

Jonah C. Kurth | Senior Associate



EDUCATION

- University of Michigan
 - Bachelor of Science in Engineering, Civil Engineering, 2006
- Georgia Institute of Technology
 - Master of Science, Civil Engineering, 2008

PRACTICE AREAS

- Bridges and Civil Infrastructure
- Corrosion Assessment
- Repair and Rehabilitation Design
- Laboratory Evaluations
- Precast/Prestressed Concrete
- Service Life Modeling
- Nondestructive Evaluation

REGISTRATIONS

- Professional Engineer in IL
- Structural Engineer in IL

PROFESSIONAL AFFILIATIONS

- American Concrete Institute (ACI)
- NACE International

CONTACT

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EXPERIENCE

Jonah Kurth has more than eight years of experience in condition assessment, field investigation, repair and rehabilitation design, and construction period services, particularly for reinforced concrete structures. He also conducts materials evaluation and testing with a focus on concrete durability, corrosion, and service life modeling. Mr. Kurth's project experience includes various types of large civil structures, high-rise buildings, parking garages, and bridges.

Mr. Kurth routinely uses hands-on and nondestructive testing techniques for evaluation of concrete deterioration and reinforcement corrosion.

REPRESENTATIVE PROJECTS

Bridges and Civil Infrastructure

- Edwin I. Hatch Nuclear Plant - Baxley, GA: Structural monitoring program inspections for Maintenance Rule & License Renewal commitments
- Port of Houston Authority - Houston, TX: Condition assessment and repair recommendations for multiple wharf structures at the Turning Basin and Manchester Terminals
- Palo Verde Nuclear Generating Station Water Reclamation Facility - Tonopah, AZ: Evaluation, service life modeling, and repair development for thirty-year life extension of trickling filters, clarifiers, thickeners and pumping station structures
- Seabrook Station - Seabrook, NH: Condition assessment of concrete walls in equipment vault
- Metropolitan Wastewater Reclamation District - Cook County, IL: Evaluation of reinforced concrete siphons exhibiting hydrogen sulfide-related deterioration

Corrosion Assessment

- Vehicle Assembly Building - Kennedy Space Center, FL: Corrosion evaluation of elevated concrete slabs, service life modeling, and repair development
- Union Depot - St. Paul, MN: Evaluation and repair development for historic 250,000-square-foot elevated concrete train deck exhibiting carbonation-induced corrosion

- Iowa Department of Transportation: Condition survey, corrosion assessment, and service life modeling of various concrete bridge decks
- Indiana Toll Road Bridges - IN: Evaluation of concrete bridge elements, corrosion service life modeling, and rehabilitation/repair design

Repair and Rehabilitation Design

- Franklin Avenue Bridge - Minneapolis, MN: Investigation and repair design for historic concrete arch bridge over Mississippi River
- Multiple High-Rise Residential Structures - Chicago, IL: Repair design and construction period services for structural concrete repairs, deck membranes, building coatings, and durability enhancements

Laboratory Evaluations

- ASTM Standards Material Testing: Laboratory testing for compliance with various epoxy-coated reinforcing and stainless steel material standards
- NCHRP Project 04-33: Procedures for Testing and Evaluating Detectable Warning Systems

Precast/Prestressed Concrete

- Corporate Headquarters Parking Garage - Milwaukee, WI: Structural repairs and construction period services for unbonded post-tensioned garage with deicing salt corrosion
- Hotel Parking Garage - Santa Monica, CA: Structural evaluation of unbonded post-tensioned garage with corrosion-induced deterioration
- City of Evanston Parking Garages - IL: Evaluation and repair design for post-tensioned garages

TECHNICAL COMMITTEES

- ACI 349 - Concrete Nuclear Structures
- NACE - TG 504, Inspection Methods for Corrosion Evaluation of Prestressed Concrete Structures, chair