2018 EXCELLENCE IN CONCRETE CONSTRUCTION AWARDS

Virginia Chapter - American Concrete Institute

2019 Virginia Concrete Conference

February 28, 2019

George R. Kuhn, Jr.
Virginia Chapter - ACI President
Virginia Chapter - ACI

- Established in 1989
- Excludes the cities of Alexandria & Arlington, and the counties of Fairfax, Loudon and Prince William.
- Membership open to anyone with an interest in concrete: architects, engineers, material suppliers, equipment suppliers, inspectors, owners, students, and anyone else interested in pursuing the best use of concrete
- Focus areas: education, training & certification, recognition and advancing concrete knowledge
Certifications programs:

- Concrete Strength Testing Technician
- Aggregate Testing Technician – Level I
- Concrete Laboratory Testing Technician – Level II
- Adhesive Anchor Installer & Installation Inspector
- Specialty Commercial/Industrial Flatwork Technician
- Concrete Flatwork Finisher & Technician
- Concrete Flatwork Tradesman (new)
- Concrete Construction Special Inspector
- Concrete Transportation Construction Inspector
- Masonry Field & Laboratory Testing Technician (new)
- Self-Consolidating Concrete Testing Technician (coming)
Virginia Chapter - ACI

- acivirginia.org

- Annual Membership:
  - Individual $35
  - Young Professional $20
  - Student $0
  - Corporate (up to 3 persons) $75
  - State-wide Corporate (up to 10 persons) $150
Virginia Chapter - ACI

Board of Directors

- President: George Kuhn – Chandler Concrete
- 1st Vice President: Isaac Perkins – Tindall Corporation
- 2nd VP/Secretary: TR Fluker – Schnabel Engineering
- Treasurer: Jack Kowalski – Branscome, Inc.
- Past President: Marie Derby – Argos-US
- Directors:
  - Michael Brown – WSP USA
  - Ed Forbes – Sauer, Inc.
  - William Gaspar – Moseley Architects
  - Derek Imperial – Swope & Associates, Inc.
  - Hank Keiper – The SEFA Group
  - Steve Lloyd – Lloyd Concrete Services, Inc.
  - Charles Long – Allied
  - Chuck Starnes – retired
  - Mark Townsend – Essex Concrete Corporation
Commonwealth Award Criteria

- Project essentially completed in 2018
- Have a substantial quantity of concrete and/or incorporate significant architectural, technical or sustainable concepts of concrete use
- Located within Virginia (except for Arlington, Fairfax, Loudon, and Prince William counties)
- Single Overall Award – Commonwealth Award
Award Categories

The 6 categories mirror the ACI International’s Excellence in Concrete Construction Awards

- Low Rise Buildings (1-3 stories)
- Mid-Rise Buildings (4-15 stories)
- High-Rise Buildings (more than 15 stories)
- Decorative Concrete
- Infrastructure
- Repair and Restoration
2018 Commonwealth Award Category Winners
Category: Low-Rise Buildings

Blue Skies Lane Home

- Owner: Joe & Lori Friesen
- Contractor: Design Concrete Builders, Inc.
- Concrete Supplier: Rockingham Redi-Mix
Blue Skies Lane Home
Blue Skies Lane Home
Blue Skies Lane Home
Category: Low-Rise Buildings

Blue Skies Lane Home

Features:
• Footer to roofline ICF perimeter walls
• Spray on cement-based exterior finish
• Stamped concrete porches, walk out patio and driveway
• Concrete countertops and 5’ x 10’ concrete top island
• Energy efficient R-50 home
Category: Decorative

Decorative Driveway

- Owner: Atul & Arpita Aggarwal
- Prime Contractor: Richard Atack Construction
- Concrete Contractor: River City Concrete, Inc.
- Concrete Supplier: S.B Cox Ready-Mix, Inc.
Decorative Driveway
Decorative Driveway
Decorative Driveway

Features:

- 64 cy of concrete used
- Multiple colors/pattern stamps:
  - Dusty Rose color - Jumbo Stamp pattern, Canvas color - Random Stone pattern; all with Dessert Tan release agent
- Walnut Stain driveway borders
- Multiple pours with double forming to achieve the overall look on the panels and control joints
Category: INFRASTRUCTURE

Route 744 Bridge over Bluestone River, Tazewell County

- Owner: Virginia Department of Transportation
- Structural Engineer: VDOT - Bristol District S&B
- Contractor: Patrick Construction, Inc.
- Concrete Fabricator (Precast): Eastern Vault Company
- Concrete Supplier: McClure Concrete Products, Inc.
Route 744 Bridge over Bluestone River, Tazewell County

Virginia Adjacent Member Connection (VAMC):

- Conventional shear keys fail, leading to poor load distribution and premature corrosion from leakage of chloride-laden runoff
- VAMC was developed by VDOT and Virginia Tech to ensure more durable longitudinal joints and extend bridge life.
Route 744 Bridge over Bluestone River, Tazewell County

Very High Performance Concrete (VHPC):

- VHPC is a mix of cement, silica fume, fly ash, small aggregate and steel fibers developed to reduce lap splice length of reinforcing steel in the connections.
- VHPC costs 60% less than Ultra High Performance Concrete (UHPC), which is gaining use for connecting precast members.
Category: INFRASTRUCTURE

Route 744 Bridge over Bluestone River, Tazewell County

Features:
- Prestressed Concrete Adjacent Box Beam Bridge
- Span Length: 49’-9”; Overall Width: 18’-0”
- Corrosion resistant reinforcing (CRR) steel and low-permeability concrete were used for the bridge beams
- The first bridge constructed with new standard Virginia Adjacent Member Connection (VAMC) filled with Very High Performance Concrete (VHPC)
Category: Repair & Restoration

13 Pepper Street Retaining Wall

- Owner: Town of Christiansburg, VA
- Structural Engineer: Circeo Geo-Technical Services
- Prime Contractor: DCI Shires, Inc.
- Concrete Contractor: Albin Landscaping
- Concrete Supplier: Chandler Concrete
13 Pepper Street Retaining Wall
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13 Pepper Street Retaining Wall
Pepper Street Retaining Wall

Features:
- Versa-Lok segmental retaining wall units
- 3 colors used to mimic adjacent natural stone
- Stabilized aggregate concrete backfill
- Colored concrete borders and control joints
And the winner of the 2018 COMMONWEALTH AWARD
2018 Commonwealth Award

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2018 Commonwealth Award

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Congratulations to all award submittals and our award winner!

Start planning now!!

ACI Virginia will solicit 2019 Commonwealth Award candidates in the Fall.
Please remember to support the continued efforts of Virginia ACI – our group conducts certification classes and educational seminars throughout Virginia – ACIVirginia.org