



## Ildiko Galambos, PhD

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**Address:** Zrínyi M. str. 18., Vár str. 8., 8800, Nagykanizsa, Hungary (Work)

### ● WORK EXPERIENCE

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30/06/2018 – CURRENT Nagykanizsa, Hungary

**HEAD OF RESEARCH AND DEVELOPMENT CENTER** SOÓS ERNŐ RESEARCH AND DEVELOPMENT CENTER, UNIVERSITY OF PANNONIA

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Organizing the educational and research work of the of the Soós Ernő Research and Development Center in the field of water related industrial and scientific topics, participation in the development of the education at the University of Pannonia. Responsible for the BSc program: Water Operation Engineering, and for the postgraduate program: Water and Wastewater Treatment System Operator. Leader or participant of different projects (Hungarian and bilateral Interreg projects), industrial R+D projects.

28/02/2018 – CURRENT Nagykanizsa, Hungary

**ASSOCIATE PROFESSOR** SOÓS ERNŐ WATER TECHNOLOGY RESEARCH AND DEVELOPMENT CENTER, UNIVERSITY OF PANNONIA

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Educational tasks at the Soós Ernő Research and Development Center - Water technology group (earlier Soós Ernő Water Technology Research and Development Center), such as Water treatment (BSc and Postgrad. education), Water chemistry and technology laboratory (Postgrad), Special water and wastewater treatment requirements of different industrial areas (BSc and Postgrad. education).

Research work in the field of membrane filtration and other membrane technologies for treatment of different water bodies (surface water, well-water, industrial wastewater and public sewerage water, high purity water), sustainable technology development.

17/02/2015 – 27/02/2018 Nagykanizsa, Hungary

**SENIOR RESEARCH FELLOW** SOÓS ERNŐ WATER TECHNOLOGY RESEARCH AND DEVELOPMENT CENTER, UNIVERSITY OF PANNONIA

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Organizing the work of the research group in the field of different water related industrial and scientific topics, project management and studies for Hungarian, bilateral and EU research tenders, creating international scientific network, international conference organization

14/09/2014 – 30/12/2016 Nagykanizsa, Hungary

**RESEARCH MANAGER** HIDROFILT WATER TREATMENT LTD.

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Organizing the work of the research group and development in the field of different water related industrial topics.

31/12/2010 – 13/09/2014 Budapest, Hungary

**ASSISTANT PROFESSOR** CORVINUS UNIVERSITY OF BUDAPEST, DEPARTMENT OF FOOD ENGINEERING

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- **Education:** In the subjects of Chemical Industry Operation (I-II.) and Food Industry Operation (I-III.) and Material- and Energytransport Processes education of the basics of hydro- and thermodynamics is necessary (presentations, class work and laboratory practice)
- **Maint topics** (without limitation): hydrodynamics in tubing and packed towers, fluidizing, pneumatic transport, thermodynamics, heat transfer processes, evaporation
- Work-out of the theme of different subjects/training (e.g. Chemical Industry Operations I-II., „Palinka-distiller" )

**Research:** application of membrane technology in the water/wastewater treatment and food production  
**Supervising of BSc, MSc, PhD students** (Hungarian, American, Finnish, French) (19 pcs)

**Plan and evaluation of experimental projects, e.g.:**

Reduction of chemical oxygen demand of wastewater using membrane separation processes (Hidrofilt Ltd.)

Concentration of solution of Vitamin B12 using membrane filtration (Richter Gedeon Rt.)

**Design and building of different equipments in laboratory and pilot scale**

**Work in tenders** (OTKA, NKFP, Tempus, TÉT)

**Oral presentations at conferences** (e.g. China, South-Korea, Slovakia, Spain, Portugal) and at different firms

**Publications:** 3 Hungarian book chapters, 6 articles in lectured journals (English), 32 other articles and publications in English and Hungarian journals and conference proceedings

## ● EDUCATION AND TRAINING

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2001 – 2006 Budapest, Hungary

**PHD STUDENT** Corvinus University of Budapest, Doctoral School of Food Sciences

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PhD thesis: Humic acid and arsenic removal from well-water using membrane filtration

1998 – 2002 Budapest, Hungary

**GERMAN TRANSLATOR** Szent István University, Faculty of Food Science

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1995 – 2002 Budapest, Hungary

**FOOD ENGINEER** Szent István University, Faculty of Food Science

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## ● LANGUAGE SKILLS

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Mother tongue(s): **HUNGARIAN**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
<b>ENGLISH</b>	C1	C1	C1	C1	C1
<b>GERMAN</b>	C1	C1	B2	B2	B2

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*Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user*

