

Full Time Chemical Engineering MSc Programme in Petroleum Refining and Petrochemicals in English

University of Pannonia,
Veszprém



HUNGARY

2017

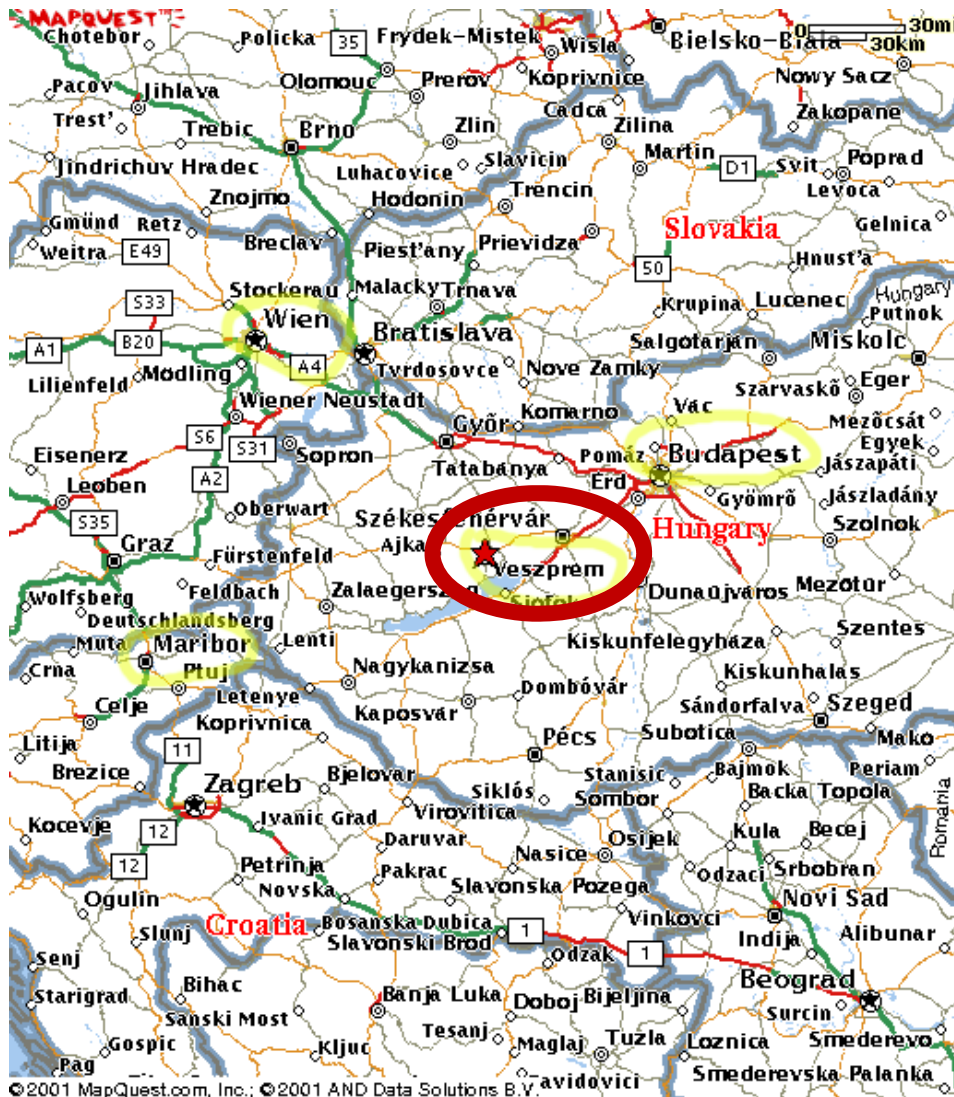


Why Veszprém?

- Study and travel in the European Union
- Globally accepted and competitive chemical engineering diploma
- Practice oriented education and industrial training possibilities
- Cost efficiency



Veszprém, Hungary, in Central Europe, in the European Union



Facts about HUNGARY:

- <http://gohungary.com/about-hungary>
- <https://www.cia.gov/library/publication/s/the-world-factbook/geos/hu.html>
- <http://www.fsz.bme.hu/hungary/facts.html>

Study in HUNGARY:

- <http://studyinhungary.hu/>

University of Pannonia, Veszprém



Faculty of
Economics

Faculty of
Information
Technology

Faculty of
Engineering

Faculty of
Agricultural
Sciences

Faculty of
Modern
Philology and
Social Sciences

Pictures of VESZPRÉM: https://www.youtube.com/watch?v=9W5SEyKU_hw
University of Pannonia: <http://englishweb.uni-pannon.hu/>

