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An Integrated System for the Complex Environmental Research and Monitoring in the Danube River Area, REXDAN



An Integrated System for the Complex Environmental Research and Monitoring
in the Danube River Area, REXDAN

Contract no. 309/ 10.07.2020, SMIS Code 2014+: 127065

Project co-financed by the European Regional Development Fund through the
Competitiveness Operational Programme 2014-2020 (COP)

Priority axis: 1. Research, technological development and innovation (RTDI) to support
economic competitiveness and business development;

Investment priority: IP 1a: Strengthening research and innovation (R&I) and infrastructure and
building capabilities in order to develop R&I excellence, as well as promoting centers of
expertise, especially those of European interest;

Specific objective: SO1.1. Increasing scientific capacity in the fields of smart specialization and
health;

Action: 1.1.1 Large R&I infrastructures;

Area of intervention - 058 : Research and innovation infrastructures (public)

Project implementation period: 10. 07. 2020 - 31. 12. 2023

Beneficiary: "Dunarea de Jos" University of Galati,
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REXDAN RESEARCH INFRASTRUCTURE PRESENTED AT BOKU UNIVERSITY, AUSTRIA

On March 9, 2023, a delegation of "Dunarea de Jos" University in Galati (DJUG) made up of Prof. Dr. Eng. Puiu Lucian Georgescu, Rector, Prof. Dr. Eng. Eugen Rusu, director of the Doctoral Schools within DJUG, prof. Dr. Cătălina Iticescu, director of the Rexdan Research Infrastructure and Assist. Dr. Ec. Stefan Petrea and Dr. Mădălina Călmuc, members of Rexdan Research Center visited BOKU University, Austria, in order to establish relevant partnerships for the common research fields of the 2 institutions.

The BOKU University delegation was made up of Prof. Dr. Eva Schulev-Steindl, Rector, Prof. Dr. Christian Obinger, Vice-Rector, Prof. Dr. Helmut Habersack, Director of the Institute of Hydraulic Engineering and River Research, Dr. Günter Langergraber, director of the Department for Water, Atmosphere and Environment, Prof. Dr. Thomas Hein, Director of the Institute of Hydrobiology and Management of Aquatic Ecosystems and Dr. Margarita Calderón-Peter, director of the Office of International Relations at BOKU University.

The presentations of the Institute of Hydraulic Engineering and River Research (IWA) and the Institute of Hydrobiology and Management of Aquatic Ecosystems (IHG) made by the members of the Austrian delegation, harmoniously combined with those of DJUG and of the Rexdan Research Infrastructure made by the members of DJUG delegation, highlighted the common interests of the 2 institutions and the real possibility for them to collaborate in both the research and didactic activities in the future.



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REXDAN RESEARCH CENTRE VISITED BY THE AMBASSADOR OF FRANCE IN ROMANIA

As a recognition of the effort made to strengthen university, scientific, and cultural cooperation between France and Romania, the Rector of "Dunarea de Jos" University of Galati, prof. dr. eng. Puiu - Lucian Georgescu, was awarded the medal "Ordre des Palmes Académiques" in the rank of Officer by her Excellency, Mrs. Laurence Auer, Ambassador of the French Republic in Romania on April 3, 2023.

The ceremony, organized at the University headquarters, was followed by her Excellency's visit to the Central University Library and to the REXDAN Research Centre. The presentation of the laboratories and platforms within in the REXDAN Research Centre, completed by the presentation of the REXDAN Research Vessel, under construction at ATG Giurgiu Shipyard, opened new opportunities for developing partnerships and for joint research projects.



REXDAN RESEARCH CENTER PRESENTED TO THE DELEGATES OF THAI NGUYEN UNIVERSITY OF EDUCATION, VIETNAM

On the basis of the partnership signed by „Dunarea de Jos” University in Galati (DJUG) and Thai Nguyen University of Education (TNUE) Vietnam in 2021, the TNUE delegation, made up of Dr. Bui Duc Nguyen, TNUE Vice-Rector, Dr. Nguyen Thi Hong Minh, Dean of the Faculty of Foreign Languages Education, Prof. Dr. Ngo Thi Thanh Quy, Dean of the Faculty of Linguistics and Literature, Prof. Dr. Vu Thi Hong Hanh, Director of the Finance and Planning Department and Dr. Cao Tien Khoa, Director of the Department of Resource and Facilities Management visited, between April 20-25, 2023, a series of objectives relevant for the didactic and research activities carried out within DJUG.

The REXDAN Research Infrastructure (RI) represented a point of interest for the TNUE delegates, their visit to the laboratories of the REXDAN Research Center and the presentation of the REXDAN Research Vessel, providing a clear image of the activities carried out within the REXDAN RI and opening new research opportunities in the field of environmental protection.



TRAINING FOR DEVELOPING PROFESSIONAL COMPETENCES AND FOR OPTIMIZING RESEARCH

The members of the spectrometry laboratory within the Rexdan RC participated, between May 24 - 25, 2023, in the workshop "The Bruker TXRF Spectrometer a high-performance, economical and versatile alternative to the classic AA, ICP-OES and ICP-MS" organized, in Bucharest, by specialists of Bruker Company, Germany.

The presentation "Elemental Analysis – pg sample amount and ppb sensitivity? How TXRF Spectroscopy can help" made by Dr. Andreas Wittkopp, Business Manager within MicroXRF & TXRF for the EMEA Region Bruker Berlin, Germany, was complemented by the hands-on session moderated by Dr. Hagen Stosnach, TXRF Senior Application Scientist during which the representatives of Rexdan RC were able to learn relevant aspects regarding the optimized exploitation of the Bruker TXRF Spectrometer available in the spectrometry laboratory for complex analyzes of the targeted samples. The event included another practical section in which a series of samples brought by the participants were analyzed.

The presence of the members of the spectrometry laboratory within the Rexdan RC at this workshop is an element which will ensure the optimal exploitation of the specific equipment for diversifying the types of analyses and for improving the research results carried out in the Rexdan RI.

The workshop "The Bruker TXRF Spectrometer a high-performance, economical and versatile alternative to the classic AA, ICP-OES and ICP-MS" also represented a great opportunity for promoting the Rexdan RI to potential partners.



FINAL TESTS BEFORE BRINGING THE *REXDAN* RESERACH VESSEL HOME

Built at ATG Giurgiu Naval Shipyard, the research vessel *REXDAN* has completed the last stages of its technical testing and is due to arrive in the port of Galați in July.

In the following months, the equipment provided for the vessel laboratories will be installed and the corresponding technical tests will be carried out so that the activity planned to be carried out on the vessel will support and complement the one carried out in the *REXDAN* Research Center.



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GALATI



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”Dunărea de Jos” University of Galați

June 2023

The content of this material does not necessarily represent the official position of the European Union or of the Government of Romania.

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