## ● ADDITIONAL INFORMATION

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### PROJECTS

**Projects** 2023-2025 2021-1.2.4-TÉT-2021-00059, Global clean water problem: the deteriorating quality of surface waters in the light of community human needs, research manager

2020-2022 HUIR/1901/2.2.1/0128, Interreg V-A Hungary-Croatia Co-operation Programme 2014-2020, Monitoring of surface and underground water in Medimurje and Zala County, research manager

2020 2020-2.1.1-ED-2020-00014 Investigation of the SARS-CoV2 virus by analysis of different wastewaters, research manager

2020-2023 2019-1.3.1-KK-2019-00015 Establishment of a sustainability competence center based on circular economy at the University of Pannonia, head of the topic "Water technology"

2017-2019 GINOP-2.2.1-15-2016-00029 – Optimized recycling and reduction of environmental impact of thermal and medicinal water using innovative microbiological, industrial and cavitation techniques, research manager

2016-2017 MOL Nyrt. „Reducing fresh water consumption at the Danube Refinery”. A study for project preparation to establish conception of treated wastewater recirculation

2016- GINOP-2.3.2-15-2016-00016 – Protection of water resources, development of modular and mobile water treatment systems at the University of Pannonia, participant

2016- EFOP-3.6.1-16-2016-00015 – Institution building for support of smart specialisation at the University of Pannonia, participant

2015 Revising the water system of TVK, developing sampling strategy I., II.,

2015 Technical study for FALCO Ltd. Szombathely

2015 TÁMOP-4.2.1.C-14/1/Konv-2015-0006 "Pannon-Knowledge-Park " Development of Pannon Growth Zone Knowledge Transfer Activities in Collaboration between Higher Education, Local Government and Industry"

2013-2015 TÁMOP-4.1.1.C-12/1/Konv-2012-0005 Higher education cooperation for the water sector

2013-2014 Production of a whey based galactooligosaccharide containing beverage with gentle membrane separation and enzymatic processes

2011-2014 Eureka Memfida 2 (EUREKA\_HU\_08-1-2010-0010): Intezification of membrane separation processes in the dairy industry, participant

2007-2011 OTKA-68596: Examination and intensification of mass transfer phenomena of membrane separation in the food industry and the environmental technologies, Participant

2005-2006 HEFOP 3.3.1.-P-2004-09-0013/1.0: Tender for developing high education structures: Food safety and quality

2003-2004 Kínai-Magyar TÉT CHN-2/2002: Membrane separation of oily wastewaters of machinery and food industry, participant

2002-2005 NKFP OM-00308/2002: Gentle and energy effective production of vitamin and flavor enriched foodstuffs using complex membrane techniques, participant

2013-2014 Process development for galacto-and fructo-oligo carbohydrate content dairy products applying enzymatic membrane bioreactor (Friesland Campina Domo, the Netherlands)

2004 Vitamin B12 concentration from different ferment broth, Richter Gedeon Rt. (Dorog)

2002 COD reducing techniques from industrial waste waters based on membrane filtration ,Hidrofilt Ltd. (Nagykanizsa)

## HONOURS AND AWARDS

**Honours and awards** 2014 Certificate of Appreciation from Corvinus University of Budapest, Faculty of Food Sciences

2013 Co-supervisor regarding the Wolfgang Kessler Award MSc. thesis: Tóth Marcell: Examination of properties and application opportunities regarding gluten-free wheat starch production (2012)

2009 CERTOP Award for the book : Balla Cs., Siro I. (Ed.) (2007) Élelmiszer-biztonság és -minőség II.

2003 Best Young Lecturer – Lippai-Ormos-Vas Scientific Session for the presentation „Membrane separation for humic acid removal"

## ORGANISATIONAL SKILLS

**Organisational skills** Logical way of thinking

Problem solving skills

## COMMUNICATION AND INTERPERSONAL SKILLS

**Communication and interpersonal skills** Good communication and presentation skills (in Hungarian and in English)

Ability to work in team

Confident and diplomatic attitude

Empathy

## COURSES

### Courses

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2022 Academic Writing Skills, Atlantic Language School, Galway, Ireland

2013 Hefei University of Technology, Institute of Tribology, China

2013 EURoutes: European Traditions towards Active Citizenship and a Strengthen Cultural Integration (TEMPUS) Valencia, Spain

2012 EURoutes: European Traditions towards Active Citizenship and a Strengthen Cultural Integration (TEMPUS) Porto, Portugal  
2005 Hefei University of Technology, Institute of Tribology, China  
2002 European Membrane Society XIX. Summer Course, Membrane Product & Membrane Process Development, Enschede, Hollandia  
2000 Student exchange program at Michigan University, 9 Month, USA