

**Russia/Russie**

**(302)**

**UNITWIN/UNESCO Chairs Programme**

**Progress Report**

**Period of activity: 2007**

**UNESCO Chair in Ecologically Clean Engineering**

**Report established by:** Professor M.G. Berengarten, UNESCO Chairholder, Moscow State University of Environmental Engineering

## **I. Activities**

### **1. Academic activities**

#### ***Education***

During the 2007 activity year, the UNESCO Chair offered courses on Theoretical bases of renewable energy sources; Non-traditional power engineering and Technologies of environmental protection.

Target group: undergraduate and postgraduate students at Moscow State University.

***Research:*** Technologies of renewable energy sources; Ecological engineering; Energy saving technologies.

### **2. Conferences/Meetings**

9<sup>th</sup> International Symposium of Young Researchers, Post-Graduate Students in Engineering and Technological Research for Sustainable Development

Date and Place: November 2007, Moscow, Russia.

Ecological Problems and Exploitation of Power Objects.

Date and Place: June 13-15 2007, Sevastopol, Ukraine.

Engineering and Technological Research for Sustainable Development

Date and Place: 21-23 November 2007, Zvenigorod, Russia.

### **3. Publications**

#### **Books**

Title: *Corrosion and defense of building construction*

Authors: Ogrel L.Ju., Volodchenko A.N., Shevtsova R.G.

Year: 2007

Pages: 156

Title: *Lectures on chemistry*

Authors: Pavlenko V., Kluchnikova N., Denisova L., Ogrel L., Volodchenko A.

Year: 2007

Pages: 196

#### **Journal Articles**

Title: *Research of solar radiation concentrated flow influence on the materials using in helio engineering power*

Journal Title: *Magazine of Lithuania Academy of Applied Science*

Author: Berengarten M., Mendeleev, V., Skovorod'ko S., Shpilrain E., Vainshtein S., Shcheglov V.

Number 4, 2007, pp.67-72.

#### **4. Partnerships**

UNESCO Regional Bureau for Science and Culture in Europe (BRESCE)

International Center for Mechanical Sciences, Udine, Italy

Federal Agency on Education, Russian Federation

Federal Agency on Science and Innovation, Russian Federation

Ministry of Education and Science, Russian Federation

Ministry of Energy of Russian Federation

Saint-Petersburg State Technology University, Russian Federation

Azerbaijan Technical University, Baku, Azerbaijan

Belarusian State Polytechnic Academy, Republic of Belarus

Cracow University of Technology, Poland

Donetsk National Technical University, Ukraine

#### **Impact**

The UNESCO Chair in Ecologically Clean Engineering promotes global energy safety and the development of ecologically clean sources of energy. The Chair organizes research project on renewable energy sources and technologies of environmental protection. The Chair coordinates seminars for postgraduate students in the fields of ecological engineering.

#### **Forthcoming activities**

The Chair will organize training sessions on new technological methods of environmental engineering. A program of collaboration with other European universities will develop through the European Network on Education and Training (EURONETRES) and its research projects on education and training in renewable energy resources.