

PITTSBURGH
AREA
CHAPTER



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**American Concrete Institute
Pittsburgh Area Chapter**

P.O. Box 86
Zelienople, PA 16063

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October 2019

Chapter News



ACI PITTSBURGH AREA CHAPTER 2019/2020 DINNER MEETINGS

North Park Lounge Cranberry - 20810 Route 19 - Cranberry Township, PA 16066
6:00 PM

Date	Speaker	Topic
November 6, 2019	Cheryl Moon Sirianni, <i>District Executive for PennDOT District 11</i>	PennDOT District 11 and Upcoming Projects
December 4, 2019	Chris Eagon, <i>BASF</i>	Nanotechnology-The future of Concrete
January 8, 2020	Jim Casilio	Scaling & Concrete Finisher certification to reduce it
February 12, 2020	PTC & CDR Maguire	Southern Beltway-Long Life Concrete Pavement & Bridges
March 4, 2020	TBD	TBD

Concrete In the Steel City



Chapter News

President's Message

By Tricia G. Ladely



Thank you for the opportunity to serve as Chapter President. I am already enjoying working alongside Staff and the Board of Directors as we started the new term with a planning meeting. Our dinner speaker program has also begun and Dave Thomas, Chapter Vice-President, has secured a strong group of speakers.

I would like to share a little about my introduction to concrete with you. In 2004 I was assigned a 'special project' at work to create lightweight concrete using polymer beads. All I knew at that time about concrete was that it was "heavy" and "caustic" due to a few partially successful home projects. But I love to learn new things, so I signed up for several classes and seminars at the upcoming World of Concrete. I remember one seminar taught by Ken Hover on concrete mix designs. He shared about concrete materials, mix proportions, and shrinkage while throwing cotton T-shirts at the class to illustrate his point. After my first product trial at an architectural plant in North Carolina, I was hooked.

As I worked to learn more about concrete, one thing became clear. The study of concrete was similar to my study of chemistry. The more I learned about it, the more I understood what little I really knew! Concrete has a long rich history, and so does this Chapter. Being established in 1962, our Pittsburgh Area Chapter has served the tri-state community for 57 years. Think of the advances in concrete that have occurred since the 1960s:

- Prestressed Concrete is developed in the U.S.;
- Concept of air entrainment is established;
- 1970 – first student concrete canoe is built;
- Epoxy compounds are first used with concrete;
- Concrete pumps & booms develop;
- Architectural community uses plastic forms;
- Lightweight aggregate concrete is developed;
- High range water reducing admixtures (superplasticizers) are commercialized;
- 1980's - ACI begins certification program;
- Laser guided screeds are used;
- Steel fiber reinforcement is accepted;
- High performance concrete is developed, etc.¹

The advancement of concrete materials, design practices and evolving technologies go on and on. Today we are seeing the use of 3-D printed concrete, machine learning and artificial intelligence for concrete mix proportioning, designs with glass-fiber reinforced concrete and advanced evaluation and monitoring of concrete health and performance through cloud-based technologies. There is a wealth of concrete knowledge out there and we want to highlight the information that is most important to our members and our region.

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...Thank You!



~ 2019 Golf Outing Sponsors ~

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► Continued from page 1... **President's Message**

As one of many local ACI Chapters, we have a mission to advance the interests of the Institute to: *“further engineering and technical education, scientific investigation and research, and development of standards for design and construction incorporating concrete and related materials. . . These efforts shall promote improved technology, technical competence, design and construction for the benefit of society.”*² Chapter programs should help members learn more about concrete and in turn, that knowledge should spread to our companies, procedures and job site practices.

My hope this year is to engage more members in the work of the Chapter. We want to hear from you on what you want to learn, how to improve concrete education, ways to support students and how we should spend Chapter resources. Please consider joining us at our dinner meetings and advancing your knowledge of concrete. My role is to serve YOU, our members, so please do not hesitate to contact me with your ideas, questions or concerns. Thank you again for this exciting opportunity to serve the ACI Pittsburgh Area Chapter.

Best regards,

Tricia G. Ladely

724-601-3075 / tricialadely@icloud.com or tricia.ladely@acifoundation.org

References: available from www.concrete.org

¹ ACI: A Century of Progress

² Guide to Chapter Organization and Operation, 11th Edition

EVENTS FOR THE 2019-2020 ACI YEAR

EVENT	DATE
ACI Fall Convention - Cincinnati, OH	October 20 - 24, 2019
PACA's Annual Meeting	November 16 - 17, 2019
World of Concrete	February 3 - 7, 2020
PA Concrete Conference - Harrisburg, PA	February 13 - 14, 2020
Pittsburgh Regional Science & Engineering Fair	March 2020
ACI Spring Convention - Chicago, IL	March 29 - April 2, 2020

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

Be sure to check the website, as our meeting minutes are posted there for review. In addition, members are welcome to observe board meetings, to obtain a better understanding of Chapter activities.



Highlight of Global Benefits offered by the American Concrete Institute to our Local Chapter Members:

- Free digital subscription to Concrete International magazine*;
- Three free tokens for selected on-demand courses at the ACI University*;
- Inclusion in and access to the ACI Member Directory*; and
- A printable ACI membership certificate*.

**Select global benefit offered by the American Concrete Institute.*



FOUNDERS AWARD

The ACI Pittsburgh Area Chapter established the Founders Award Fund in 1988 for undergraduate students, including seniors, who have an interest in the areas of cement technology, or concrete technology, design or construction. The student should be studying Civil or Materials Engineering/Technology, or Architecture/Architectural Engineering.

The awards are offered in the amount of \$3,000, \$2,000 and \$2,000.

At this time, we are accepting applications for the 2019/2020 academic year. The student is required to submit: an ACI application, a letter of transmittal, an official copy of their transcript of grades; and two letters of recommendation. **Applications must be received by January 31, 2020.**

*If you would like to obtain an application form or have any questions, go to **www.acipgh.com**, then click on 'Scholarships and Awards.'*

BOARD OF DIRECTORS

2019 ~ 2020

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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



~ 5th Annual ~ Excellence in Concrete Project Award

We encourage you to submit a project for the 5th Annual Excellence in Concrete Project Award – and share the opportunity with others in the Pittsburgh area concrete community – whether they are a member of ACI or not.

Please be on the lookout for the latest application in the upcoming weeks.

Your help is needed to make this program successful!



ACI – PITTSBURGH AREA CHAPTER FALL 2019/SPRING 2020 CERTIFICATION SCHEDULE

ACI Concrete Field Tech – Grade I	Location
October 28-29, 2019	Gavco Materials, Inc. – Charleroi, PA
December 2-3, 2019	Ligonier Stone & Lime, Latrobe, PA
December 16-17, 2019	Castle Builders Supply – Hermitage, PA
January 6-7, 2020	J.J. Kennedy, Inc. – Shippensburg, PA
January 27-28, 2020	New Enterprise Stone & Lime – Roaring Spring, PA
February 10-11, 2020	DuBrook – Clarion, PA
February 24-25, 2020	Golden Triangle Construction – Imperial, PA
March 9-10, 2020	Stone & Company – Greensburg, PA
Self-Consolidating Concrete Testing Technician	Location
November 15, 2019	Concrete Concepts – McKees Rocks
Concrete Strength & Aggregate Testing Tech	Location
January 17-18, 2020	Pittsburgh, PA
Concrete Flatwork Finisher/Tech	Location
February 22, 2020	Golden Triangle Construction - Imperial
To download a registration form or to register on-line log onto: www.acipgh.com	