

SIDNEY M. JOHNSON, PE – EXECUTIVE ENGINEER

EDUCATION: Bachelor's and Master's Degrees in Civil Engineering – Yale University

REGISTRATIONS: Professional Engineer – New York, New Jersey and Connecticut

EXPERIENCE: Executive Engineer: Envar Services, Inc. consulting engineers.
In charge of all waterfront design activities of the firm.

Mr. Johnson is Manager of Marine Engineering and Structural Design at Envar Services. He is responsible for all structural engineering and construction related to marine structures. Mr. Johnson has had over 40 years of experience in the development of advanced design and value engineering of both marine structures and general foundations. He is the author of two internationally respected textbooks on structural design and repair (see below). A significant portion of his activities has been structural analysis of both existing and failed structures. His unique experience has resulted in substantial cost reduction of prior designs which has yielded substantial savings to clients. Projects have included:

- ◆ Development of breasting platform design that provides both structural stability and greater flexibility in utilization of barge docks – Stuyvesant Oil Terminal, Bronx, NY
- ◆ Development of solid face wave screen and bulkhead rehabilitation – Municipal Marina, Elizabeth, NJ
- ◆ Design of Port Imperial New York Waterway Intermodal Ferry Terminal – Weehawken, NJ
- ◆ Soils analysis and specialized design of pile foundations for storage tank structures – Kinder Morgan, Perth Amboy, NJ
- ◆ Design and reconstruction of seawall and tank foundations – Amerada Hess, Brooklyn, NY
- ◆ New Coal Transshipment Facility – Kwangyang Bay, Korea
- ◆ Plans and specifications for dredging operations including preparation of disposal site (dike design and decanting facilities) – Jari River, Amazon Basin, Brazil
- ◆ Plans and specifications for dredging operation, upland disposal of excavated material and slope protection for margins of deepened basin – Staten Island, NY
- ◆ Plans and specifications for dredging operation including preparation of disposal site (dikes, decanting facilities, pipe bridges and discharge flumes – Carnegie Lake, Princeton, NJ
- ◆ Rehabilitation of Piers 4A and G – Philadelphia Naval Shipyard
- ◆ Rehabilitation of Drydock No. 4 – Philadelphia Naval Shipyard
- ◆ Design of Pier Alpha – Charleston Naval Shipyard
- ◆ Repair Fueling Pier No. 12 – US Naval Air Station Annex, Bermuda
- ◆ Design of New Wharf for Westvaco Plant – Charleston, SC
- ◆ Rehabilitation of Beachfront Bulkhead – Folly Beach, SC
- ◆ Strengthening of Columbus Street and Union Street Wharves – Charleston, SC
- ◆ Bulkheading for Windmill Harbor – Hilton Head Island, GA
- ◆ Rehabilitation of Seawall at Queensbridge Park - New York City, NY
- ◆ Report on Innovative Design Concepts for the US Navy

- ◆ Two general-cargo berths and one POL berth for new port on undeveloped coast – Port at Sharma, Red Sea Coast of Saudi Arabia
- ◆ Three general cargo berths and one dedicated cement-unloading berth for new port on undeveloped coast – Port at Ras al Mishab, Arabian Gulf
- ◆ Service Pier for Trident Submarine Base – Bangor, WA
- ◆ Two Container Ship Berths, Norfolk International Terminals, Norfolk, VA
- ◆ Pier 94 on Hudson River – New York City, NY
- ◆ Cruise Ship Pier at Frederikstad – US Virgin Islands
- ◆ Destroyer Berthing Pier – Elefsis, Greece
- ◆ Carrier Piers – Norfolk, VA and Roosevelt Roads, PR
- ◆ Ammunition Depot Pier – Yorktown, VA
- ◆ Small Craft Harbor – Palmas Del Mar, PR
- ◆ Cargo Berth and Bulk Unloading Facility – Jari River, Munguba, Brazil
- ◆ Covered Barge Berth – Yabucoa, PR

- AWARDS:
1. 1979 “Grand Conceptor” Award by American Consulting Engineers Council for design of the drydocking facilities on the Jari Project, Brazil: the premier national award
 2. First prize in various categories in annual competition of New York Association of Consulting Engineers – 3 occasions

- PUBLICATIONS:
1. Textbooks:
 - a. “Deterioration, Maintenance and Repair of Structures”: McGraw-Hill Book Co.
 - b. “Design of Foundations for Buildings”: McGraw-Hill Book Co. (with T. C. Kavanagh)
 - c. “Structural and Foundation Failures - A Case Book”: McGraw-Hill Book Co. (with B. LaPatner)
 2. 12 Articles in Professional Journals
 3. U.S. Navy (NAVFAC) Design Manuals:
 - a. DM2 – Structural Engineering
 - b. DM25 – Waterfront Operational Facilities
 - c. DM26 – Coastal Engineering
 - d. DM38 – Weight-Handling Equipment
 4. Building Code:
 - a. Structural and foundation provisions of current Building Code of City of New York
 - b. Waterfront Code for City of New York