

# Stephen W. Meier, P.E., S.E.

*Managing Principal*

**Tank Industry Consultants**



## Education

Bachelor of Science in Civil  
Engineering - Rose-Hulman  
Institute of Technology  
Master of Science Civil  
Engineering - Cornell  
University

## Registrations

Registered Professional Engineer  
28 States & D.C.  
Registered Structural Engineer  
California, Illinois, Nevada,  
Oregon, & Washington  
Structural Engineering  
Certification Board (SECB)  
Certification in the Practice of  
Structural Engineering  
Certification No. 1997-0306

## Professional Affiliations

### American Water Works

#### Association:

Chair, Steel Tank Committee  
• Committee on Welded Steel  
Tanks D170 Composite  
Elevated Water Tank  
Committee

### STI/Steel Plate Fabricators

#### Association:

• Subcommittee on Concrete  
Pedestal Tanks and Seminar  
Subcommittee

### American Concrete Institute

• Committee 371 on Concrete  
Pedestal Tanks  
• Committee 376 Concrete  
Structures for Refrigerated  
Liquefied Gas Containment

### National Earthquake Hazards

#### Reduction Program

• Past Chair, Technical  
Subcommittee 13 -  
Nonbuilding Structures

### Structural Engineering

#### Association of Illinois

### Structural Engineering

#### Association of California

## Earthquake Engineering Research Institute

Mr. Steve Meier is noted as one of the foremost structural engineering experts for the design, construction and rehabilitation of concrete and steel structures for storage systems, with specialized expertise in seismic design. He has served as structural engineer in responsible charge for numerous water storage, granular and cryogenic storage tank construction projects, as well as seismic design and retrofit projects. His design and seismic expertise is especially invaluable during the evaluation, design, specification, and construction phases of tank construction and seismic retrofits. Mr. Meier was the primary author of the revisions to the API and AWWA tank standards for seismic loads.

Prior to joining Tank Industry Consultants, Mr. Meier spent more than twenty-two years with one of the nation's leading tank and vessel constructors. His professional emphasis during this time was on steel tanks, prestressed concrete containments, composite elevated tanks, cryogenic structures, structural steel frames, and abnormal loading conditions due to blast, projectile impact, thermal gradients, and seismic events. He was responsible for stress analysis and foundation design, and served on several national code committees. He provided extensive consulting to staff engineers as Senior Principal Structural Engineer with specialized expertise in seismic and structural design. In this capacity, he developed an innovative storage concept for liquefied natural gas storage facilities in a remote and environmentally difficult region in Norway, and led a group of professional engineers and planners in the design of a prestressed secondary containment and inner tank storage system in Malaysia.

One of the unique projects under Mr. Meier's supervision was the "Earthoid" water storage tank built in Germantown, Maryland. Mr. Meier was structural engineer on this giant "globe," designed and painted to resemble the astronauts' "bird's eye view" of the earth. This fully functional ornamental tank is not only a civic landmark for area residents, but is also heralded as a landmark project in the water storage and steel plate structures industries.

Mr. Meier also served as the Principal Structural Engineer for the Superconducting Magnetic Energy Storage Project sponsored by the

Defense Nuclear Agency for  
which he holds two patents.  
Mr. Meier has been published  
by numerous industry  
organizations.