



ÓBUDA UNIVERSITY

REJTŐ SÁNDOR FACULTY OF LIGHT INDUSTRY
AND ENVIRONMENTAL ENGINEERING

Rejtő Sándor

Faculty of Light Industry and

Environmental Engineering (RKK)

2024



REJTŐ SÁNDOR FACULTY OF LIGHT INDUSTRY AND ENVIRONMENTAL ENGINEERING (RKK)

The Rejtő Sándor Faculty of Light Industry and Environmental Engineering (RKK) at Óbuda University is a leading institution in Hungary's light industry higher education, delivering outstanding educational and research performance for 52 years. The faculty aims for its graduates to make our environment and everyday objects more aesthetic, better, and safer. Aligned with the strategic directives of the model-changed Óbuda University, the faculty boasts high-level R&D&I activities responding to today's challenges. This brochure serves to summarize and provide an excerpted presentation of the faculty's achievements in 2024.

FINANCIALS

- Total revenue > 297.8 m HUF
- R&D&I revenue > 17.8 m HUF
- Research revenue: > 6.6 m HUF
- Grant revenue: 5.8 m HUF
- Corporate commission revenue: 5.5 m HUF

HUMAN RESOURCES

- Total employees: 42
- Researchers with PhD or DLA: 17
- University Professor: 1
- PhD students: 2
- Educational support: 5

SCIENTIFIC OUTPUT

- Total Publications: 130
- Journal Articles: 41
- English Journal Articles: 3
- Scimago Q1 Articles: 1
- Scimago Q2 Articles: 2
- Conference Papers: 11
- Creative Works: 21

FEATURED CONFERENCES

- [15. ICEEE 2024](#)
International Annual Conference on Global Environmental Development & Sustainability: Research, Engineering & Management
- [Project Conference 2024](#)
Hungarian and foreign models in project-based education
- [VI. Interdisciplinary Conference](#)
on the social and economic situation of the Hungarians in the Carpathian Basin
- [Rejtő Conference 2024](#)

KTI

Environmental Engineering and Natural Sciences Institute

- Total Employees: 11
- Associate Professors: 3
- Senior Lecturers: 3
- Teachers: 2
- Assistant Lecturer: 1
- Prof. Emeritus: 1
- Educational Support: 2

