



Presents:

2020 Boot Camp & Trade Show Back to Basics: Concrete Repair 101

Tuesday, March 31, 2020 | 8:00 a.m.-4:30 p.m.
Granite Links | 100 Quarry Hill Dr., Quincy MA

OVERVIEW

This event brings together engineers, architects, contractors, and vendors for a unique opportunity to enhance their knowledge and grow their business. The day will include a series of seminars that dive deep into each of the four steps of a typical concrete repair, as well as opportunities to meet with vendors and discover their offerings.

Welcome by ICRI-NE President

Peder Hals | Wiss Janney & Elstner Associates, Inc.

Welcome by Special Guest 2020 ICRI National President-Elect

Elena Kessi, President | Aquafin Inc.

Keynote Address: CONCRETE REPAIR INDUSTRY TRENDS

Greggory Cohen, Senior Principal and National Practice Leader for Structural Repair & Rehabilitation | Simpson Gumpertz & Heger Inc.

Technical Topics & Presenters:

DEMOLITION

Don Kearney, Principal | Contracting Specialists Inc.
Todd Neil, PE | Thornton Tomasetti

SURFACE PREPARATION

Peter Tarara, PE, Assoc. Principal | Wiss, Janney, Elstner Associates, Inc.
Justin Macri, Project Manager | P.J. Spillane Company

MATERIALS

Craig Barnes, PE, SECB | CBI Consulting, LLC
Jeff Ohler, Senior Product Manager | Euclid Chemical

PLACEMENT

Jennifer Grubb, Senior Project Manager | Simpson Gumpertz & Heger
Paul Capobianco, President | Alpha Weatherproofing Corp.

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EVENT SCHEDULE

ICRI-NE 2020 Boot Camp & Trade Show

Back to Basics: Concrete Repair 101

8:00 AM to 8:45 AM 45 Mins.	Breakfast / Socialize / Network & Trade Show Vendors
8:45 AM to 9:30 AM 45 Mins.	Welcome by ICRI-NE Chapter President Welcome by 2020 ICRI National President-Elect Keynote Presentation: Repair Industry Trends
15 Minute Break	Break & Trade Show Networking
9:45 AM to 10:45 AM 60 Mins.	Technical Presentation 1: DEMOLITION
15 Minute Break	Break & Trade Show Networking
11:00 AM to 12:00 PM 60 Mins.	Technical Presentation 2: SURFACE PREPARATION
12:00 PM to 1:15 PM 75 Mins.	Lunch & Trade Show Vendors
1:15 PM to 2:15 PM 60 Mins	Technical Presentation 3: REPAIR MATERIALS
15 Minute Break	Break & Trade Show Networking
2:30 PM to 3:30 PM 60 Mins.	Technical Presentation 4: PLACEMENT
3:30 PM to 4:30 PM 60 Mins	Appetizers / Socializing & Trade Show Vendors



Presentation Abstracts and Professional Biographies of Presenters

Special Guest Elena Kessi – ICRI 2020 President-Elect



Elena Kessi is the President of Aquafin, Inc., a manufacturer of concrete repair mortars, waterproof coatings, moisture mitigation systems, chemical grouts and other building product systems. Elena has a business degree from the University of Maryland and has been in the construction industry for more than 15 years.

Her experience has been focused on product technology that prevents and repairs concrete damaged by water and moisture. She is an active member of various professional industry organizations, serves on various administrative and technical committees, and is currently the 2020 President-Elect of ICRI. Elena also spent nearly 10 years serving on the Metro New York Chapter ICRI board, holding various positions including President.

Keynote Address: Concrete Repair Industry Trends

The concrete repair industry evolves and adapts to new materials, improved techniques, and changing regulations and standards. These trends affect how we approach repair projects – including planning for material removal, preparing surfaces, specifying materials, and placing new concrete. With these fundamentals, we can apply best practices to answer underlying questions on these projects: why does a particular area of concrete fail and how do we address the underlying reasons for deterioration in a way that meets our client’s short- and long-term needs. In this keynote address, we will explore these issues with an eye on how each aspect of concrete repair influences project outcomes and costs to the owner. We will also discuss how the industry and overall construction market may change in the event of a slowing U.S. economy.



ABOUT THE PRESENTER

Greggory Cohen, PE is a Senior Principal and national practice leader for structural repair and rehabilitation at Simpson Gumpertz and Heger (SGH). He has expertise in designing, investigating, and rehabilitating buildings of various types and materials.

An active member in the Loss Executives Association, he has worked on projects that often involve insurance restoration, including consulting and repair after commercial property losses or disasters. Gregg’s practice also includes demolition planning and construction cost estimating.

Technical Presentation 1 – Demolition

9:45 a.m. – 10:45 a.m.

This presentation will discuss the process of how engineers approach demolition requirements from assessment through bid documents, including how we work together with specialty contractors to determine the best demolition solution for the project. No two projects are the same and there is a balance of multiple factors that must be weighed prior to starting any demolition process. We will touch on the engineer's and contractor's roles in the demolition process and our expectations; the ever-changing rules and regulations that govern the demolition process; and how contractors are managing changes and training. The presentation will close with a brief review of the different demolition techniques, challenges, and appropriate applications.



