

VP of Engineering Report

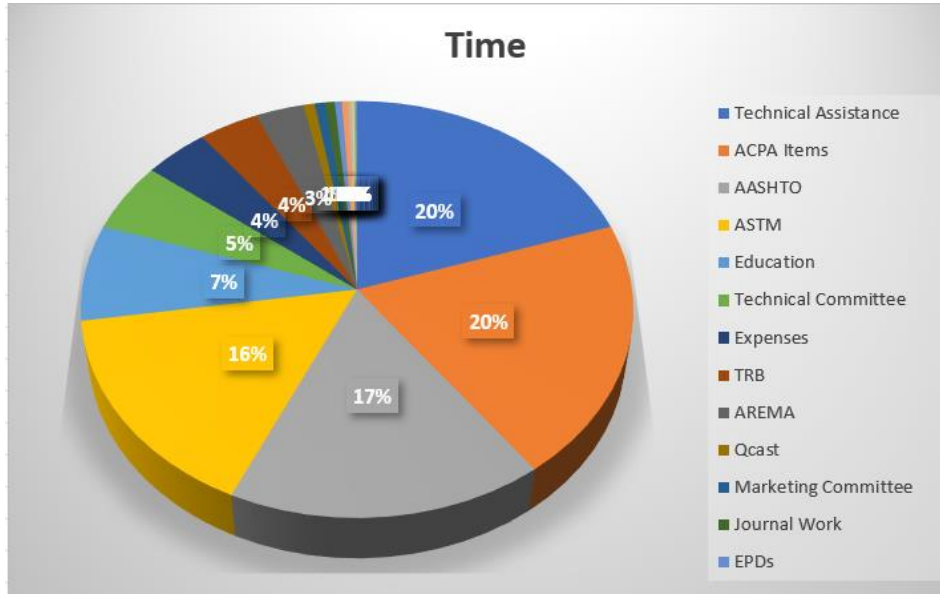
Josh Beakley

jbeakley@concretepipe.org

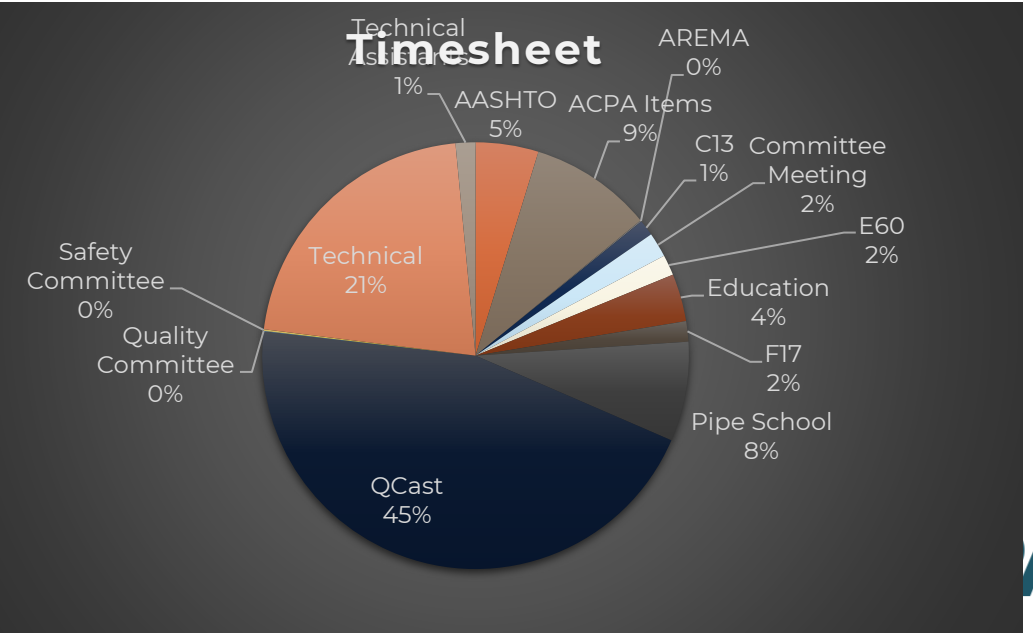
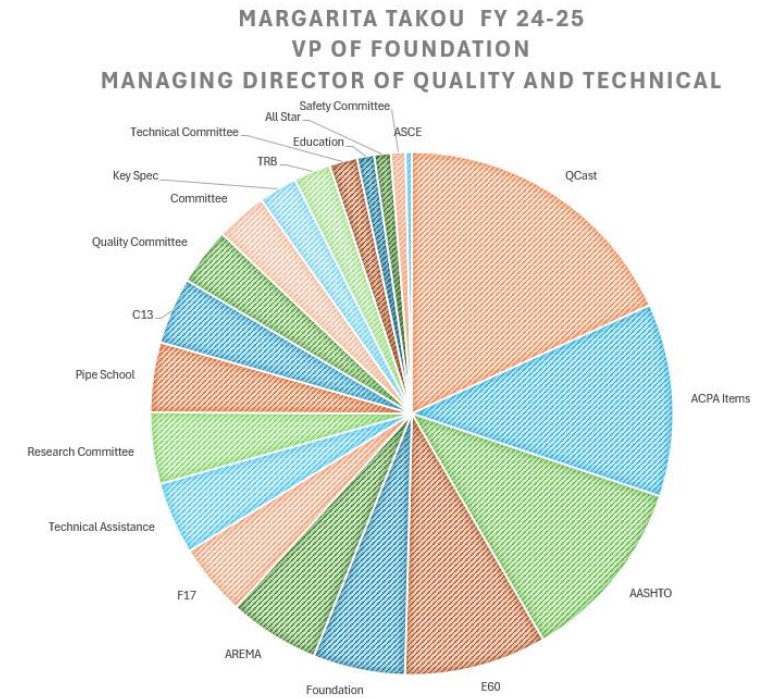


How do We Spend Our Time?

