



## ACADEMIC TEACHER PROFESSIONAL EXPERIENCE

### DOCTORAL SCHOOL OF WROCLAW UNIVERSITY OF SCIENCE AND TECHNOLOGY

#### 1. Basic information

Name, surname:	Wojciech, Lorenc
Grade / Title:	Prof
Scientific discipline	<b>inżynieria lądowa, geodezja i transport / civil engineering, geodesy and transport</b>
Faculty:	W2 Wydział Budownictwa Lądowego i Wodnego / Faculty of Civil Engineering
Email address:	Wojciech.lorenc@pwr.edu.pl
Link to home page and/or research profiles (Google Scholar, ResearchGate, etc.)	<a href="https://www.researchgate.net/profile/Wojciech-Lorenc-2">https://www.researchgate.net/profile/Wojciech-Lorenc-2</a>

#### 2. Publication record

*Up to 10 most important papers published over the period of previous 10 years.*

No.	Description (authors, publication title, journal / conference, DOI)	Publication year
1.	Wojciech Lorenc, Wolfgang Kurz*, Günter Seidl*. Hybrid steel-concrete sections for bridges: definition and basis for design. Engineering Structures. 2022, vol. 270, art. 114902, s. 1-14.	
2.	Wojciech Lorenc, Concrete failure of composite dowels under cyclic loading during full-scale tests of beams for the "Wierna Rzeka" bridge. Engineering Structures. 2020, vol. 209, art. 110199, s. 1-14.	
3.	Maciej P. Koźuch, Wojciech Lorenc. The behaviour of clothoid-shaped composite dowels: experimental and numerical investigations. Journal of Constructional Steel Research. 2020, vol. 167, art. 105962, s. 1-18.	
4.	Maciej P. Koźuch, Wojciech Lorenc. Stress concentration factors of shear connection by composite dowels with MCL shape. Archives of Civil and Mechanical Engineering. 2019, vol. 19, nr 1, s. 32-46.	
5.	Günter Seidl*, Wojciech Lorenc. Innovative Konstruktionen im Verbundbrückenbau mit Verbunddübelleisten. Stahlbau. 2018, Jg. 87, H. 6, s. 547-554.	
6.	Wojciech Lorenc The model for a general composite section resulting from the introduction of composite dowels. Steel Construction. 2017, vol. 10, nr 2, s. 154-167.	
7.	Wojciech Lorenc, Non-linear behaviour of steel dowels in shear connections with composite dowels: design models and approach using finite elements. Steel Construction. 2016, vol. 9, nr 2, s. 98-106.	
8.	Wojciech Lorenc The design concept for the steel part of a composite dowel shear connection. Steel Construction. 2016, vol. 9, nr 2, s. 89-97.	
9.	Wojciech Lorenc, Maciej P. Koźuch, Sławomir Rowiński.	



	The behaviour of puzzle-shaped composite dowels. Pt. 2, Theoretical investigations. Journal of Constructional Steel Research. 2014, vol. 101, s. 500-518.	
10.	Wojciech Lorenc, Maciej P. Kożuch, Sławomir Rowiński. The behaviour of puzzle-shaped composite dowels. Pt. 1, Experimental study. Journal of Constructional Steel Research. 2014, vol. 101, s. 482-499.	

### 3. Projects and grants

List of the most important 5 projects/grants with basic description including: title, source(s) of funding, name of the call, role in the project (e.g., principal investigator).

1.	Role in the project (e.g., principal investigator, work package leader, etc.)	Principal Investigator
	Project title	Prefabricated Enduring Composite Beams based on Innovative Shear Transmission. PrECo-Beam. RFSR-CT-2006-00030
	Sources of funding	European Commission
	Name of the call	RFCS
	Implementation period	2006-2009
2.	Role in the project (e.g., principal investigator, work package leader, etc.)	Principal Investigator
	Project title	[Composite bridges with prefabricated decks. ELEM, RFSR-CT-2008-00039
	Sources of funding	European Commission
	Name of the call	RFCS
	Implementation period	2008-2011
3.	Role in the project (e.g., principal investigator, work package leader, etc.)	Principal Investigator
	Project title	Demonstration of ECONomical bridge solutions based on innovative composite dowels and integrated abutments. ECOBRIDGE, RFSP-CT-2010-00024
	Sources of funding	European Commission
	Name of the call	RFCS
	Implementation period	2010-2013
4.	Role in the project (e.g., principal investigator, work package leader, etc.)	Principal Investigator
	Project title	Prefabricated Enduring Composite Beams based on innovative Shear Transmission. Preco+, RFS-P2-10077
	Sources of funding	European Commission
	Name of the call	RFCS
	Implementation period	2011-2012
5.	Role in the project (e.g., principal investigator, work package leader, etc.)	Leader of the Scientific Team
	Project title	[Nośność zmęczeniowa ciągłych łączników otwartych. NN506250237, 2502/B/T02/2009/37



Sources of funding	Ministerstwa Nauki i Szkolnictwa Wyższego
Name of the call	Rządowy projekt badawczy
Implementation period	2009-2011

#### 4. International experience

*Brief description of international cooperation and experience (e.g., research stays, cooperation with foreign entities, coordination or participation in international projects or programmes, keynote speeches and presentations delivered at renowned international conferences, visiting professor stays, invited lectures).*

No.	Description	Year(s)
1.	EU countries: constant cooperation since 2005 (R&D RFCS projects, industrial projects, development of Eurocodes, invited lectures). 2 one month visiting professor stays in Japan (many invited lectures for students, companies, institutions etc.) Hosting Japanese scholars and students in Poland.	2005-present

#### 5. Experience in teaching doctoral students

*Brief description of experience in teaching doctoral students (e.g., courses in doctoral schools and PhD studies, summer/winter schools for doctoral students, tutorials, trainings, etc.).*

No.	Description	Year(s)
1.	Advanced steel-concrete composite constructions	2024

#### 6. List of supervised doctoral students

*List of all supervised doctoral students that defended the PhD including: name of the student, dissertation title, year of awarding PhD.*

No.	Name, surname	Dissertation title	Year of awarding PhD
1.	Maciej Kożuch	Nośność stalowych łączników otwartych typu MCL w belkach zespolonych stalowo – betonowych	2013
2.	Piotr Koziół	Nośność łączników stalowych w strefie połączenia elementu zespolonego z elementem betonowym	2018
3.	Krzysztof Marcinczak	Zmiana właściwości wytrzymałościowych stali i układu naprężeń własnych po formowaniu na zimno dwuteowych kształtowników walcowanych ze stali S460M	2021
4.	Błażej Bartoszek	Stany graniczne belek o przekroju hybrydowych stalowo betonowym	2024

#### 7. Prizes and awards

*The most important national and international prizes and awards related to research, development and teaching activities.*

No.	Description	Year
-----	-------------	------



1.	Specjalna Nagroda Naukowa im. Igora Kisiela za rok 2022.	2022
2.	Wyróżnienie w konkursie TESLA PRIZE 2023 (wspólnie z dr. inż. Maciejem Koźuchem oraz dr. inż. Krzysztofem Marcinczakiem) za „Nowe rozwiązania konstrukcji stalowych i zespolonych zastosowane na moście przez Wisłę w Krakowie: pierwszym na świecie moście kolejowym typu network arch z giętych na zimno dwuteowników walcowanych”.	2023

## 8. Other significant achievements

*Information on other significant achievements related to research, development and teaching activities.*