



ACADEMIC TEACHER PROFESSIONAL EXPERIENCE

DOCTORAL SCHOOL OF WROCLAW UNIVERSITY OF SCIENCE AND TECHNOLOGY

1. Basic information

Name, surname:	Romuald Tarczewski
Grade / Title:	prof. dr hab inż. / Prof. PhD, DSc. Eng.
Scientific discipline	architektura i urbanistyka / architecture and urban planning
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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.	Tarczewski R., Structural systems in the mind of an architect – cognition through a non-linear teaching model. World Transactions on Engineering and Technology Education. 2021, vol. 19, No. 4, p. 358-363, ISSN 1446-2257.	2021
2.	Tarczewski R., Constructing Architecture. Remarks on the materialization of the architectural form (monograph in Polish). Oficyna Wydawnicza Politechniki Wrocławskiej, Wrocław 2019, ISBN 978-83-7493-075-8.	2019
3.	Jabłońska J., Trocka-Leszczyńska E., Tarczewski R., Sound and form in public spaces of contemporary hotels. In: Charytonowicz J. and Falcão Ch. (eds) Advances in Human Factors, Sustainable Urban Planning and Infrastructure. Proceedings of the AHFE 2018 International Conference on Human Factors, Sustainable Urban Planning and Infrastructure, July 21-25, 2018, Orlando, Florida, USA. Cham : Springer, cop. 2019. s. 216-225. (Advances in Intelligent Systems and Computing, ISSN 2194-5357; vol. 788).	2019
4.	Tarczewski R., Świąciak M., Relation between optimal lattice shell shape and elastic curve. In: Pietraszkiewicz W. and Witkowski W. (eds) Shell structures: theory and applications. CRC Press/Balkema, 2018. p. 569-572, ISBN: 978-1-138-05045-7.	2018
5.	Gellin S., Tarczewski R., Point force on inflated cushions with inflection points. In: Mueller C., Adriaenssens S. (eds) Creativity in Structural Design. Proceedings of the IASS Symposium 2018, July 16-20, 2018, MIT, Boston, USA. Madrid, International Association for Shell and Spatial Structures (IASS), 2018. p. 1-7, , ISSN 2518-6582.	2018
6.	Tarczewski R., Robert Le Ricolais and Lech Tomaszewski: little-known records of engineering inspiration. In: Bögle A., Grohmann M. (eds) Interfaces: architecture.engineering.science. Proceedings of the IASS Annual	2017



	Symposium 2017, 25-28th September 2017, Hamburg, Germany. Madrid, International Association for Shell and Spatial Structures (IASS), 2017. p. 1-8, ISSN 2518-6582.	
7.	Trocka-Leszczyńska E., Tarczewski R., Jabłońska J., Trends towards exaggeration as a form of the Zipf's law violation in contemporary public buildings design. In: Proceedings of the 4th International Multidisciplinary Scientific Conference on Social Sciences and Arts, SGEM 2017, Albena, Bulgaria, 24-30 August, 2017. Book 5, Urban planning, architecture and design. Vol. 2, Urban studies, planning and development, architecture and design. Sofia, STEF92 Technology, 2017. p. 837-844, ISBN: 978-619-7408-25-6, http://dx.doi.org/10.5593/SGEMSOCIAL2017/52/S21.101 .	2017
8.	Tarczewski R., Structural strengthening of the adobe ceremonial building in North Sudan. In: van Balen K. and Verstrynghe E. (eds) Structural analysis of historical constructions: anamnesis, diagnosis, therapy, controls. Proceedings of the 10th International Conference on Structural Analysis of Historical Constructions, SAHC 2016, Leuven, Belgium, 13-15 September 2016, CRC Press/Balkema, Leiden 2016, p. 994-999, ISBN: 978-1-138-02951-4, (Proceedings and Monographs in Engineering, Water and Earth Sciences) http://dx.doi.org/10.1201/9781315616995-147 .	2016
9.	Tarczewski R., Manifestations of the Constructal Law in architecture and structural engineering. In: Proceedings of the 3rd International Multidisciplinary Scientific Conference on Social Sciences and Arts, SGEM 2016, Vienna, Austria, 6-9 April, 2016. Book 4, Arts, performing arts, architecture and design. Vol. 2, Architecture and design. Vienna, STEF92 Technology, 2016. p. 383-390, ISBN: 978-619-7105-54-4, SGEM International Multidisciplinary Scientific Conferences on Social Sciences and Arts ISSN 2367-5659.	2016
10.	Tarczewski R., Motro R., The beauty of technical thought in architecture – the lifework of Stéphane Du Chateau. International Journal of Space Structures. 2015, vol. 30, No. 3/4, p. 203-220, ISSN 0266-3511, http://dx.doi.org/10.1260/0266-3511.30.3-4.203 .	2015