Josh



Eghe



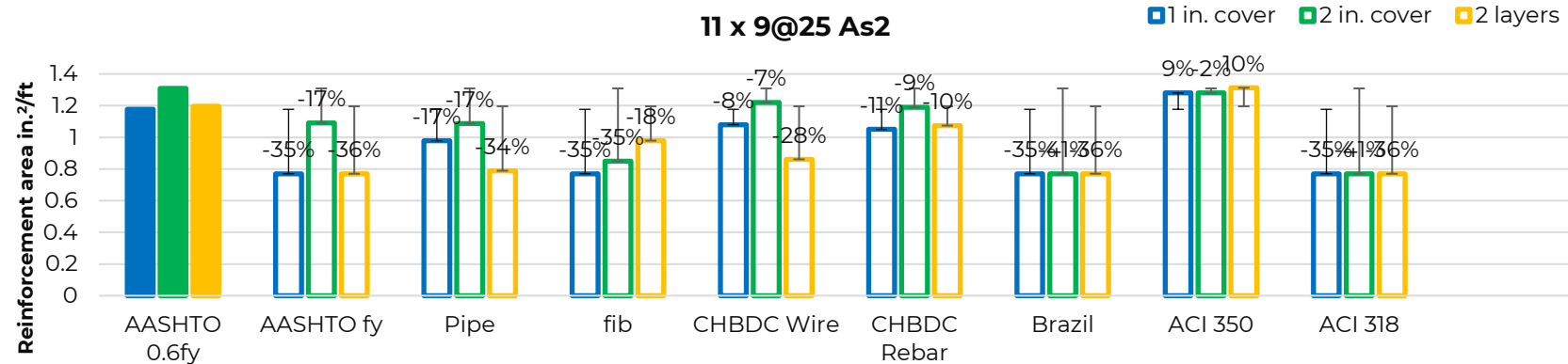
General Activities

- Committees:
 - ASTM E60.80 – General Sustainability
 - ASTM E60.95 – Student Liaison and Affairs
 - TRB AKB70(2) - Resiliency and Sustainability
- AASHTO COBS - Crack Control
- AASHTO COBS/SOM – SRPE Pipe Revisions
- Technical Literature – Live Load Design Datas
 - Design Data #1 – Live Load
 - Design Data #2 – Live Load under Rigid Pavement



Box Culvert Crack Control

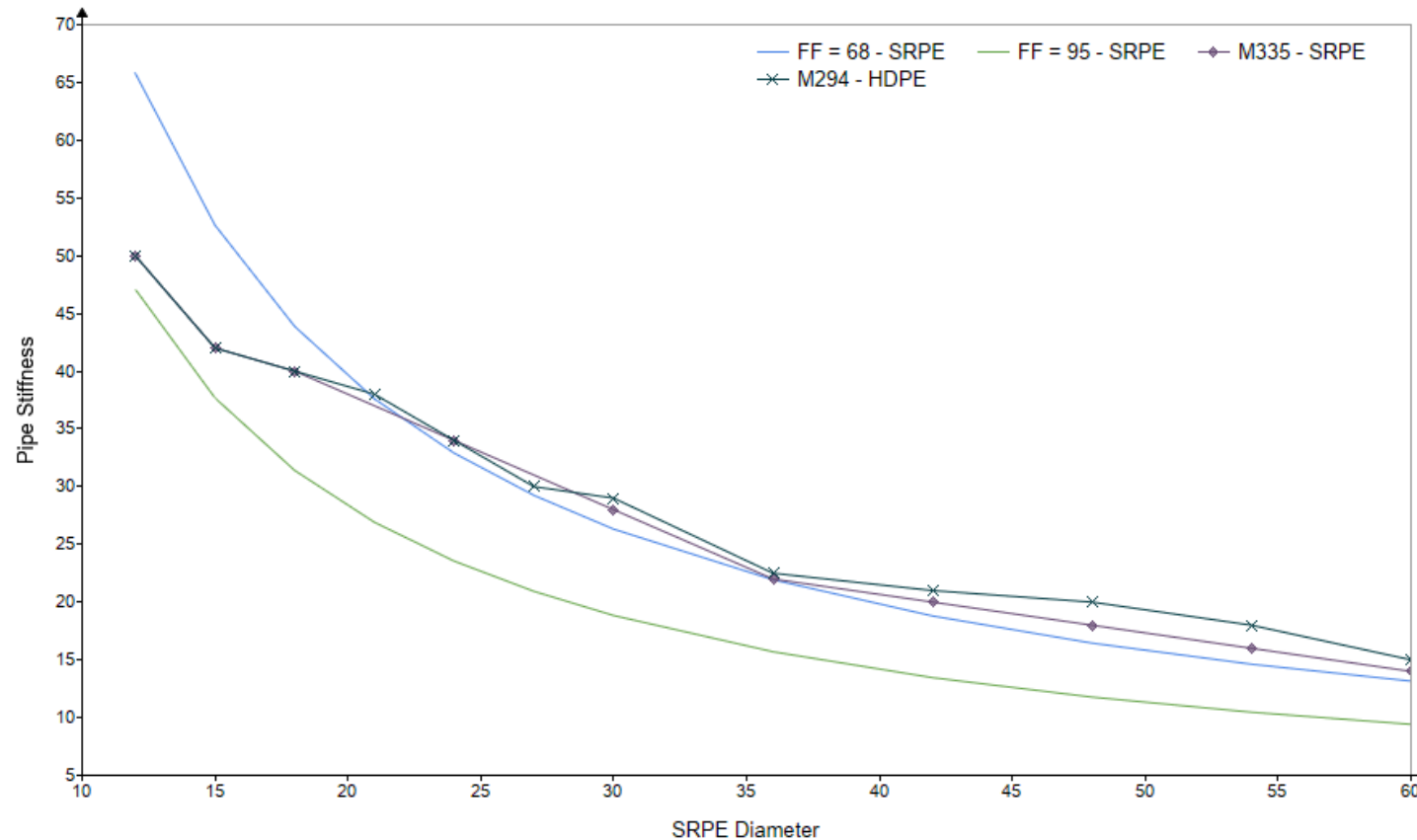
- AASHTO Revised their Crack Control for Concrete - 2014
- “*Comparison of Concrete Crack Control Methods Utilized by Various Standards*” – 2023
- AASHTO Committee on Bridges and Structures Ballot Item - 2025