TTI

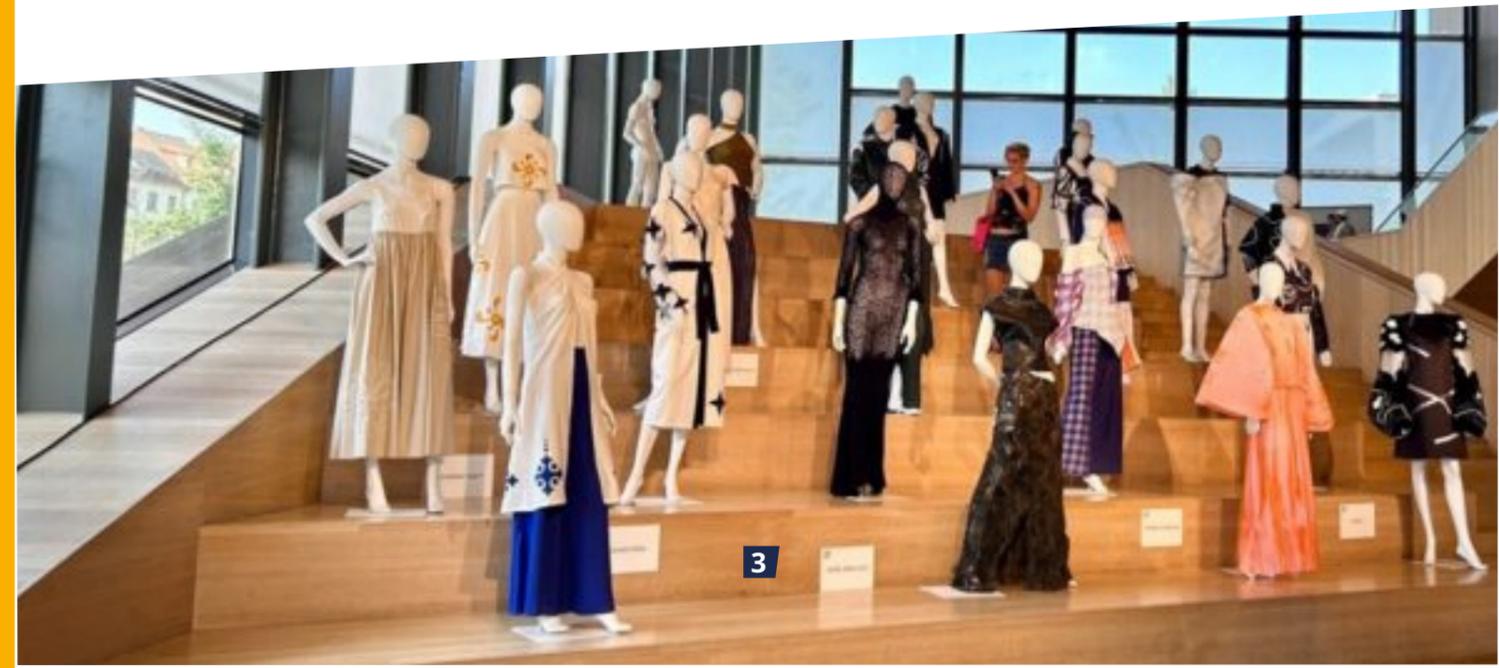
Product Design Institute

- Total Employees: 12
- Professor: 1
- Associate Professors: 3
- Senior Lecturers: 3
- Prof. Emerita: 2
- Teachers: 3
- Educational Support: 2

MKI

Media Technology and Light Industry Institute

- Total Employees: 14
- Associate Professors: 4
- Senior Lecturers: 2
- Teacher: 6
- Assistant Lecturer: 1
- Educational Support: 1



ENVIRONMENTAL ENGINEERING AND NATURAL SCIENCES INSTITUTE



HIGHLIGHTED RESEARCH AND PROJECTS IN 2024

- Interreg Central Europe – CoFarm4Cities
Partner: Municipality of District III of Budapest, Óbuda-Békásmegyer
Duration: 2023-2025
- Climate Awareness Campaign "Borrowed Air"
Partner: KSZGYSZ, Ministry of Energy
Duration: Until 2025
- Environmental State Assessment Óbuda-Békásmegyer
Partner: Municipality of District III of Budapest, Óbuda-Békásmegyer
Ongoing since 2014
- KEHOP-1.2.1 Grant – Development of local climate strategies and promotion of climate-conscious education



MAJOR CONFERENCES AND PROFESSIONAL EVENTS IN 2024

- [Project Conference](#)
Participants: 50-60 attendees from Hungary and abroad.
- [15th ICEEE \(2024\) International Annual Conference on "Global Environmental Development & Sustainability: Research, Engineering & Management"](#)
Participants: 80-100 attendees from over 10 countries.
- International Symposium on Biosphere & Environmental Safety
Participants: 80-100 attendees from over 10 countries.
- Summer Field Project with Students
Location: Balaton Highlands, Nitrokémia Zrt. Sites
Participants: 15 students.
- [Environmental Engineering Professional Day](#)
Location: ÓE RKK Schmalz Hall.
Date: May 8, 2024.

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KEY PUBLICATIONS IN 2024

Chiral Selectivities of Permethylated α -, β -, and γ -Cyclodextrins Containing Gas Chromatographic Stationary Phases towards Ibuprofen and Its Derivatives

Juvancz, Z.; Bodane-Kendrovics, R.; Agoston, C.; Czegledi, B. Kaleta, Z.; Jicsinszky, L.; Riszter, G.
INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES 25 : 14 Paper: 7802 , 11 p. (2024)

Chiral separation of conazole pesticides using supercritical fluid chromatography

Hunyadi Csaba, Szemán Julianna, Juvancz Zoltán, Mörtl Mária, Székács András, Kaleta Zoltán
INTERNATIONAL JOURNAL OF ENVIRONMENTAL ANALYTICAL CHEMISTRY 104: 17 pp. 5012-5022., 11 p. (2024)

MISSION STATEMENT

The mission of the institute is to train professionals who are capable of: reducing and eliminating environmental harm and damage, rationally using natural resources, developing low-waste applications and independently operating them, developing new technologies, and most importantly: having comprehensive ecological knowledge and perspective.



PROFESSIONAL RECOGNITIONS

- Dr. Rita Bodáné Kendrovics, Vice Dean of the Rejtő Faculty, was **awarded** the Hungarian Order of Merit, Knight's Cross on the occasion of World Environment Day. She received the honor for her outstanding work over more than three decades in municipal integrated water and environmental management, education, research, publications, and contributions to professional organizations.
- Dr. Csaba Gábor Ágoston **received** the "For Our Environment" Commemorative Plaque for his significant contributions, particularly in environmental education and nurturing future generations.





