

PITTSBURGH
AREA
CHAPTER



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**American Concrete Institute
Pittsburgh Area Chapter**

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October 2017

Chapter News



Pittsburgh Area Chapter Upcoming Meetings

2017

**November 8th
December 13th**

2018

**January 10th
February 7th
March 14th**

Visit our website for a list of upcoming events at www.acipgh.com/calendar.shtml.

Concrete In the Steel City



Chapter News

ACI Foundation Project Grant Awarded

The ACI Foundation will provide \$200,000 of research funding through four \$50,000 research grants this year. Projects were vetted and selected by the Foundations working group on research, the Concrete Research Council. We are pleased to announce that our Pennsylvania State University student chapter advisor Dr. Farshad Rajabipour was awarded a grant for a project titled **Evaluating the Performance and Feasibility of Using Recovered Fly Ash and Fluidized Bed Combustion Fly Ash as Concrete Pozzolan**.

This research project will help determine if and how recovered stockpiled fly ash and fluidized bed combustion (FBC) fly ash can be used as viable and high performance pozzolans for concrete. Supplementary cementitious materials (SCM) are key ingredients in today's concrete and can vastly improve the durability and sustainability of concrete mixtures. While the demand for fly ash (the most commonly used SCM) and other suitable pozzolans

continues to escalate, the supply of high-quality and economically available fly ash has been shrinking. While alternative sources of fly ash do exist (e.g., landfilled or ponded fly ash), these have not been used due to lack of guidelines and protocols to evaluate the performance of these ashes and identify necessary beneficiation procedures before they can be incorporated into concrete mixtures. This study seeks to evaluate the feasibility, performance, and beneficiation of two promising alternative sources of fly ash: recovered dry disposed (stockpiled) fly ash, and FBC fly ash.

The project findings will be used to potentially develop new ACI guidelines for the evaluation and use of recovered fly ash and FBC fly ash in concrete. These guidelines will be submitted to ACI Committee 232: Fly Ash in Concrete for review and potential adoption. The project benefits from active participation and co-funding

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October Meeting Recap

Adhesive Anchor Installer and Inspector Certifications

Our first member dinner meeting for this season was held on Wednesday, October 4th at the North Park Lounge in Cranberry Township. The presentation covered program content and the requirements for Adhesive Anchor Installer certification and Adhesive Anchor Installer Inspector, ACI's newest certification program, as well as both programs' connection to ACI 318. The AAI program has been available the last 4 years and the Inspector program is planned to roll out soon. This certification would be of interest to contractors who use these products, engineering firms and agencies that offer inspection services, as well as engineering firms that write repair specifications.

Topics included:

- Need for the AAI certification program
- How the programs were developed
- Understand the requirements to obtain these certifications
- Understand the process and availability of these programs in your area
- Understand criteria associated with new AAI Inspector program



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ACI Foundation Project Grant Awarded

by the industry consortium Pennsylvania Coal Ash Research Group (PCARG), and collaboration with ACI Pittsburgh Chapter, Pennsylvania Aggregates and Concrete Association (PACA), and PennDOT. This provides a perfect opportunity for partnership with industry and rapid implementation of research findings in practice.

The research products are of great interest to several ACI committees, and could provide significant benefits to the concrete industry by overcoming the technical barriers that currently prevent the use of these widely available fly ash resources for concrete.

3rd Annual ~ Excellence in Concrete Project Award ~



The Excellence in Concrete Project Award was established in 2015 to recognize excellence in structural and architectural design; unique and innovative construction or application; and sustainable uses of concrete in construction projects in Western Pennsylvania, Eastern Ohio, and Northwest West Virginia.

Nominations are accepted from any person(s) or firm(s) involved in a project utilizing Portland cement concrete as a significant portion of the project.

- Project can utilize any type of Portland cement concrete construction technique including tilt-up, pre-cast, and cast-in-place
- Project can utilize any type of Portland cement concrete product including shotcrete, self-consolidating concrete, roller compacted concrete, etc.
- Projects can be new construction, restoration, or repair.
- All projects must have been completed during the time period from January 31, 2016 - January 31, 2018. Projects in phases are eligible at the completion of each phase, as well as at the time of completion of the overall project.

The application form can be download at www.acipgh.com

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Chapter News is published by the American Concrete Institute, Pittsburgh Area Chapter for the purpose of informing members and others about issues of concern to the concrete industry. If you have information to include in this publication or any comments, contact ACI Pittsburgh Chapter at 724-452-1468



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ACI 2017 October Meeting

The presentation was given by Michael Morrison with ACI International. Mike has 28 years of experience in project management related to construction materials testing and evaluation and development and execution of training programs within the construction industry. He serves as Manager, Certification Program Development, for the American Concrete Institute (ACI) and leads

the development of potential new certification programs and assists ACI Subcommittees with current Board-approved programs. He also serves as ACI's certification representative to standards development organizations and specifying agencies to promote inclusion of language requiring certification programs in standards and specifications.

ACI – PITTSBURGH AREA CHAPTER FALL-2017/SPRING 2018 CERTIFICATION SCHEDULE

ACI Concrete Field Tech – Grade I	Location
November 6-7, 2017	Gavco Materials - Charleroi, PA
December 4-5, 2017	Ligonier Stone & Lime - Latrobe, PA
December 18-19, 2017	Castle Builders Supply - Hermitage, PA
January 8-9, 2018	J.J. Kennedy - Shippensburg, PA
January 29-30, 2018	M and B Redi Mix - Clarion, PA
February 12-13, 2018	New Enterprise - Roaring Spring, PA
February 26-27, 2018	To Be Determined
March 12-13, 2018	Stone & Co - Greensburg, PA
ACI Laboratory Testing Tech Level 1 (Strength & Aggregate Level 1)	Location
November 17-18, 2017	Bryan's Research Center - Pittsburgh, PA
March 8-9, 2018	Pittsburgh, PA
Concrete Flatwork Finisher/Tech	Location
March 2018	To Be Determined
ACI Adhesive Anchor Installer	Location
Friday-Saturday in December 2017 or January 2018	To Be Determined
ACI Masonry Field & Lab Testing Technician	
Masonry Field and Laboratory Testing are typically offered together and on an individual basis. One Day test only session. No review offered. Please contact the chapter to schedule an exam with the engineer.	
ACI Aggregate Testing Technician Level II	
Aggregate Level II offered on an individual basis. One Day test only session. No review offered. Please contact the chapter to schedule an exam with the engineer.	
<p>To download a registration form or to register on-line log onto: www.acipgh.com</p>	

Credit Card payments are accepted with our on-line registration feature (www.acipgh.com)