SRPE – Flexibility Factor vs. Pipe Stiffness

1. Replace flexibility factor limit for Steel-Reinforced Thermoplastic Pipe as given in Table 12.5.6.1-1 to the following:

Type of Construction Material	Corrugation Size (in.)	Flexibility Factor (in./kip)
Steel-Reinforced Thermoplastic Pipe		
Standard Installation		68
Improved Installation		95



Live Load Under Rigid Pavement

Tables

PRESSURE COEFFICIENTS FOR A SINGLE LOAD

Values of C

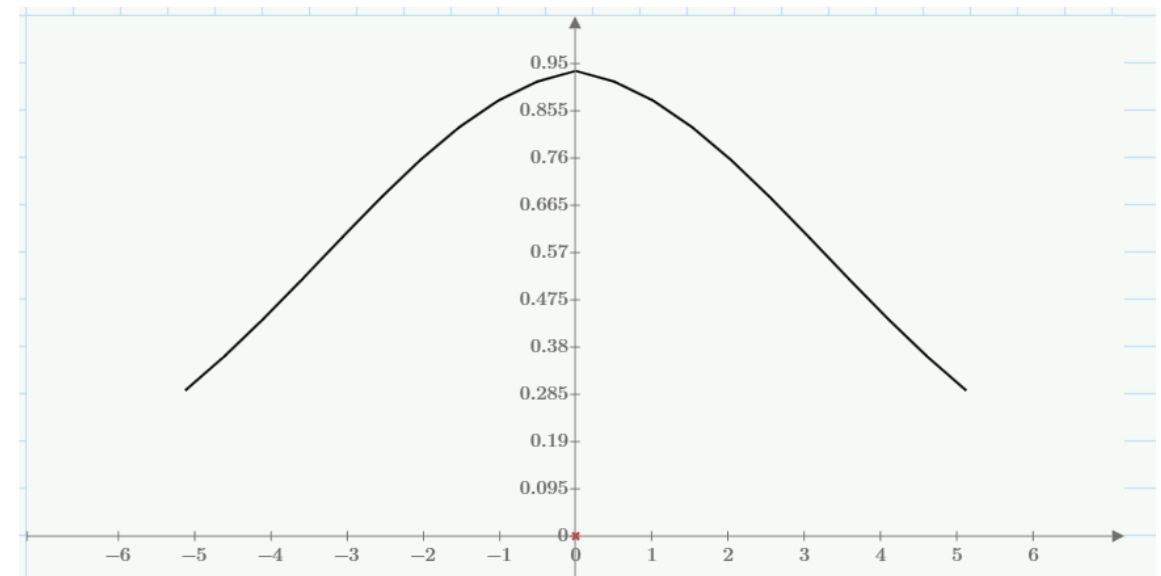
$p = \frac{CP}{R_s^2}$ pounds per square foot

P = wheel load, pounds

R_s = radius of stiffness of rigid pavement slab, feet

$\frac{H}{R_s}$	$\frac{x}{R_s}$										
	0.0	0.4	0.8	1.2	1.6	2.0	2.4	2.8	3.2	3.6	4.0
0.0	.113	.105	.089	.068	.048	.032	.020	.011	.006	.002	.000
0.4	.101	.095	.082	.065	.047	.033	.021	.011	.004	.001	.000
0.8	.089	.084	.074	.061	.045	.033	.022	.012	.005	.002	.001
1.2	.076	.072	.065	.054	.043	.032	.022	.014	.008	.005	.003

Equations



Point	$\frac{x}{R_s}$							
	0.0	0.4	0.8	1.2	1.6	2.0	2.4	2.8
Pressure								
Coefficient C	0.068	0.064	0.058	0.050	0.041	0.031	0.022	0.015
Pressure psf	943	887	804	693	568	430	305	208

For convenience of computing the load in pounds per linear foot, the pressure distribution can be broken down into two components; a uniform load and a parabolic load.

The End



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Margarita Takou – mtakou@concretepipe.org