ABOUT THE PRESENTERS

Todd Neal, PE is a Principal at Thornton Tomasetti with more than 25 years of engineering experience. He is a leader in Thornton Tomasetti's parking garage design and restoration sector. Todd has contributed to two Precast Concrete Institute (PCI) publications, Maintenance Manual for Precast Parking Structures and Joints in Precast Parking Structures and is currently in the committee to update the PCI publication Parking Structures: Recommended Practice for Design and Construction. He is the past president of ICRI New England Chapter and past president of the Structural Engineers Association of Maine.



Don Kearney is a Founding Principal of Contracting Specialists Inc (CSI) with offices in Boston, DC, and Pompano, Florida. He has over 34 years of experience in the assessment and repair of concrete structures, both domestically and in Europe, and worked as an engineering consultant and owner's representative prior to entering the contracting side of the industry. He has co-authored a paper on structural rehabilitation for Structure Magazine and is currently a chartered member of the Institute of Engineers of Ireland and the Institute of European Engineers.

Technical Presentation 2 – Surface Preparation 11:00 a.m. – 12:00 p.m.

Surface preparation is the foundation for any concrete repair, membrane, or coating application, and the consequences of poor surface preparation or use of inappropriate techniques can be detrimental to the performance and longevity of the repair. This presentation will cover the principles and practices behind surface preparation, including saw cutting, geometry, concrete removal, surface profile, concrete and reinforcement preparation/cleaning, and rebar coatings, as well as discussion of various application methods and equipment. At the end, the presenters will describe appropriate field bond testing techniques to verify successful implementation.



ABOUT THE PRESENTERS

Peter Tarara, PE is an Associate Principal with Wiss, Janney, Elstner Associates, Inc. (WJE) in Chicago, Illinois. His work focuses on assessment and repair of concrete, precast concrete and architecturally significant concrete structures. He is active in the American Concrete Institute (ACI), Precast Concrete Institute (PCI), and currently serves as Chair of Subcommittee ACI 546-OC Concrete Repair Guide, Secretary of ACI Subcommittee ACI-546-OD Packaged Materials, and is a member of PCI's Parking Structures Committee.



Justin Macri is a Project Manager with the PJ Spillane Company. His focus is concrete repair, waterproofing, and masonry restoration. He spent the first fourteen years of his career on the consulting engineering side with Walker Consultants and DESMAN as a Project Manager focusing on parking structure restoration. He is a graduate of Wentworth Institute of Technology.

Technical Presentation 3 – Materials

1:15 p.m. – 2:15 p.m.

In today's world of fast return to service and challenging concrete repairs there are many choices of cementitious and engineered repair materials. This presentation will provide an overview of the many differences and pros/cons between pre-packaged repair mortars and ready-mix concrete, types of admixtures in these materials, common testing methods practiced in the field, and common reinforcement techniques. It will also address vetting new products, "magic elixirs" developed by manufacturers competing for marketplace position, and working with contractor personnel trying to interpret the "small print" on the bag or can. There are endless options on the market when it comes to concrete restoration. This presentation will provide a good place to start when choosing repair materials for the next project.



ABOUT THE PRESENTERS

Craig E. Barnes, PE founded CBI Consulting, LLC in 1984. He applies his 50 years of experience toward the advancement of the engineering community through his leadership in creating Basic Education requirements for students in the structural engineering field. Mr. Barnes helped establish the National Council of Structural Engineers Association (NCSEA); has been President of BASE, SEAMass, and NCSEA; continues as a committee member on Structural Engineering Licensing Coalition; and sits on the board of SECB and Media which publishes STRUCTURE Magazine.



Jeff Ohler is a Product Manager at The Euclid Chemical Company, specializing in grouts and mortars for new construction and concrete repair. He has over 20 years of experience in laboratory testing, product formulating, and R&D product management of pre-packaged concrete repair materials. Jeff has an Associate of Science degree in Civil Engineering Technologies and has been involved with ICRI for many years. He is currently a voting member of the ICRI Committees for Technical Activities, Concrete Repair Materials and Methods, Coatings and Waterproofing, and Procurement Methods and Relationship Arrangements.

Technical Presentation 4 – Placement

2:30 p.m. – 3:30 p.m.

After design, demolition, and preparation, concrete repair projects must combine careful planning and execution to achieve a successful concrete placement on site. Working together, engineers and contractors can share their expertise to overcome challenging forms and conditions and ensure a lasting and safe concrete repair. In this session, we will share best practices for concrete repairs from pre-placement checks through the curing process. We will also cover how to place material in challenging conditions and compare the benefits of various methods for placement based on project conditions and requirements.



ABOUT THE PRESENTERS

Jennifer Grubb, PE is a Senior Project Manager at Simpson Gumpertz and Heger (SGH) with experience in complex construction-related disputes and investigations, assessment and repair of plazas and concrete structures, and analysis of construction costs. She leads multidisciplinary teams on projects encompassing concrete repair, plaza waterproofing, plaza paving systems, condition assessment, and maintenance planning. She is also a subject matter expert on exterior traffic bearing expansion joint systems. Jennifer serves on the ICRI New England Chapter Board of Directors. and has presented regionally on concrete repair and on mitigating the risks of litigation on construction projects.



Paul Capobianco is President of Alpha Weatherproofing Corp. and has over 30 years' construction industry experience with a focus on the building envelope. Throughout those 30 years he has overseen all manner of masonry restoration projects; from historic restoration on architecturally significant buildings and landmark structures that required repairs to match existing historic concrete finish and formwork; to completing structural concrete repairs in active parking garages that required minimal disruption to facility operations. His practical, firsthand experience reinforces Paul's unique understanding and application of best practices in today's concrete repair and restoration methods.

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