



EDUCATION

MBA with Honors, Civil Engineering
Boston University, 1995
B.S., Civil Engineering (Structures,
Materials, and Construction)
Purdue University, 1982

REGISTRATIONS

Michigan, Indiana

PROFESSIONAL ASSOCIATIONS

International Concrete Repair Institute
American Concrete Institute (Voting
Member
of various committees)
ASTM International
National Association of Corrosion
Engineers

PUBLICATIONS

Tourney, P., eds. Setzer, M.J. and Palecki, S.
(2004). Service life Prediction of High
Performance Concrete Mixture Subjected
to Chloride Penetration. *Proceedings of
the International Conference on Durability
of HPC and Final Workshop of Conlife*
(Essen, Germany), AEDIFICATIO Publishers
(Freiburg, Germany), 19-36
Tourney, P. (2003). Predicting the
Microstructural Degradation of Concrete in a
Marine Environment.
ACI Special Publication, SP-212, 1127-1153.
Tourney, P. (1998). Use of the
DuraModel® for the Design of Cost
Effective Concrete Structures. *Proceedings
International Conference on Corrosion and
Rehabilitation of Reinforced Concrete
Structures*, Publication
No. FHWA-SA-99-014, US Department of
Transportation, Federal Highway
Administration.

Paul has been involved with the construction industry for the past 28 years. His design experiences have incorporated drainage/ sewer/water works, cold-formed/standard structural steel, resin/fiber composites, concrete science, corrosion science, and advanced construction product development.

Paul has extensive experience serving as a specialist in steel corrosion in concrete. He has evaluated concrete structures exposed to aggressive deicing salt, seawater, and contaminated groundwater. He has been involved with the full range of both destructive and nondestructive testing procedures on existing structures. These structures have been parking ramps, highway bridges, marine piers/wharfs, and building facades located in North America, Asia, Australia, Europe, and the Middle East. His dedication to corrosion protection resulted in the election as Chairman of the Boston Chapter of the National Association of Corrosion Engineers in 1996.

He has been extensively involved in laboratory and field evaluation of technologies to prevent or mitigate corrosion activities through proactive new construction methods or innovative restoration processes. Paul has experience in providing corrosion protection and structural solutions through the use of advanced concrete designs/ details, coatings, chemical treatments, and composites. Durable concrete design has been his major focus over the last twenty-five years.

It was under Mr. Tourney that the Unified Facilities Guide Specifications (USFG-03 31 29) for marine concrete was developed for NAVFAC.

PROJECT EXPERIENCE

U.S. Navy Fuel Pier D, Norfolk, Virginia

Conducted concrete mix design assessments for new Navy performance specification conducted all QC testing for precast and CIP concrete for durability concerns.

Performance of CenterStar Concrete Additive, Santa Rosa Beach, FL

TCG provided proof of concept data for the use of CenterStar additive as a durability enhancing cement replacement. Using various mixture proportions, several test specimens were created and tested for plastic concrete properties, compressive strength, shrinkage, and permeability reduction. Results were analyzed and compared to several other cementitious materials.

Accelerated ASR Testing, Bessemer City, NC

TCG has access to several extremely reactive ASR aggregates and worked independently with two companies to determine the performance advantages of using varied addition rates of either metakaolin or silica fume in combination with different lithium nitrate dosages to mitigate ASR.

Kosciuszko Bridge, Brooklyn-Queens, NY

Durability modeling and service life predictions using advanced computer software for the design of the concrete elements. Created corrosion protection plan using a holistic and probabilistic analysis approach to ensure the 100-year service life.

Goethals Bridge Replacement, Port Authority of New York & New Jersey

Durability engineering and design for performance-based specifications for concrete elements to last 150 years; pre-qualification testing on all the concrete mixes.