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MARKETING

Marketing

Support

Process

Production

Digital

Communications

Moving Ahead

Marketing

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Process

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Moving Ahead



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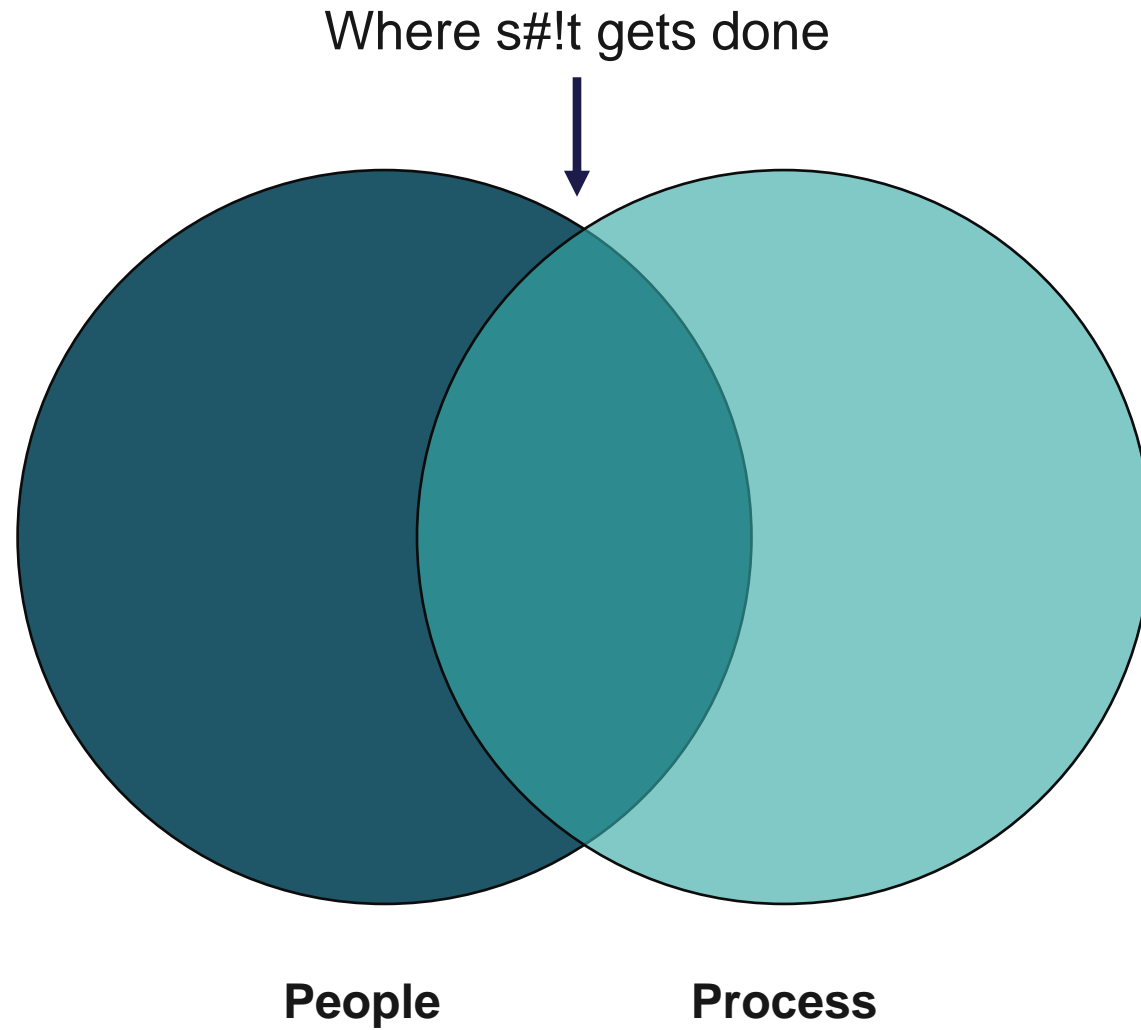
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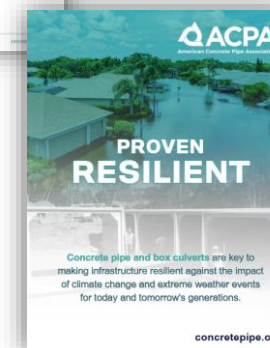
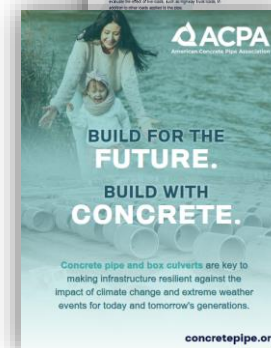
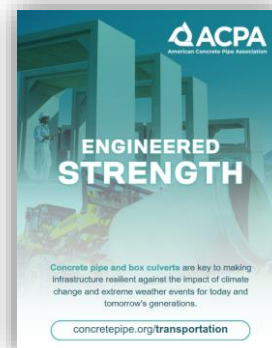
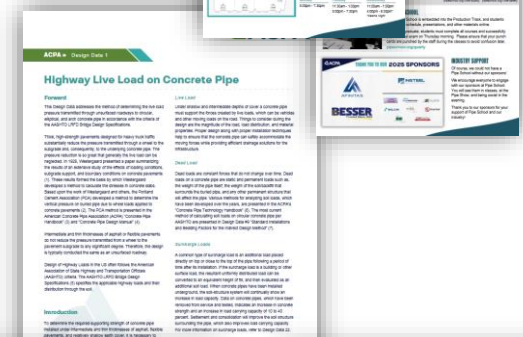
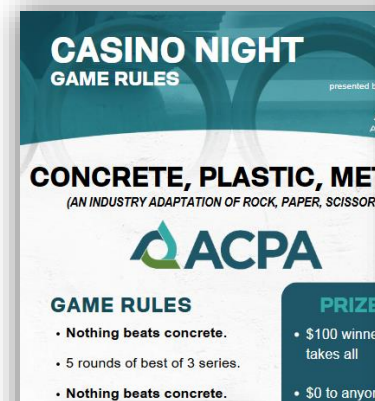
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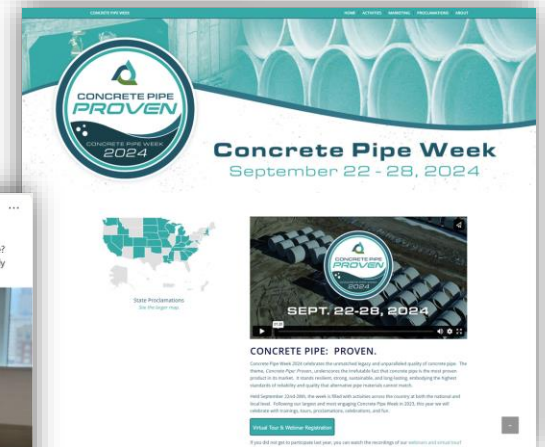
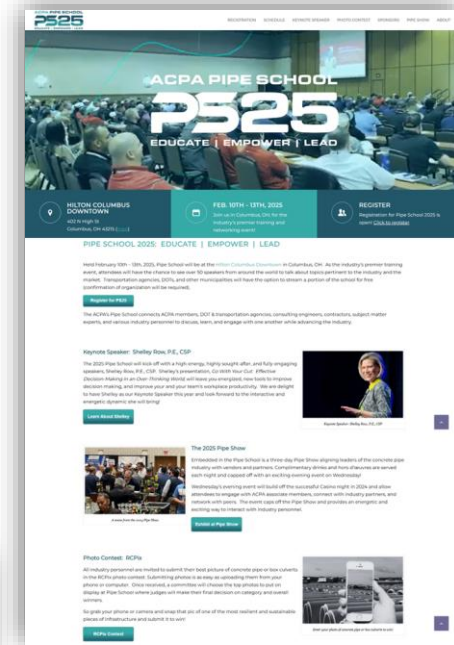
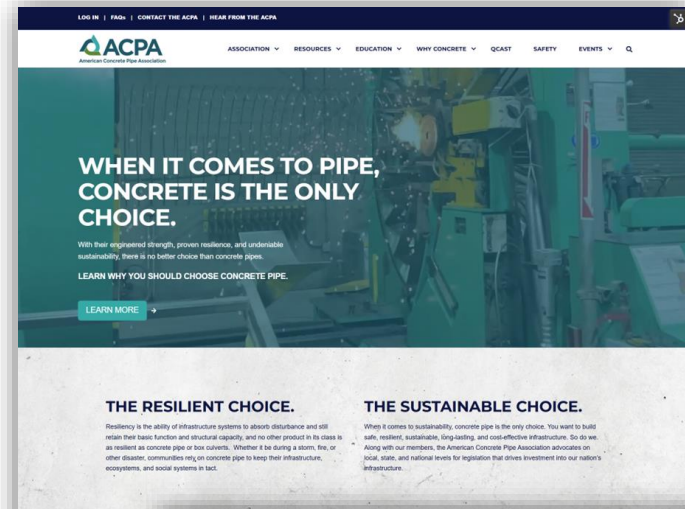
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**NEWS
BLAST**
MARCH 2025

