

CURRICULUM VITAE

Personal Data

Name: Eng. Sabina Jolanta **HORODECKA**, M.Sc.

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Date of birth: 12.06.1991, Rzeszów, Poland
Marital status: Married
Nationality: Polish

Languages

- Polish native language
- Czech good
- English good
- German basics

Education

10.2016 – present
Ph.D. student of Macromolecular chemistry,
Charles University in Prague, Faculty of Science, The Czech Republic
thesis: “**Oriented copolymers with liquid crystalline building blocks**” under the guidance of Eng. Adam Strachota, Ph.D.

Studies

Master Thesis

02.2014 – 07.2015
M.Sc. in Chemical Technology,
Ignacy Łukasiewicz Rzeszów University of Technology,
Faculty of Chemistry, Poland
Specialization: Polymer Materials Engineering
“**Separation of enantiomers by the process of crystallization**”
under the guidance of Eng. Wojciech Piątkowski, Ph.D.

Bachelor Thesis

10.2010 – 02.2014
B.Sc. in Chemical Technology,
Ignacy Łukasiewicz Rzeszów University of Technology,
Faculty of Chemistry, Poland
Specialization: Organic and polymer technology
“**Application of nonlinear diffusion equation solutions shooting method of chemical reaction**”
under the guidance of Eng. Mirosław Szukiewicz, Ph.D.

School Education

09.2007 – 06.2010

King John III Sobieski High School in Przeworsk, profile with focus on English and Biology, (Poland)

09.1998 – 06.2007

St. Anthony of Padua Primary and Secondary School, Urzejowice, (Poland)

Work Experience

10.2015 – present

Research worker at the **Institute of Macromolecular Chemistry** of the Academy of Sciences of the Czech Republic (UMCH AV CR, v.v.i.) in **Prague**, group of **Eng. Ivan Kelnar, CSc.**

Work on the synthesis and characterization of liquid crystalline copolymers.

10.2015-07.2016

UNESCO/IUPAC Postgraduate Course in Polymer Science at the Institute of Macromolecular Chemistry, AS CR, Prague on the topic: **“Oriented copolymers with liquid crystalline building blocks”** under the guidance of Eng. Adam Strachota, Ph.D.

Other practical activities

03.2018

First Certificate in English (FCE)

08.2012

Student internship in **the District’s Chemical-Agricultural Station** in Rzeszów, Poland

07.2012

Student internships in **the ICN Polfa Rzeszów SA**, Poland

Conferences and publications

4 papers in edited international journals,
3 presented conference posters (+1 in the internal conference at **IMC**),
1 oral presentation

Hobbies / Interests

cooking, books, travelling, dancing

List of publications

List of the articles constituting the Thesis:

1. „Melttable copolymeric elastomers based on polydimethylsiloxane with multiplets of pendant liquid-crystalline groups as physical crosslinker: a self-healing structural material with a potential for smart applications“

S. Horodecka, A. Strachota*, B. Mossety-Leszczak, M. Šlouf, A. Zhigunov, M. Vyroubalová, D. Kaňková, M. Netopilík.

European Polymer Journal 2020, 137, 109962_1–109962_23.

DOI: <https://doi.org/10.1016/j.eurpolymj.2020.109962>

2. „Low-temperature melttable elastomers based on linear polydimethylsiloxane chains alpha, omega-terminated with mesogenic groups as physical crosslinker: a passive smart material with potential as viscoelastic coupling. Part I: synthesis and phase behavior“

S. Horodecka, A. Strachota*, B. Mossety-Leszczak, B. Strachota, M. Šlouf, A. Zhigunov, M. Vyroubalová, D. Kaňková, M. Netopilík, Z. Walterová.

Polymers 2020, 12, 2476_1–2476_27.

DOI: <https://doi.org/10.3390/polym12112476>

3. „Low temperature-melttable elastomers based on linear polydimethylsiloxane chains alpha, omega-terminated with mesogenic groups as physical crosslinker: a passive smart material with potential as viscoelastic coupling. Part II: viscoelastic and rheological properties“

S. Horodecka, A. Strachota*, B. Mossety-Leszczak, M. Kisiel, B. Strachota, M. Šlouf.

Polymers 2020, 12, 2840_1–2840_31.

DOI: <https://doi.org/10.3390/polym12122840>

List of the articles not included in the Thesis:

1. „Polyurethane nanocomposites containing the chemically active inorganic Sn-POSS cages“

B. Strachota, A. Strachota*, S. Horodecka, M. Steinhart, J. Kovářová, E. Pavlova, F. Ribot.

Reactive & Functional Polymers 2019, 143, 104338_1–104338_16.

DOI: <https://doi.org/10.1016/j.reactfunctpolym.2019.104338>