2024 RESULTS

- Membership in CUMULUS Association Óbuda University joins the [CUMULUS Association](#), the world's most significant design and art education professional organization.
- [Korond 2.0 Project at the Budapest Central European Fashion Week](#)
- [Student works were showcased at the 360 Design Budapest Exhibition](#)
- Dr. Edit Csanák DLA and Dóra Papp-Vid DLA submit their habilitation applications.
- Our instructors' works are exhibited [IX th International Textile Triennial](#) in Szombathely and in the [ArtMill](#) in Szentendre.



TENDER EVENTS IN 2024

- The institute successfully implemented the NTP-HHTDK 23-0060 grant, within which [several events](#) were realized, including:
 - [KOROND 2.0 Fashion Show](#)
 - [KOROND 2.0 c. Exhibition](#)
 - A fashion show created with unique music and choreography, which was presented at the [Innovatext Zrt. Textile Forum for Sustainability Jubilee Conference](#)

FEATURED CORPORATE PROJECTS

- The institute successfully implemented the [ReLindström: Recycling Fashion Challenge project](#), in corporate cooperation with Lindström Kft. Highlights of the project:
 - [Design Jury at ÓE MtÜ 2024 Series](#)
 - [Lindström30 Gala Fashion Show](#) and [award ceremony](#).
- The institute participates in the sustainability project events jointly organized by the RKÓEA Foundation and Cseriti Nonprofit Ltd., managed by RKK:
 - "Cseriti Styling Project" A project task announced in collaboration with RKÓEA and Cseriti Nonprofit Ltd., results showcased in a fashion show during a career orientation event. [Event Coverage](#)
 - [The institute director participates in a roundtable discussion organized by RKÓEA and Cseriti Nonprofit Kft. at the RKK](#)

SELECTED PUBLICATIONS

AI-SUPPORTED FASHION DESIGNING: EXPLORING SUSTAINABILITY ASPECTS

Csanák Edit

In: Zvonko, Dragčević *Book of Proceedings (International textile, clothing & design conference)* ISSN 2718-3262 University of Zagreb, Faculty of Textile Technology (2024) pp. 277-282. , 6 p.

KOMBUCHA - EGY ÚJ LEHETŐSÉG A FENNTARTHATÓ TEXTILGYÁRTÁSBAN

Oroszlány Gabriella, Borka Zsolt, Halász Marianna

TUDOMÁNYOS MŰSZAKI ÉS MŰVÉSZETI KÖZLEMÉNYEK 2024 pp. 213-222. , 10 p. (2024)

Influence of Artistic Styles on Contemporary Design

Róbert, Németh; Éva, Hottó; Márta, Kisfaludy

In: Edit, Csanák (szerk.) *IJCELIT 2023. Book of Proceedings of the 9th International Joint Conference on Environmental and Light Industry Technologies Budapest, Magyarország: Óbudai Egyetem Rejtő Sándor Könyvgyártási és Környezetmérnöki Kar* (2024) pp. 74-84. , 11 p.

Women's Fashion in Hungary in the Early 20th Century, Reflected in Fashion magazines

Péterné, Korona; Virág, Némethy

In: Edit, Csanák (szerk.) *IJCELIT 2023. Book of Proceedings of the 9th International Joint Conference on Environmental and Light Industry Technologies Budapest, Magyarország: Óbudai Egyetem Rejtő Sándor Könyvgyártási és Környezetmérnöki Kar* (2024) pp. 74-84. , 11 p.

REJTŐ SÁNDOR ÉLETE, MUNKÁSSÁGA ÉS KORA

Némethné Erdődi Katalin, Nagyné Szabó Orsolya, Koleszár András, Víg András

TUDOMÁNYOS MŰSZAKI ÉS MŰVÉSZETI KÖZLEMÉNYEK 2024 pp. 133-141., 9 p. (2024)

2024: THE YEAR OF FASHION SHOWS

In 2024, student collections were showcased in four fashion shows:

- May: [KOROND 2.0](#) - OE Aula; dynamic choreography, professional DJ
- September: [KOROND 2.0 - House of Traditions](#); unique choreography and music
- November: [ReDesign Project](#) - Ethnographic Museum; [Gala Fashion Show](#);
- December: [Cseriti Project](#) - OE Aula; energetic choreography, professional DJ.



MEDIA TECHNOLOGY AND LIGHT INDUSTRY INSTITUTE



2024 RESULTS

- Conference, professional day organized by the institute: [Cs+P Conference](#)
- Institute participation in conferences, professional days:
 - [XXV Symposium CPA&G Conference](#)
 - [Autumn Manager Conference](#)
 - [15. ICEEE 2024](#)



TALENT DEVELOPMENT



Scientific Student Conference Participation
Students participated in the conference held at Politehnica University of Timișoara in May 2024. Under Master Teacher Anna Tiefbrunner's supervision, student Tamás Bacsa presented his work and won the main prize in the Hungaropack Student Packaging Design Competition. [Details](#)

[Best Print Hungary Competition](#)
In the Junior category, student Lilla Richter-Cserey won a gold award for her project "Packaging Convertible into a Theater for Marionette Puppets." Supervisor: Master Teacher Piroska Prokai.