ACPA
American Concrete Pipe Association

MARCH #MustKnows


Pipe School & Encore 2025:
Thank you for making PS25 one for the books!

The 2025 Pipe School & following Encore were huge successes! With participants from across the North America and around the world, this year's events brought together industry professionals for dynamic presentations, hands-on learning, and valuable networking.

The Pipe Show was also a standout, showcasing supplier innovations and services, fostering connections, and even having fun with a Casino Night.

From insightful sessions to international collaboration, this year's event truly embodied **Educate. Empower. Lead.**

Relive the highlights - check out the [photo gallery](#) now!



Pipe School 2025 Photo Gallery

ACTION ITEMS

Have an innovative RCP or box culvert project worth sharing?


PROJECT ACHIEVEMENT AWARD
March 14, 2025
[APPLY](#)

REGISTER 2025 ANNUAL MEETING
ISLE OF PALMS, SC
MARCH 16-18, 2025

2025 ANNUAL BUSINESS MEETING
March 16 - 18, 2025
[REGISTER](#)

Become empowered

SPRING P3 TRAINING



VETERANS DAY

HONORING ALL WHO SERVED

★ ★ ★ ★ ★


ACPA

This Veterans Day, the American Concrete Pipe Association extends our deepest gratitude to all the veterans who have served our nation with honor and courage.

We are especially proud of the many veterans within our industry and our association. Your dedication to protecting our country has seamlessly transitioned into helping build its infrastructure. Thank you for your service, both in uniform and in helping build the foundation that keeps America strong.

Your continued resilience and strength inspire us every day.

Thank you from all of us at the American Concrete Pipe Association!



SUBMIT TODAY
2025 PROJECT ACHIEVEMENT AWARD
DUE MARCH 14TH, 2025


Submit for the Project Achievement Award Today!

The deadline for the 2025 Project Achievement Award (PAW) is Friday, March 14th! The purpose of the PAW is to recognize agencies which have demonstrated creative and innovative accomplishments through projects that have been designed utilizing precast concrete pipe or boxes.

Eligibility

Any member agency of AASHTO may apply for the award. Agencies and ACPA members may submit projects jointly or separately. ACPA members submitting projects separately must obtain the signature of the responsible agency.


[Apply for the Award](#)



[\(download the PAW 2025 brochure\)](#)

Important Dates

- Entry Forms Due: March 14th, 2025
- Notification of Winners: Mid-April, 2025
- Award Presentation: During the 2025 AASHTO Committee on Bridges and Structures Meeting (May 31 - June 6)



QCAST QUALITY MINUTE
JANUARY

January | QCast Quality Minute
Paul Krauss, Wiss, Janney, Elstner Associates, Inc. (WJE)

The following message has been written by QCast auditor, Paul Krauss, from WJ and is with an intended audience of those who have responsibility for their QCast plant.

[View All QCast Quality Minutes](#)

Year End Wrap-up

The end of each year provides a few days off for a well-deserved holiday break with family and friends. It's also a great time to review the QC files of our daily inspection reports and clean out your inbox and file that stack of QC documents on your desk. Maybe set up folders so you're ready for the new year, and if you can, take some time to think about how the past year went and what can be done better next year.

Quality is about continuous improvement, and thinking holistically on how things might be done better or more efficiently can be difficult when you are in the trenches doing daily QC duties.

How might QC duties be allocated better or done quicker or easier?

To improve your quality control, focusing on both the right tasks and the right people are key.