Programme accredited by the Institute of Chemical Engineers (IChemE, UK)

IChemE, UK: <http://www.icheme.org/careers/universities.aspx>

Globally accepted and competitive chemical engineering diploma,
unique in Hungary and in the region, too

The screenshot shows the IChemE website's 'Accredited universities' page. The page is divided into several sections: 'Accredited universities' (with sub-sections for Australia, China, France, Hungary, and Ireland), 'My IChemE' (with fields for Membership/Ref No and Pin/Password), and 'Quick links'. A callout box on the right side of the page lists the following universities:

- France
ENSIC, Nancy
- Hungary
University of Pannonia
- Ireland

Wide industrial areas covered in our MSc programme



Upstream (US)

Downstream (DS)

Sales - Logistics - Retail

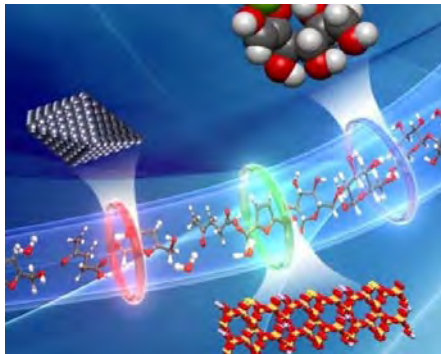
**Waste minimisation,
utilisation,
Biomass Processing**

