



prof. dr hab. inż. Joanna Harasym

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Field of study:

Agricultural Sciences

Discipline:

Food Technology and Nutrition

Department:

**Biotechnology and Food
Analysis**

Title / Position:

**Full Professor,
Head of Department,
Director of Adaptive Food
Systems Accelerator
– Research Centre**

Links:

www:

https://www.researchgate.net/profile/Joanna_Harasym2 ;

Publications:

https://www.researchgate.net/profile/Joanna_Harasym2 ;

Academic specialization:

- ❖ Future foods (rare and exotic plants, seaweed, vegetables, fruit and cereal crops)
- ❖ Food loss prevention - Valorisation of the cereal, fruit and vegetable industry as raw materials with high antioxidant activity and a source of fibre/protein in food product formulations
- ❖ 3D printing in food (use of spatial printing in the creation of innovative food products)
- ❖ Oleo-gels and emulgels – innovative substitutes for solid fats – low calorie food
- ❖ Food emulsions as the basis for new products (gluten-free, vegan)
- ❖ Innovative sources of protein
- ❖ Gluten-free food

Samples of PHD topics or areas:

- ❖ The doctoral student's own initiative within the framework of technological innovations in the food industry and the supervisor's research interests - bakery products and snack products
- ❖ Technical and technological innovations in the production of gluten-free, functional and health-promoting foods
- ❖ Unconventional plant raw materials in the production of gluten-free, functional and health-promoting foods
- ❖ Modern formulations of dedicated food products
- ❖ Use of by-products from the food industry as valuable raw materials to create value-added products - sustainable resource management



dr hab. inż. Irena Jacukowicz-Sobala, prof. UEW

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Field of study:

Agricultural Sciences

Discipline:

Food Technology and Nutrition

Department:

**Department of Chemical
Technology**

Title / Position:

Associate Professor

Links:

www:

<https://uew.pl/employee/119275/>

Publications:

<https://www.scopus.com/authid/detail.uri?authorId=15019482100>

ORCID: 0000-0003-2405-3433

Academic specialisation:

- ❖ Use of sustainable materials and technologies in water and wastewater treatment, including photocatalysis and adsorption
- ❖ Synthesis and characterisation of polymeric composites containing metal oxides
- ❖ Implementation of zero-waste management practices for residues from agriculture and food production
- ❖ Extraction of bioactive compounds from residual biomass

Samples of PhD topics or areas:

- ❖ Extraction of tannins from fruit processing wastes as components of multifunctional bio-based ion exchangers for the removal of arsenic and chromium from water
- ❖ Utilisation of tannins derived from fruit wastes as components for the synthesis of multifunctional active food biopackaging
- ❖ Phloratannins from bladderwrack macroalgae as reagents for the synthesis of biobased polymers and chemicals
- ❖ Hydrothermal valorisation of residual biomass into platform chemicals



dr hab. inż. Daniel Ociński, prof. UEW

Phone: +48 71 3680981

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Field of study:

Agricultural sciences

Discipline:

Food Technology and Nutrition

Department:

**Department of Production
Engineering**

Title / Position:

Associate Professor

Links:

<https://uew.pl/employee/119173/>

Publications:

<https://www.scopus.com/authid/detail.uri?authorId=12243442500&origin=AuthorEval>

ORCID: 0000-0003-3590-0781

Academic specialization:

- ❖ Conversion of biomass to value-added compounds (VACs) in sub- and supercritical fluids
- ❖ Extraction of bioactive compounds from industrial plant waste
- ❖ Synthesis and evaluation of hybrid polymers with adsorption and/or oxidation properties

Samples of PHD topics or areas:

- ❖ Optimizing of extraction and hydrolysis of polysaccharides from food industry waste in sub- and supercritical water
- ❖ Extraction of variety bioactive compounds from waste plant biomass using advanced statistical methods based on Doehlert, Box-Benken, and CCD matrices
- ❖ Synthesis of aerogels with diverse properties using supercritical carbon dioxide



dr hab. inż. Agnieszka Orkusz, prof. UEW

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Field of study:

Agricultural Sciences

Discipline:

Food Technology and Nutrition

Department:

**Biotechnology and Food
Analysis**

Title / Position:

Professor UEW

Links:

www:

<https://uew.pl/employee/119143/>



Publications:

<http://www.wir.ue.wroc.pl/info/author/WUT289277/Agnieszka+Orkusz>

ORCID: 0000-0001-5394-7407

Academic specialization:

- ❖ Technological innovations in the production of functional and health-promoting foods
- ❖ Edible insects as an innovative food ingredient – nutritional value, safety, technological and sensory properties, and consumer acceptance
- ❖ Nutrition of different population groups (children, adolescents, students, hospital patients, older adults) and assessment of the quality of institutional food services
- ❖ Nutrition-related issues in the context of lifestyle-related diseases

Samples of PHD topics or areas:

- ❖ Attitudes, acceptance, and dietary behaviours towards edible insects among selected consumer groups (e.g., students, patients, older adults)
- ❖ Impact of incorporating insect-based components (flour, protein fractions, fat) on the nutritional value, physicochemical, and sensory properties of selected food products (e.g., pasta, bread, high-protein snacks)
- ❖ Changes in the physicochemical, microbiological, and sensory properties of insect material during preservation and storage processes
- ❖ Assessment of diet quality and compliance with dietary guidelines in institutional catering (hospitals, canteens), taking into account the potential for introducing innovative food products

Any other topic may be proposed after prior consultation



dr hab. inż. Przemysław Seruga, prof. UEW

Phone: +48 71 3680872

• e-mail: przemyslaw.seruga@ue.wroc.pl

Field of study:

Agricultural Sciences

Discipline:

Food Technology and Nutrition

Department:

**Department of Bioprocess
Engineering**

Title / Position:

Associate Professor

Links:

www:

<https://uew.pl/employee/120625/>

Publications:

<https://www.wir.ue.wroc.pl/info/author/WU-Tb3052301b8a94c9bb5d36ddb425490bc?r=publication&ps=20&tab=publications&sort=&title=Profil%2Bosoby%2B%25E2%2580%2593%2BPrzemys%25C5%2582aw%2BSeruga%2B%25E2%2580%2593%2BUniwersytet%2BEkonomiczny%2Bwe%2BWroc%25C5%2582awiu&lang=pl&pn=1>

ORCID: 0000-0003-1210-1063

Academic specialization:

- ❖ Processing of agricultural and food industry substrates *via* anaerobic digestion, renewable energy production and bioproducts
- ❖ Circular economy, sustainable development
- ❖ Management and utilisation of food production waste
- ❖ Production processes engineering and optimisation

Samples of PHD topics or areas:

- ❖ Introduction of circular economy in food industry enterprises (level of implementation, indicators, implementation tools)
- ❖ The use of substrates from the agri-food industry in the aspects of sustainable development and circular economy
- ❖ Effective management of waste from the agri-food/food industry
- ❖ Fermented fruit products as functional foods
- ❖ Other proposed by the Candidate, after prior discussion