Marketing

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Marketing Plan Update

Updated Web Platforms

Public Relations

Marketing Support

Target Audience Growth

Videos

Digital Presence

Technical Document Updates

State Association Support

Improved Communications

New Collateral Creation



EDUCATION

Education

Introduction

Systems

Observe

Strategy

Education

Introduction

Systems

Observe

Strategy



Dena Silva

Director of Education

Fort Worth, TX

Education

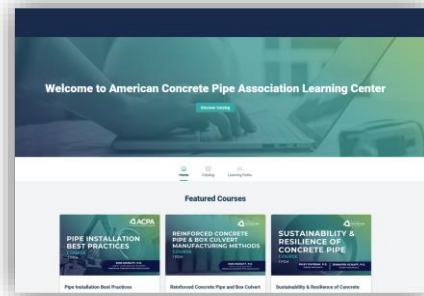
Introduction

Learn and analyze systems for education deployment

Systems

Observe

Strategy



Learning Management
Systems



Webinars



PDH Certification
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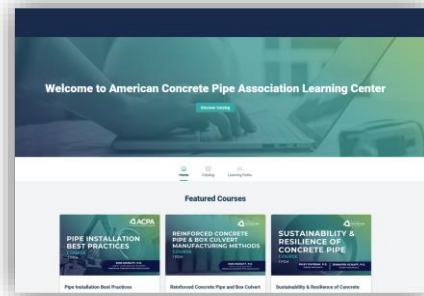
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Webinars



PDH Certification
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Observe learner behavior and interest



Repeat vs Single
Learners



Cross-Product
Engagement

Pipe Design
Manufacturing (Virtual Tour)
Pre-Installation Inspection
Pipe Installation Best Practices
Post-Installation Inspection

High Use Topic

Education

Introduction

Systems

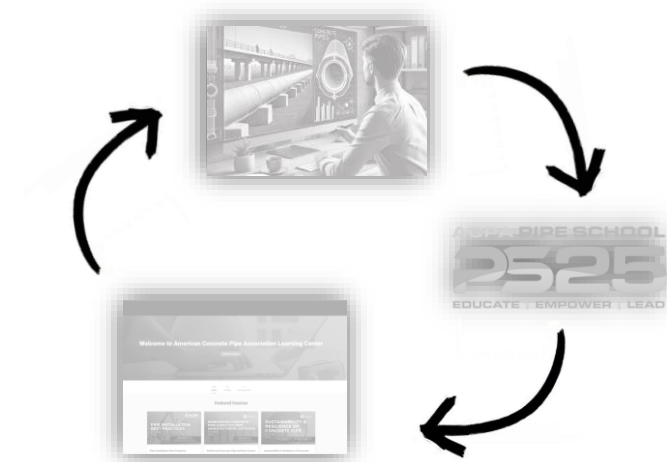
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Cross-Product
Engagement

- Pipe Design
- Manufacturing (Virtual Tour)
- Pre-Installation Inspection
- Pipe Installation Best Practices
- Post-Installation Inspection

High Use Topic

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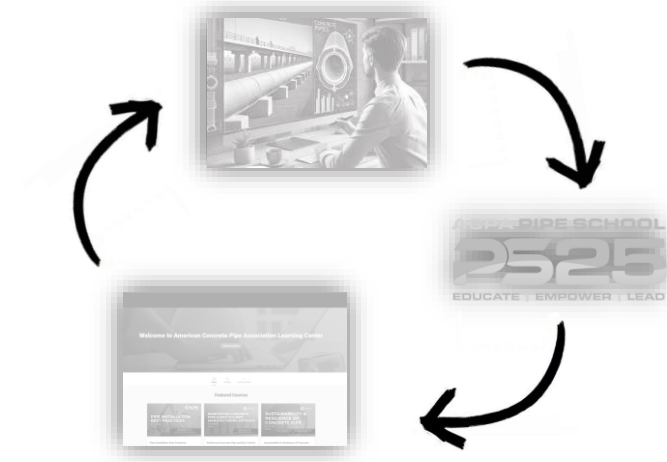
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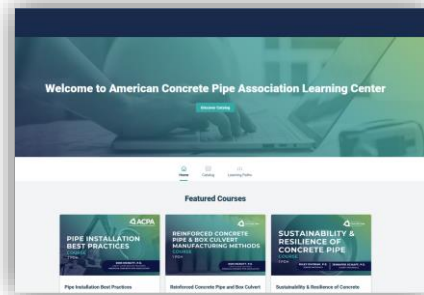
Introduction

Develop strategy that incorporates members and external stakeholders

Systems

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Retool LMS Entry Point



Pipe School Expansion



Beyond Quality School

Education

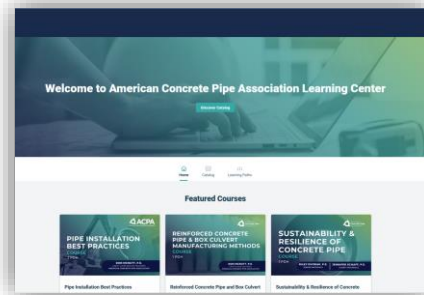
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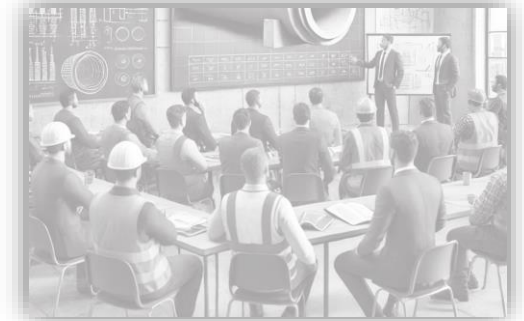
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Retool LMS Entry
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Pipe School
Expansion