Carpathian Basin Summer University
The institute hosted the summer university, offering professional training to Hungarian-speaking light industry engineering students from across the

[Factory Visit to Car-Do Box Packaging Manufacturer Ltd.](#)
Third-year packaging technology students, guided by Teacher Piroska Prokai, learned about box

SELECTED PUBLICATIONS

Gyakorlati tapasztalatok a hallgatók ösztönzésére és a lemorzsolódási arány csökkentésére alkalmazott módszerekkel kapcsolatban

Csiszér Tamás

In: BODÁNÉ, KENDROVICS RITA (szerk.) TUDOMÁNY ÉS FENNTARTHATÓSÁG Budapest, Magyarország : Óbudai Egyetem (2024) 360 p. pp. 239-248., 10 p.

Analysis of student expectations to improve the quality of the engineering education

Farkas Gabriella, Göndör Vera, Tóth Georgina Nóra

ACTA POLYTECHNICA HUNGARICA (2024)

Women in print: five centuries

Orgovan Katalin, Horvath Csaba, Obermayer Nora

In: Proceedings - The Twelfth International Symposium GRID 2024 UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES DEPARTMENT OF GRAPHIC ENGINEERING AND DESIGN 21000 Novi Sad, Trg Dositeja Obradovića 6 (2024) pp. 1-6. Paper: 10.24867/GRID-2024-p92 , 6 p.

Creativity, Product Design, Engineering and the Art of Origami

Gabriella, Oroszlány; László, Koltai

In: Edit, Csanák (szerk.) IJCELIT 2023. Book of Proceedings of the 9th International Joint Conference on Environmental and Light Industry Technologies Budapest, Magyarország: Óbudai Egyetem Rejtő Sándor Könnyűipari és Környezetmérnöki Kar (2024) pp. 182-191. , 10 p.

EDUCATIONAL PORTFOLIO EXPANSION

In the spring semester of 2024, the Light Industry Engineer MSc program was launched, offering master's degrees in Packaging Technology, Printing and Media Technology, and Quality Management specializations.

In September, under the institute's guidance, the Process Developer Specialist Engineer and Specialist training began. This online, part-time program has ten participants with higher education degrees. It also serves as a pilot for a new modular teaching format developed by Dr. habil. Tamás Csiszér, first [presented at the Rejtő Conference in the fall](#).



INTERNATIONAL COOPERATION

MOBILITY PROJECTS 2024

- In February, [a delegation from the Faculty of Technical Sciences at the University of Novi Sad visited](#). In May, the institute [hosted Dr. Magdolna Pál under the CEEPUS program](#), focusing on cutting and binding technologies. Under Erasmus+, Master Teacher Piroska Prokai gave lectures at the University of Novi Sad. Dr. habil. László Koltai lectured at Marmara University in April and Ege University in July on paper industry topics. In July, the Rejtő Faculty [hosted a delegation from Ege University](#), and in June, [discussions were held with the Székelyudvarhely University Center](#) on developing education for Hungarian students
- In April, TTI hosted a lecturer from the University of Economics School of Design in Izmir. In May, a [Chadian delegation arrived](#). In June, Dr. Edit Csanák conducted Erasmus+ teaching mobilities at Saxion University in the Netherlands and the University of Novi Sad in Serbia. Dr. Gabriella Oroszlány conducted a teaching mobility in Faenza, Italy, and Dr. Manuella Zambianchi from ISIA led a block course. In September, [Prof. Dr. Jelka Gersak from the University of Maribor visited](#). In October, TTI staff and students participated in the [CEEPUS Winter School Design Week 2024](#). Dr. Edit Csanák attended an international conference and events in China. In November, Dr. Gabriella Oroszlány and Dr. Edit Csanák conducted teaching mobilities in Portugal and Serbia, respectively, and [Serbian guests arrived under the CEEPUS RS-0704-12-2324 program](#). In December, Dr. Edit Csanák completed a teaching mobility at the University of Zagreb
- The KTI institute hosted a [Hungarian-Kazakh higher education meeting focusing on cooperation in water management education](#). Institute members participated in various

EDITORIAL INFORMATION

- Editor:
Dr. Edit Csanák Vice-dean
- Editor in Chief:
Dr. habil László Koltai Dean