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 for WUST
	Project title	Advanced management system for building constructions and civil works projects
	Sources of funding	Eureka Program
	Name of the call	EU 927 ZIAVA
	Implementation period	1994-1998
2.	Role in the project (e.g., principal investigator, work package leader, etc.)	Member of the Management Committee and Financial Rapporteur
	Project title	Novel structural skins: Improving sustainability and efficiency through new structural textile materials and designs



	Sources of funding	European Cooperation in the field of Scientific and Technical Research „COST”
	Name of the call	TD1303
	Implementation period	2013-2017
3.	Role in the project (e.g., principal investigator, work package leader, etc.)	Principal Investigator for WUST
	Project title	ArAc- Multibook of Architectural Acoustics
	Sources of funding	Lifelong Learning Programme Leonardo da Vinci Transfer of Innovation
	Name of the call	2013-1-PL1-LEO05-37588
	Implementation period	2013-2015

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.	Member of the ISCARSAH – International Scientific Committee on the Analysis and Restoration of Structures of Architectural Heritage	since 2019
2.	Member of the International Association for Shell and Spatial Structures, IASS (Executive Council and Advisory Board of the)	since 1996
3.	Co-chairman of Working Group WG17 – Historical Spatial Structures, under the International Association for Shell and Spatial Structures (IASS)	since 2017
4.	Member of the TensiNet Association, a European association of researchers, designers and contractors of membrane structures (working group Pneumatic Structures)	since 2005
5.	Member of the Editorial Committee of the „Journal of the IASS”	since 2020
6.	Invited plenary lecture „Constructing architecture – On the materialization of the architectural form”, SEWC 2017 Structural Engineers World Congress, Seoul, 18-21.10.2023	2023
7.	Plenary lecture „Point Force on Inflated Cushions with Inflection Points”, IASS 2018, International Association for Shell and Spatial Structures – Annual Symposium, Boston, 16-20.07.2018	2018
8.	Plenary lecture „Extension of elastica methodology to inflated cushions under applied transverse loading”, IASS 2017, International Association for Shell and Spatial Structures – Annual Symposium, Hamburg, 25-28.09.2017	2017
9.	Invited plenary lecture „The creative clash – synergy of form and structure in concrete”, SEWC 2017 Structural Engineers World Congress India Symp., WHY CONCRETE. Architecture-Structure-Interaction for Sustainable Built Environment, Bangalore, 13-15.07.2017	2017
10.	Plenary lecture „Lightweight modular membrane structures for various applications”, ICSA2016, 3rd International Conference on Structures and Architecture, Guimarães, Portugal, 27-29.07.2016	2016
11.	Three one-month internships at the Norwegian Council for Construction Standardization and Ziolk & Co A/S in Oslo on issues related to information classification systems in construction, databases collecting information in the investment process, and information exchange management – research	1993, 1994, 1995



	scholarships awarded to the Ministry of Foreign Affairs of the Kingdom of Norway	
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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.	Structural Architecture	2016-2019
2.	Recent research trends in architecture and urban planning – Shaping of doubly curved architectural covers	2021-2023

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.	Michał Świąciak	Methods for shaping and performing free forms in architecture. A bottom-up approach.	2019
2.	Agnieszka Kornak	Przekrycia cerkiewne – propozycja systemu klasyfikacji nieortogonalnych form na przykładzie wybranych obiektów z obszaru województwa podkarpackiego	2021
3.	Krzysztof Ałykow	Analiza formy i pracy statycznej konstrukcji drewnianych więźb dachowych wybranych kościołów ewangelickich Dolnego Śląska	2021
4.	Bartosz Adamiczka	Proces twórczego rozwiązywania problemów jako strategia projektowania formy architektonicznej w kontekście zjawiska percepcji.	2022
5.	Mariusz Sobczak	Wpływ nowoczesnych metod inżynierii bezpieczeństwa pożarowego na projektowanie architektoniczne na przykładzie obiektów przedszkolnych oraz użyteczności publicznej	2023
6.	Tomasz Broma	Model Warstw Materialnych jako metoda analizy i projektowania kształtu formy strukturalnej obiektu architektonicznego	2023

7. Prizes and awards

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

No.	Description	Year
1.	2nd Degree Individual Award of the Minister of Science and Higher Education	2015



2.	Taiwan Prominent Inventor League Award at the 65th International Fair "Ideas, Inventions, New Products IENA 2013" in Jena, for the design of innovative acoustic screens	2013
3.	Gold Medal at the 16th International Salon of Inventions and Innovative Technologies "ARCHIMEDES 2013" in Moscow, for the design of innovative acoustic screens	2013
4.	Honorable mention in the Engineer of the Year competition (Designer category) of the Lower Silesian District Chamber of Construction Engineers, for the design of the Wrocław Motorway Bypass (team award)	2011
5.	Gold Badge of the Wrocław University of Science and Technology	2007

8. Other significant achievements

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

1. Two patents granted (collective)
2. Several dozen completed structural designs of facilities with various functions, sizes, and levels of complexity – large industrial facilities, housing estates, technical infrastructure facilities, historical facilities, public utility facilities, as well as opinions and technical expertises.