**MANCE, D.**, LENAC, D., HUNJAK, T., LUTZ, H.O., ROLLER-LUTZ, Z., RUBINIĆ, J., Time series analysis of the stable isotope composition in the catchment of karst springs in the Kvarner bay (Croatia), EGU general assembly, Vienna, Austria, 2012.

ROLLER-LUTZ Z., HUNJAK T., LUTZ H.O., **MANCE D.**, OZYURT N., Environmental tracer application study at a Dinaric Mountains karst water system, the Gacka River Basin (Croatia), Congress Program and Abstracts IAH 2012, 2012.

HUNJAK T., **MANCE D.**, LUTZ H.O., ROLLER-LUTZ Z., Delta 18O Spatial Distribution of Precipitation in Croatia, The 8th International Conference on Applications of Stable Isotope Techniques to Ecological Studies, Brest, France, 2012.

**BOJIĆ D.**, MANDIĆ M., ROLLER-LUTZ Z., LUTZ H.O., KAPELJ S., HORVATINČIĆ N., KRAJCAR I.B., SIRONIĆ A., Isotopic composition of spring waters from Croatian karst regions: Gacka River area. *Proceedings of the European Society for Isotope Research ESIR IX*, Cluj-Napoca, Romania, 2007.