Dawid Taler

Academic degrees : Prof. Dawid Taler, Ph.D., Eng.

Position : Full profesor

The field of Engineering and Technology

Discipline Environmental Engineering, Mining and Energy

Positions held at the University:

1. Head of the Department of Thermal Processes, Air Protection and Waste Disposal at the Faculty of Environmental Engineering and Energy, Krakow University of Technology (from 2018 to the present).

Membership in professional and academic organizations :

1. Member of the Thermodynamics and Combustion Committee of the Polish Academy of Sciences.
2. Chairman of the Thermodynamics Section in the Thermodynamics and Combustion Committee of the Polish Academy of Sciences PAN (from 2020 to 2024 and from 2024 to 2028).
3. Co-founder and member of the Association for the Education of Specialists in the Construction of Power Engineering Machinery and Equipment.

Scientific achievements :

Prof. Dawid Taler, Ph.D., Eng., is a recognized expert in the fields of heating, thermal engineering, and energy.
He is a graduate from the Faculty of Environmental Engineering at the Krakow University of Technology.
He obtained his Ph.D. and postdoctoral degree (Habilitation) at the AGH University of Science and Technology in Krakow.
He was appointed professor at the Krakow University of Technology.
He currently heads the Department of Thermal Processes, Air Protection, and Waste Utilization at the Faculty of Environmental Engineering and Energy at the Krakow University of Technology. He has a long-standing, globally recognized research focus on advanced issues in heat transfer, thermodynamics, and improving the efficiency of Industrial Power Plant Equipment. His research output include:

1. Number of supervised Doctors of Technical Sciences: 13 (11 PhDs at the Krakow University of Technology and 2 at AGH University of Science and Technology in Krakow),
2. Since 2020 to the present in the TOP 2% ranking of the most cited scientists in the world according to Elsevier and Stanford University,
3. Hirsch Index according to Scopus: 33, Number of citations: 3377,
4. Hirsch Index according to Web of Science: 31, Number of citations: 2792,
5. Scientific output consisting of over 485 publications, including 147 indexed in the Web of Science database. Total Impact Factor of publications over 600,
6. Author or co-author of 7 scientific books (including those published by Springer, Nova Science and by Wydawnictwo Naukowo Techniczne),
7. Author of 30 chapters in renowned scientific monographs,
8. Co-inventor of 4 patents,
9. Member of scientific committees of prestigious international conferences: Contemporary Energy Technologies and Devices; International Conference on Computational Heat, Mass and Momentum Transfer; International Conference on Cleaner Energy Transition; Energy Fuel and Environment
10. Honored with 11 awards of the Rector of the Krakow University of Technology, decorated with the honorary badge of the Krakow University of Technology, the "Outstanding research and academic employee (LEADER)" prize winner at the Faculty of Environmental Engineering and Energy in 2022 and 2025.

Professional qualifications / Foreign language knowledge

Language skills: Excellent knowledge of English, very good knowledge of German, passive knowledge of Russian

Research field :

1. Thermal engineering, thermodynamics, thermal power engineering and heat transfer engineering,
2. Transient states of heat exchangers – analytical and numerical modeling and experimental testing of tubular cross-flow heat exchangers (including finned ones),
3. Inverse heat transfer problems and their application in the control of heat exchanger operation,
4. On-line monitoring of boiler efficiency and the degree of fouling of heating surfaces,
5. Measurements of heat flux and measurements of the temperature of a flowing fluid in a transient state,
6. Industrial Power Plant Equipment,
7. Automation of heating, air conditioning and ventilation devices,
8. Combined heat and power plants, power plants and improvement of the flexibility of steam boilers,
9. Hybrid solar systems and electric water heating systems in buildings.

Address

Krakow University of Technology, Faculty of Environmental Engineering and Energy
Address: ul. Warszawska 24, 31-155 Krakow, Poland, phone: +48 12 628 30 26, e-mail: dawid.taler@pk.edu.pl

Useful links :

[Researcher profile – Dawid Taler – Cracow University of Technology]