Beyond Quality
School

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Pipe School
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Pipe School
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Beyond Quality
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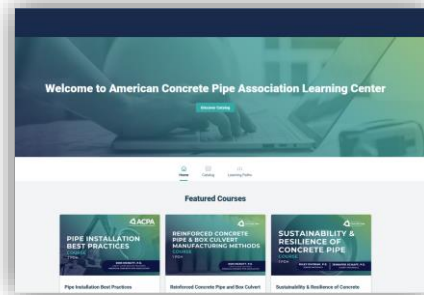
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Retool LMS Entry
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Pipe School
Expansion



Beyond Quality
School

ACPA Research and Education Foundation update





Why support ACPA Foundation

- Fundamental for shaping the industry's future
- Strengthens stakeholder trust enhances the industry's credibility and stability
- Shared cost ensures collective investment from all members
- Funding of the programs only possible through your involvement and generous support

ACPA Foundation Programs Success

Education Committee – Scholarships

- 64 transportation officials sponsored at 2025 Pipe School (62% increase from 2024) representing 20 States
- 75 Sponsored guests at the Transportation Professionals Dinner
- **Benefit: Educate, train, learn from & have one-on-one time with decision makers**

2 Student Scholarships – 1 attended in-person

- Besser – Caden Bird, Purdue University Fort Wayne
- Mel Marshall – Emma Roth, South Dakota State University
- **Benefit: Attract and retain students who will make a positive impact on the concrete pipe industry**



ACPA Foundation Programs Success (cont.)

Major Research Complete

- Performance of Dry-Cast Box Culverts Subject to Cyclic Freezing
- **Benefit: We now have a third-party written report attesting to the F-T resistance of dry-cast concrete, which provides a fine, well distributed capillary pore structure that is necessary for the concrete to be self-supporting and is enhanced by its low w/c, low permeability, and high strength.**

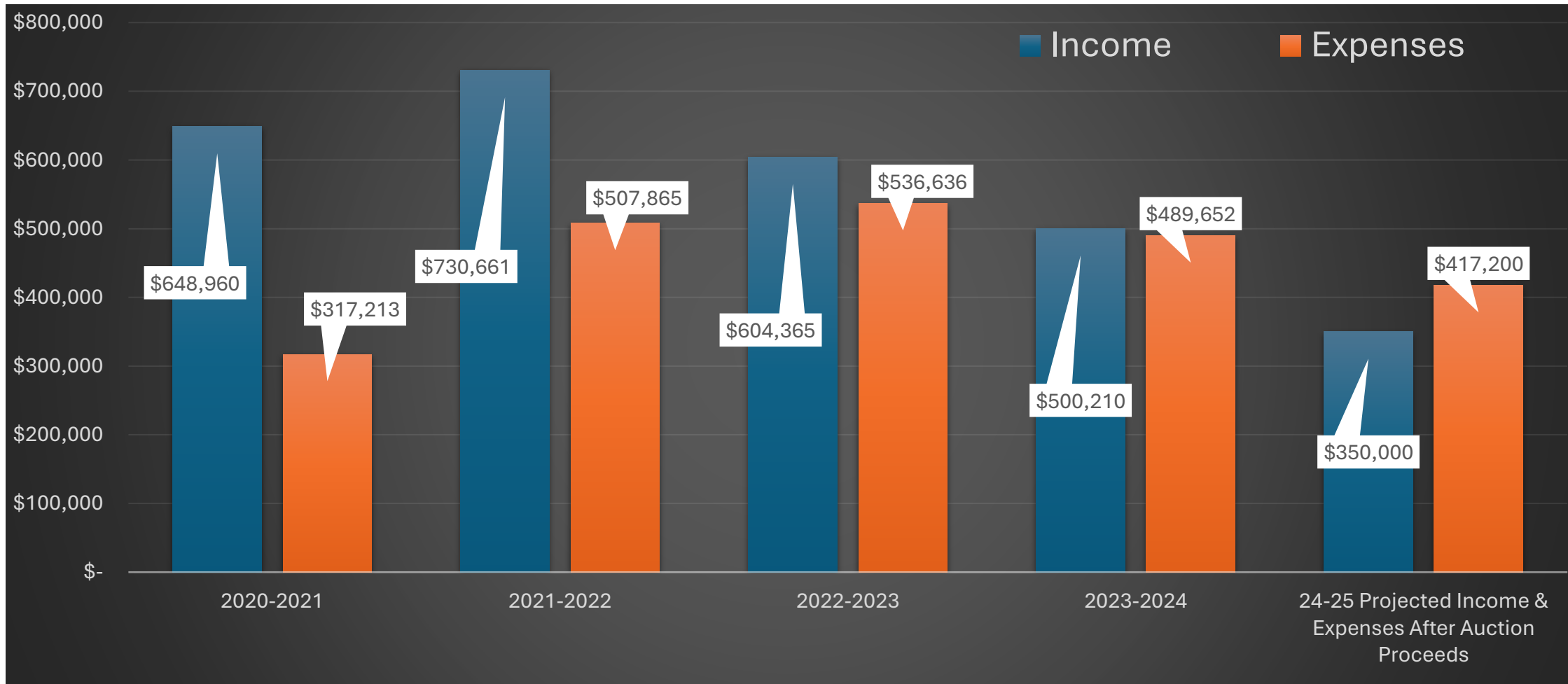


Fundraising Standard Operating Procedure

- In place
- **Benefit: Raise funds to support our industry's research and educational goals aligned with the ACPA's objectives and goals.**

