

Roman Misiak, Ph.D, P.E.
Civil Engineer Certified in Specialty
Engineering Structures

About the Author

EDUCATION AND TITLES

-Civil Engineer Certified in Specialty Engineering Structures, First degree in specialization of environmental structures, granted by Ministry of Building in Warsaw, 1989, Poland

-Ph.D. doctorate degree in Engineering Sciences, Warsaw Institute of Building Technology, Warsaw, 1973, Poland, received after the presentation of doctorate treatise about the circular reinforced concrete tank with vertical stiffening ribs.

-PE, received Professional Engineer License in Civil Engineering, 1959

-M.SC, bachelor's and master's degree as Structural Engineer, Technical University of Warsaw, 1956, Poland

PROFESSIONAL EXPERIENCE

I have more than 45 years of experience in research, development, design and practical applications of wastewater treatment plants.

Since retired – to mid 2000

Designed work on the contracts for "PROCHEM" and "BIPROWOD" as:

Sewage Treatment Plant town of Swinoujscie, Poland

Sewage Treatment Plant "Kapusciska", city of Bydgoszcz, Poland

PROSAN, Water and Sewage Economics, Consulting Firm, 1975–1996,

Project Manager,

Author of "The Catalog of precast water tanks" published in 1980

Designed many wastewater liquid tanks projects, often based on "The Catalog".

Designed well known projects in Poland:

Cellulose-paper Works, Kwidzyn,

Sendzimir Metallurgy Plant of Ironworks, Cracow
Skolwin Paper Mill, Stettin
and in Bulgaria
Sewage Treatment Plant, town Pamporowo, (placed on steep mountain side,
in peaty soil).

Patented "Standardized Wall Connection in Precast, Reinforced Concrete
Tanks", 1981

Computer programming:

Wrote algorithms for structural computer programs as follows:

- calculations of walls of underground pumping stations (base shaped as a rectangle or circle).
- calculations of circular tanks on two-parameter Wlasow's elastic subsoil (tank maybe constructed as monolithic or precast)

STOLICA, Municipal Consulting Firm, 1972 - 1975, Project Manager
initiated the results of my own research in Institute of Building Technology,
continued research about the precast, non-prestressed, reinforced concrete
liquid tanks.

WARSAW INSTITUTE OF BUILDING TECHNOLOGY, 1967-1971,
Research Engineer,
Did research in precast liquid tanks, precast elements of industrial buildings,
and prestressing steel for prestressed elements – base for interims in
Specifications in 1968 and the changes to Specifications in 1971 (in force till
present)

**BIPROWOD, Search and Design Consultant for Water and Sewage
Economics for Chemical Industry, 1961-1967, Senior Project Engineer,**
Designed water tanks, canals, pumping and filtration stations for water and
sewage treatment plants,

BEZETPE, Enterprise for Design and Building Prefabrication Plants,
1959-1961, Project Engineer for structural design of industrial buildings

Construction Site of the building **Military Technical Academy,**
1956-1959, Assistant Manager on construction site

PUBLICATIONS

See **Abstract**