

## Europass Curriculum Vitae

### Personal information

First name(s) / Surname(s) **Željko Knez**

Address(es) Aljaževa 15  
2000  
Maribor  
Slovenia

Telephone(s) +3862 320 3000

E-mail zeljko.knez@um.si

Nationality Slovene

Date of birth 26/08/1954

Gender male

Mobile: +38641 371 666



### Desired employment / Occupational field

Full Prof. Dr.

### Work experience

Dates 1977-1981

Institution Pinus – d.d., Rače, SI

Dates From 1981

Institution University of Maribor, Faculty of Chemistry and Chemical Engineering (1981-1983 Assistant, 1985-1990 Assistant Professor, 1990-1995 Associate Professor, from 1995 Full Professor, from 1997 Vice dean for research on Faculty of Chem. & Chem. Eng., from 1999 till 2002 Vice rector for research on University of Maribor, from July 2002 to May 2003 Executive rector of University of Maribor, from July 2003 till July 2007 Vice rector on University of Maribor, from July 2007 – Dean of Faculty of Chem. & Chem. Eng.)

### Education and training

Dates 1973-1977

Title of qualification awarded BSc in chemical engineering

Name and type of organisation providing education and training University of Maribor, Faculty of Chemistry and Chemical Engineering

Level in national or international classification seventh level

Dates 1977-1979

Title of qualification awarded MSc in chemical engineering

Name and type of organisation providing education and training University of Ljubljana

Level in national or international classification eighth level

Dates	1979-1984
Title of qualification awarded	Ph.D. in chemical engineering
Name and type of organisation providing education and training	University of Maribor, Faculty of Chemistry and Chemical Engineering
Level in national or international classification	ninth level
<b>Skills and competences</b>	<p><b>STAYS ABROAD:</b></p> <ul style="list-style-type: none"> <li>• 1985 - 5 months -Department of Food Engineering, Universität für Landwirtschaft, Wageningen, Niederlande,</li> <li>• 1 month in each year 1990/92/94/95/96/97 - Technische Chemie II, UNI Erlangen, Nürnberg, Germany.</li> </ul> <p><b>AWARDS:</b></p> <ul style="list-style-type: none"> <li>• Seligman APV Fellowship/Bursary in Food Engineering, London, 1997, UK,</li> <li>• American Oil Chemists Society award, 1997, USA,</li> <li>• Messer Griesheim Preis (Innovationspreis 1998), D,</li> <li>• Zois's price, 1998, SI,</li> <li>• Zois's award for scientific achievements, 2006, SI.</li> </ul> <p><b>PUBLICATIONS:</b></p> <ul style="list-style-type: none"> <li>• 208 scientific articles and 15 review articles,</li> <li>• chapters to 25 books,</li> <li>• 15 patents (3 EP, 1 USA, 1 Canada, 1 Japan),</li> <li>• 3669 citations (WoS/Scopus), 3203 citations (pure citations)(WoS/Scopus), (<i>h</i>-index = 32).</li> </ul> <p><b>INDUSTRIAL PROJECTS:</b></p> <ul style="list-style-type: none"> <li>• Chemical industry-(Siemens-Axiva-D, BayerAG-D, Henkel-D, Pinus TKI d.d.-SI, PPG-ZDA, Helios-SI, Thyssen-Krupp-D),</li> <li>• Food industry-(Raps-D, ETOL-SI, Vitiva, d.o.o.-SI, Bunge-ZDA),</li> <li>• Cosmetics-(Rausch-CH),</li> <li>• Pharmacy-(Krka-SI, Novartis Lek-SI, Bayer-pharma-SI, Zeller-CH),</li> <li>• Engineering-(Uhde-D, Natex-A).</li> </ul> <p><b>INTERNATIONAL SCIENTIFIC PROJECTS:</b></p> <ul style="list-style-type: none"> <li>• 5th EU Frame Programme – Product Engineering of Nutraceuticals with Superior Quality »PRONUTRA« (G1RD-CT-2000-00205),</li> <li>• 5th EU Framework Programme – Marie Curie Training Site – Processes using sub - and supercritical fluids (HPMT-CT-2001-00418),</li> <li>• 6th EU Framework Programme – Marie Curie Early Stage Research Training Site – Green/clean processing of bioactive materials »SUB CLEAN PROBIOMAT« (MEST-CT-2004-007767),</li> <li>• 6th EU Framework Programme – Marie Curie Research Training Network – Green chemistry in supercritical fluids: phase behaviour, kinetics and scale-up »SUPERGREENCHEM« (MRTN-CT-2004-504005),</li> <li>• 7th EU Framework Programme - Reforming of Crude Glycerine in Supercritical Water to Produce Methanol for Re-Use in Biodiesel Plants – «SUPER METHANOL« (212180),</li> <li>• many bilateral cooperations,</li> <li>• Eurostar Eureka project MOSS - Supercritical Aqueous Reforming of Moist Sewage Sludge a Sustainable Energy Concept for Sewage Treatment Plants (STPs) ( E!5877 MOSS),</li> <li>• 7th EU Framework Programme - Support for training and career development of researchers (Marie Curie) - Networks for Initial Training (ITN) - Training Program for the Design of Resource and Energy Efficient Products by High Pressure Processes - «DoHip« (Grant Agreement Number 316959),</li> <li>• COST D10, COST D25, COST D29, COST D30, CEEPUS.A-19.</li> </ul>

**OTHER RESEARCH PROGRAMME AND PROJECTS:**

- Separation processes and product design – research programme (P2-0046-0794),
- R&D project of Centre of Excellent – Supercritical Fluids (3311-04-855013),
- Development of research infrastructure of Centre of Excellent – Supercritical Fluids (3311-04-885103),
- Research projects Slovenian Research Agency (Z2-7127; L2-9633; L2-0358, J2-1176, etc.).

**MEMBERSHIP IN SCIENTIFIC ASSOCIATIONS:**

- EFCE – member of WP High pressure technologies,
- vice-president of Slovenian Chemical Society,
- member of AOCS, ISASF, ProcessNet,
- member of EASA.

**REFEREE FOR:**

- more than 50 journals.

**MEMBER OF THE EDITORIAL BOARDS:**

- Acta Chimica Slovenica, Ljubljana, SI,
- Chemical Industry & Chemical Engineering Quarterly, Beograd, RS,
- The Journal of Supercritical Fluids, Cincinnati, OH,
- Acta medico-biotechnica, Maribor, SI.

native language Slovenian

Other language(s) English, German, Croatian, French

European level (\*)

**English**

**German**

**Croatian**

**French**

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
C2	Qualified user	C2	Qualified user	C2	Qualified user	C2	Qualified user	C2	Qualified user
C2	Qualified user	C2	Qualified user	C2	Qualified user	C2	Qualified user	C2	Qualified user
C2	Qualified user	C2	Qualified user	C2	Qualified user	C2	Qualified user	C2	Qualified user
B1	Independent user	B2	Independent user	A2	Basic user	A2	Basic user	A1	Basic user

(\*) [Common European Framework of Reference for Languages](#)

**Highest achievements:**Scientific:

- Establishment of the high-pressure laboratory (completely new discipline in Maribor) in year 1985 (today; Laboratory for separation processes and product design, with 28 employees);

Technological:

- Based on patent WO 0049115 (or EP 1144561) a pilot plant was established in Technology park in year 1999. Based on successful production a new company was erected ("green field" investment) and start production in 2003. Today, company has 50 employees and produces cca. 300 t per year of concentrated nature antioxidative substances (export 99.99 %).