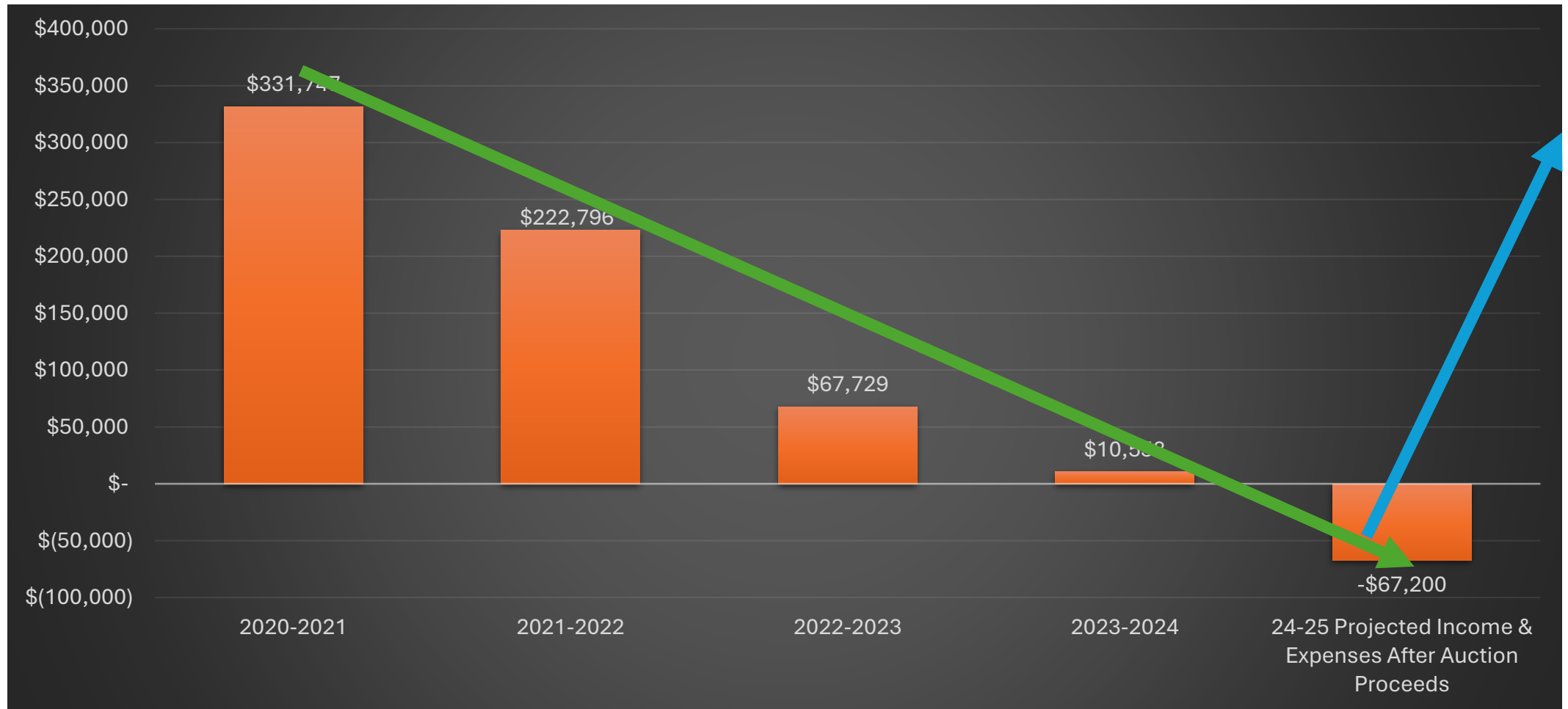
2020 – 2025

ACPA Foundation Income vs. Expenses



2020 -2025

ACPA Foundation Net income





Learn more and pledge your support:
concretepipe.org/foundation

Moving Forward >>> Become a Foundation Partner

- **Research Partner - up to \$25,000/year for 3 years**
 - Funds applied towards research as directed by Research Committee and approved by the Board.
- **Education Partner - up to \$5,000/year for 3 years**
 - Funds for scholarships and activities engage transportation professionals at Pipe School.
- **Relationship Partner - up to \$2,000/year for 3 years**
 - Provides funding for the Transportation Professionals Dinner at Pipe School
- **Individual Partner - \$50 - \$500 year for 3 years**
 - Funding that will be applied towards a variety of Foundation initiatives.
- **General Donation - any amount is accepted**
 - No amount is too small when it comes to investing in the future



Thank you!

2025 Fundraising Task Group

- Ron Metzger
- Bill Adams

And ALL of you who helped with your donations

THANK YOU FOR HELPING US
solidifying our market position and driving growth, AND
making significant strides towards empowering industry
leaders with the knowledge they need to excel



Administration of the Quality Programs



FY24-25 Program Administration

Quality Program

- 104 plants audited
- 2 Quality Committee meetings
- 2 Manufacturing TG meetings
- QCast manual update



Online Quality School

- Transferred to ACPA Learning Center

FY24-25 Program Administration

ANAB Accreditation Annual Requirements

- ANAB Audit – Passed with a clean report
- Internal Audit – Completed in February
- Impartiality Committee – Completed in March
- Top Management Review – TBD



QCast Dashboard

- Launched January 1st 2023
- Troubleshooting and fine tuning
- All plants are on their 2nd cycle

Company 1a QCAST Plant Profile

- Phone: +12125699999
- Location: 7803 NIKAU DR, New York, NY

Current Certification

Application Due	Application Received	Payment Due	Payment Received	Certification Expiration Date	Audit Report Issued	Audit Response Due	Audit Report Link	Passed	Conditional	Fail
1/1/24	11/28/23	1/1/24		1/1/25						
10/10/23	10/2/23	10/10/23	10/1/23	1/1/24	10/16/23		Audit Report>>	[Sanitary Sewer Pipe, Manholes, Engineered Precast Concrete, Sanitary Manholes]	[Sanitary Manholes, Manholes]	

[Apply with Current Application >>](#)

[Add New Quality Plant Manager >>](#)

QCast Administration Team

Thank you!



Questions?

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