

LUCIJA RAKOCEVIC
Rimski trg 46, 81000 Podgorica, Montenegro
+382 20 482 240, +382 67 220 527
lucija081@gmail.com

EDUCATION

University of Illinois at Urbana-Champaign, Urbana, IL, USA **2009**
M.S. in Mechanical Science and Engineering
Thesis: "Probing the intertube water diffusion in long vertically aligned carbon nanotube films using diffusion-weighted MRI"

University of Arkansas, Fayetteville, AR, USA **2007**
B.S. Honors in Physics and Computer Engineering
Majors: Physics and Computer Engineering
Minor: Mathematics
Honors Thesis: "Simulating Shor's quantum factoring algorithm using Java language"

WORK EXPERIENCE

Unit for Renewable Energy Sources, Department of Energy, Ministry of Economy, Government of Montenegro, Podgorica, Montenegro **2009-Present**
Adviser
Creating stable and clear framework for development of renewable energy sources in Montenegro, by creating new and improved procedures and harmonizing Montenegro's regulations with relevant EU directives while following national strategic goals. (www.oie-cg.me)

The Center of Advanced Materials for the Purification of Water with Systems, University of Illinois at Urbana-Champaign, Urbana, IL, USA **2007-2009**
Research Assistant
Studying water diffusion around carbon nanotubes using diffusion-weighted MRI techniques in Dr. John Georgiadis research group.

Computing Center, University of Arkansas, Fayetteville, AR, USA **2005-2007**
Computer Assistant
Interacting with computer lab users and helping them solve software and hardware difficulties while finishing their tasks successfully.

Enhanced Learning Center, University of Arkansas, Fayetteville, AR, USA **2003-2004**
Mathematics Tutor
Working with students one-on-one and helping them understand mathematics concepts covered during their course work in the way most suitable for each person.

AWARDS AND SCHOLARSHIPS

- Leadership Scholarship, University of Arkansas **2006-2007**
- Honors Research Grant Fall, University of Arkansas **2006**
- Engineering College Scholarship, University of Arkansas **2005-2006**
- Dean's Honor Roll at University of Arkansas **2003-2004**

RESEARCH EXPERIENCE

The Center of Advanced Materials for the Purification of Water with Systems, University of Illinois at Urbana-Champaign, Urbana, IL, USA **2007-2009**
Research Assistant
Water diffusion around carbon nanotubes using diffusion-weighted MRI techniques. Dr. John

Georgiadis, adviser.

Lawrence Livermore National Lab, Livermore, CA, USA

Visiting Student **2008**
Growth and characterization of long vertically aligned carbon nanotube films. Collaboration with Dr. Olgica Bakajin.

Arkansas Center for Space and Planetary Sciences, University of Arkansas, Fayetteville, AR, USA

Undergraduate Research Experience **2005**
Digitizing remotely-sensed imagery from 60's-90's from five different platforms (SEASAT, SkyLab, SIR-A etc). Worked with CAST, Dr. John Dixon and University of Arkansas Libraries.

SEMINARS AND CONFERENCE PRESENTATIONS

Creating an ambient for sustainable development of Montenegro through development of RES, Pljevlja, Montenegro

Oral Presentation **December 24, 2010**

Inclusion of wind farms into the environment, with special focus on bird protection, Podgorica, Montenegro

Organization and presentation **December 17, 2010**

Wind farms in Montenegro

Energy efficiency in local government, Kolasin, Montenegro

Oral presentation **November 11, 2010**

Responsibilities of local governments regarding renewable energy sources in relation to the Energy Law

Regional conference "Renewable energy sources and their use", Podgorica, Montenegro

Presentation **October 27, 2010**

Creating an ambient for sustainable development of Montenegro through use of renewable energy sources

Seminar Development of small hydro power plants in Montenegro – current experiences and future steps, Kolasin, Montenegro

Organization and presentation **October 13, 2010**

Overview of activities for creating a positive ambient for development of small hydro power plants in Montenegro

Materials Research Society Meeting, Symposium Q, San Francisco, CA, USA

Oral Presentation **April 14, 2009**

Probing the Interstitial Space of Tall Vertically Aligned CNT Films via q-space MRI.

WaterCAMPWS Weekly Seminar Series, University of Illinois at Urbana-Champaign, Urbana, IL, USA

Seminar Speaker **September 26, 2008**

Aligned Carbon Nanotube Membranes: Progress Towards Fabricating MRI Phantoms

The Lunar and Planetary Science Conference, Houston, TX

Poster Presenter **March 2006**

Digitization and Web Access of a Historic Collection of Remotely-Sensed Imagery.

PUBLICATIONS AND PAPERS

- Karampinos, D. C., K. F. King, L. Rakocevic, and J. G. Georgiadis, "Myofiber and Microvasculature Architecture of Human Calf Muscle Alteration in Passive Dorsiflexion," International Society for Magnetic Resonance in Medicine, 16th Scientific Meeting and Exhibition, Toronto, Canada, 2-9 May 2008.
- Agran, J., C. L. Johnson, D. Chen, L. Rakocevic, H. Sharma, B. P. Sutton, D. C. Karampinos, J. G. Georgiadis, and W. C. Olivero, "MRI Elastography: Design and feasibility testing of in vivo meningioma characterization using Gel Agar brain phantoms," Congress of Neurological Surgeons, Orlando, 20-25 Sept., 2008.

LANGUAGES

- **Montenegrin** – native language
- **English**– speak fluently and read/write with high proficiency
- **French** – speak, read, and write with basic competence.

MEMBERSHIPS

- Financial Chair, 2008-2009, Student Leadership Committee, WaterCAMPWS, UIUC
- Engineers Without Borders, UIUC chapter
- Graduate women in Mechanical Engineering, UIUC
- Women in Engineering, University of Arkansas