Plastics

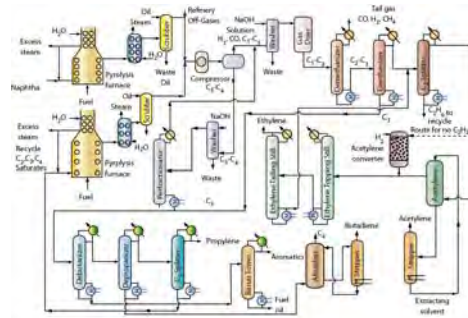
**Chemicals, polymers
(PetChem)**



Special focus areas in refining and petrochemical industry



Catalysis



Chemical Technology



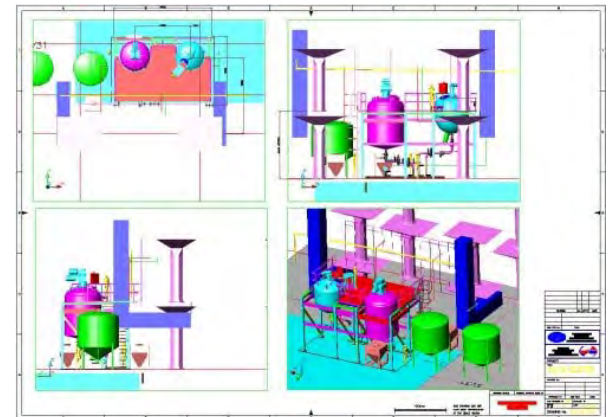
Economics



Maintenance



SCM

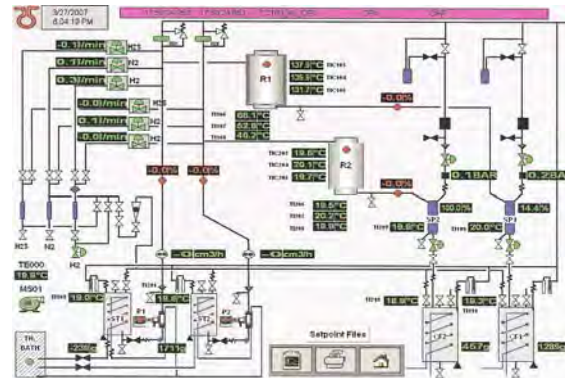


Process Design

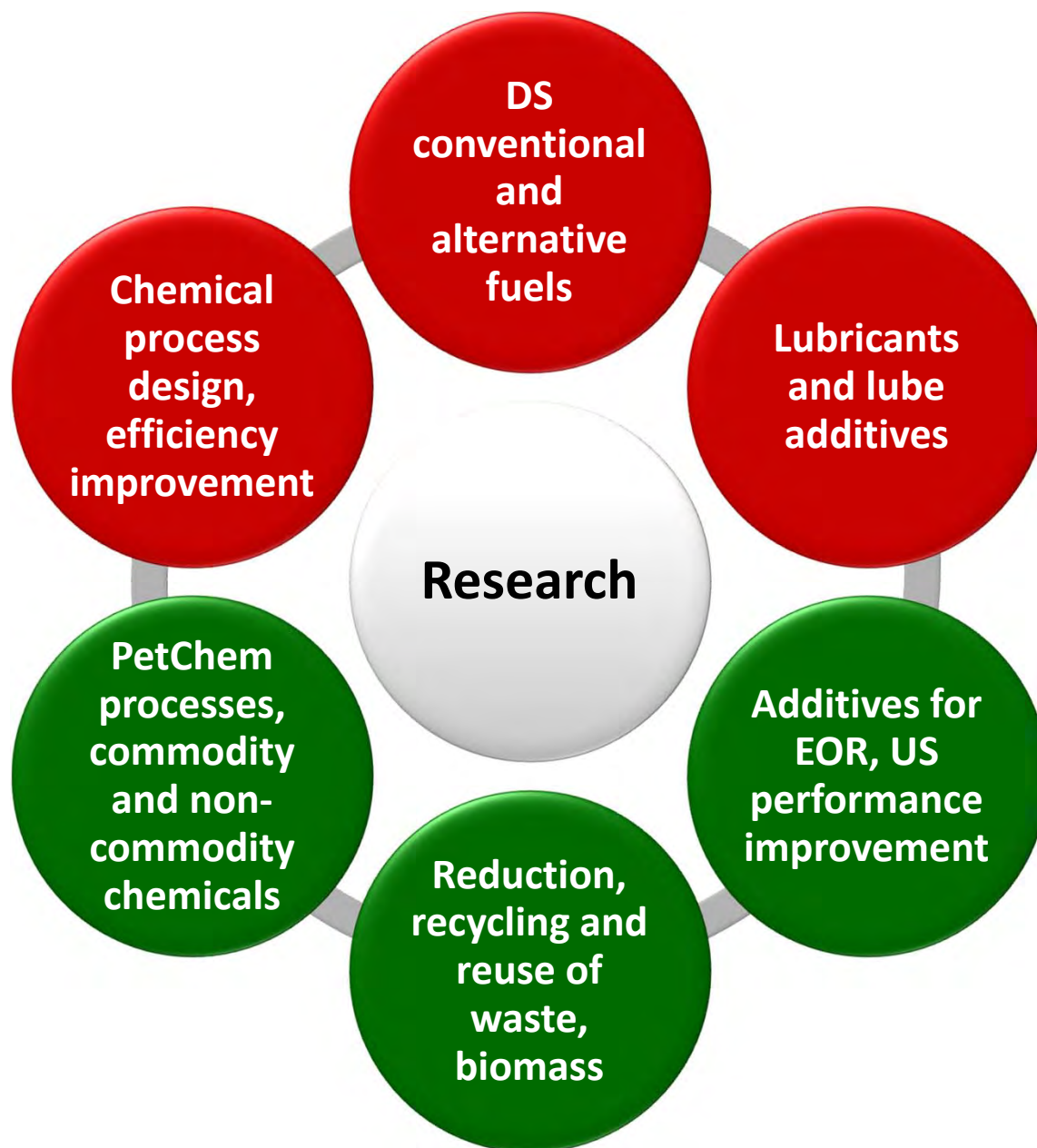
Job opportunities



Excellent infrastructure



Main research areas



Staff

- András HOLLÓ, PhD, MBA – associated professor, head of dept.
- Jenő HANCSÓK, DSc – professor
- Zoltán VARGA, PhD – associated professor
- Norbert MISKOLCZI , PhD – associated professor
- Csilla VARGA, PhD – assistant professor
- Roland NAGY, PhD – research associate
- Péter GERGÓ, MSc – research engineer
- Invited industrial leading experts, managers from Europe
- Assistant lecturers
- Administrator
- Technicians
- PhD students



Our MSc programme in numbers

Application deadline	5.3.2017
Education starts	1.9.2017
Number of credits to be achieved	120
Form	full-time
Qualification	MSc in Chemical Engineering (IChemE)
Tuition fee per semester	3 400 Euro (for non-EU citizens)*
Living expenses per month	400-800 Euro
<i>Requirements</i>	
	<i>BSc in chemical engineering</i>
	<i>Average grades of "B" or better</i>
	<i>Proof of English language proficiency</i>

*Scholarship is available, see next page

Application, funding

<http://studyinhungary.hu/>

<http://www.tka.hu/international-programmes/2966/stipendium-hungaricum>

Deadline: 05.03.2017

Active students' life



Contacts

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**Full time MSc Course in
Petroleum Refining and Petrochemicals
for chemical engineers**

Appendix

Knowledge, skills, abilities

The MSc programme aims to improve the knowledge and understanding of upstream surface technologies, downstream petroleum refining and petrochemicals, chemicals production. The outcomes of the education are:

- Up-to-date knowledge in petroleum handling, transportation, refining and petrochemical processes and products, their supply and value chain
- The financial analysis and improvement of the profitability of refining and petrochemicals plants
- Safety, health, and environment principles in a refinery and petrochemical complex
- Design, operate, maintain and improve the efficiency of process units
- Understand correlation among legislative issues, product quality, technology parameters
- Perform and understand modern laboratory analysis of feeds, intermediates and products of refining and petrochemical industry
- Understand the developments of joint industries: transportation and its infrastructure, commodity and non-commodity chemicals, consumer services, CCS, energy industry
- Utilisation of biomass and waste

The MSc programme targets to strengthen cognitive skills, especially in the aspects of problem definition, knowledge acquiring, synthesis, creativity, as jointly demonstrable through the successful completion of the thesis work.

The key learning outcomes include the development of the skills and abilities in the following fields:

- Organizing and planning of work activity
- Collaborative work in a team
- Use of general and professional computing and modelling tools
- Research into new areas, preparation of literature review
- Writing reports, memos
- Preparation and delivery of communication and presentation

Fully industry controlled and taught subjects



**Economics of
Petroleum Processing**

**Optimisation in the
Petroleum Industry**



**Maintenance in the
Refining and
Petrochemical industry**

**Analyses in the
Petroleum Industry**



Selected publications of the Department

- Kinetics of hydroisomerization of C5–C7 alkanes and their mixtures over platinum containing mordenite, **Applied Catalysis A: General**, Volume 229, Issues 1–2, 10 April 2002, Pages 93-102, A. Holló, J. Hancsók, D. Kalló
- Investigation of the production of high cetane number bio gas oil from pre-hydrogenated vegetable oils over Pt/HZSM-22/Al₂O₃, **Microporous and Mesoporous Materials**, Volume 101, Issues 1–2, 19 April 2007, Pages 148-152, J. Hancsók, M. Krár, Sz. Magyar, L. Boda, A. Holló, D. Kalló
- Production of bioparaffins by the catalytic hydrogenation of natural triglycerides, **Journal of Cleaner Production**, Volume 34, October 2012, Pages 76-81, J. Hancsók, T. Kasza, S. Kovács, P. Solymosi, A. Holló
- Quality improvement of bio-paraffin mixtures, *Fuel*, Volume 120, 15 March 2014, Pages 1-7, T. Kasza, D. Kalló, J. Hancsók
- Oligomerisation of isobutene with silica supported ionic liquid catalysts, **Green Chemistry**, Volume 14, Issue 2, 2012, Pages 403-409, Cs. Fehér, E. Kriván, J. Hancsók and R. Skoda-Földes
- Evaluating the mechanical properties of reinforced LDPE composites made with carbon fibres recovered via solvothermal processing, **Composites Part B: Engineering**, Volume 78, 1 September 2015, Pages 393-400, E. Yildirim, N. Miskolczi, J.A. Onwudili, K.E. Németh, P.T. Williams, J. Sója
- Thermo-catalytic co-pyrolysis of recovered heavy oil and municipal plastic wastes, **Journal of Analytical and Applied Pyrolysis**, Volume 117, January 2016, Pages 273-281, N. Miskolczi, F. Ateş
- Production of oil with low organobromine content from the pyrolysis of flame retarded HIPS and ABS plastics, **Journal of Analytical and Applied Pyrolysis**, Volume 83, Issue 1, September 2008, Pages 115-123, N. Miskolczi, W. J. Hall, A. Angyal, L. Bartha, P. T. Williams
- Selective desulphurization and denitrogenation of hydrocarbon mixtures rich in olefins, **Catalysis Today**, Volume 176, Issue 1, 1 November 2011, Pages 177-181, J. Hancsók, Zs. Szoboszlai, T. Kasza, A. Holló, A. Thernesz, D. Kalló
- Effects of furfural activated crumb rubber on the properties of rubberized asphalt, **Construction and Building Materials**, Volume 28, Issue 1, March 2012, Pages 96-103, K. M. Shatanawi, Sz. Biro, A. Geiger, S. N. Amirkhanian
- Olefin–maleic-anhydride copolymer based additives: A novel approach for compatibilizing blends of waste polyethylene and crumb rubber, **Waste Management**, Volume 38, April 2015, Pages 65-71, B. Tóth, Cs. Varga, L. Bartha
- Hydrotreating of gasoils on bimetallic catalysts: effect of the composition of the feeds, **Studies in Surface Science and Catalysis**, Volume 158, Part B, 2005, Pages 1891-1898, Z. Varga, J. Hancsók, G. Nagy, D. Kalló