

# SOUTHEASTERN CONCRETE MASONRY ASSOCIATION 2018 SYMPOSIUM

Hosted By: **Allied Concrete Products LLC** and **Tidewater Block**



**WHEN: NOVEMBER 15TH, 2018**

**TIME: 9:00AM - 4:00PM**  
(CONTINENTAL BREAKFAST 8:00-9:00AM)

**WHERE: HILTON SHORT PUMP, VIRGINIA**  
(CONTINENTAL BREAKFAST AND LUNCH WILL BE SERVED)

**ADDRESS: 12042 W BROAD ST, RICHMOND, VA 23233**

**PLUS  
5 CEU  
CREDITS**

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Many changes have occurred recently in the concrete masonry unit business: The changes to ASTM C90, the utilization of masonry mass wall and U values in COMcheck as well as development of NCMA's Direct Design software. But, September 4th the implementation in Virginia of the IBC 2015 codes will be significant.

Typically a change in building codes is not a big deal for block producers. But the new IBC 2015 impacts structural masonry construction in such a big way we view it as a game changer. The new Code increases  $f'm$  by 33% from 1,500 psi to 2,000 psi. Once embraced, this change drives out rebar spacing by as much as 50%, reduces the amount of grout, and greatly increases mason productivity. The result, a superior wall system that is ultra competitive.

Given the magnitude of these changes, The Virginia Members of the Southeast Concrete Masonry Association have pulled together industry experts to elaborate on the positive impact these changes have on the design and economic benefit.

## **SPEAKER TOPICS**

### **EVOLUTION OF CMU - (1 CEU)**

**JASON THOMPSON**, VICE PRESIDENT OF NCMA ENGINEERING

- IBC 2015 F'm
  - ASTM C90 Web Revisions
  - Design Implications with New IBC 2015
  - Unit Strength Recalibration Using F'm
  - Structural Impacts
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### **ENERGY CODE COMPLIANCE - (1 CEU)**

**BOB SULLIVAN**, DIRECTOR OF TECHNICAL SERVICES; CFIFOAM

- R-U Understanding
  - COMcheck
  - The Cure for Fat Walls
- 

### **STUDY OF INITIAL COST OF CONSTRUCTION MULTI-RESIDENTIAL STRUCTURES - (1 CEU)**

**WALTER SCHNEIDER III**, PH.D., CBO, MCP, CFO

- Construction Cost Model
  - Fire Code
  - Comparative Study of Common Multi-Family Residential Building
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### **BUILDING DESIGN & THE BUILDING CODE OFFICIAL - (1 CEU)**

**WALTER SCHNEIDER III**, PH.D., CBO, MCP, CFO

- Design Decisions
  - Significant Project Challenges
  - Potential Solutions to the Problem
  - Overcoming Project Challenges during permitting & construction
- 

### **MODEL DRIVEN CONSTRUCTION AND DESIGN FOR MASONRY - (1 CEU)**

**TOM CUNEIO**, PRESIDENT 3DIQ

**JASON THOMPSON**, VICE PRESIDENT OF ENGINEERING NCMA

- Masonry Modeling
- Bonding and Layout of Masonry
- Automated Masonry Sections
- Select Code Basis Options Ranging from 2006-2015 IBC
- Strength Design Methodologies
- Multiple Outlet Options Including Code-Referenced Design Calculations and Axial Load/Moment Capacity Interaction Diagrams

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**WALTER G. M. SCHNEIDER III**

Ph.D., P.E., CFO, MCP, CBO

Agency Director for the Centre Region Code Administration, a 25 person full service code agency administering a complete new construction code administration program for 7 municipalities and administering a comprehensive rental housing and fire code program for 6 municipalities in and around State College, Pennsylvania. He has both Bachelors and Master of Science degrees in Architectural Engineering and an earned Doctorate in Structural Engineering all from the Pennsylvania State University where he teaches senior level structural engineering design courses for the College of Engineering and the College of Agricultural Sciences. He currently is licensed to practice engineering in six states and holds certifications through the International Code Council and Pennsylvania Labor and Industry as a building code official. In addition, Dr. Schneider is very involved in local government and the emergency services, serving as a former member of Bellefonte Borough Council for four years, is the Chief of the Bellefonte Fire Department, is a hazardous materials technician with the Penn State Hazmat Team, a structural specialist with Pennsylvania Taskforce 1, and is a Pennsylvania State Suppression Instructor as a Pennsylvania State Fire Academy Adjunct Instructor and other local level ETA's.



**JASON THOMPSON**

Vice President of Engineering, NCMA

Jason Thompson is the Vice President of Engineering for the National Concrete Masonry Association. His duties and responsibilities include overseeing the technical activities of the association including research and development, design, construction, and testing standards development, design resources and tools, and creating and delivering seminars and lectures covering these subjects. Jason is also active in the development of building codes and standards for masonry structures and systems where he represents NCMA and the masonry industry through the Masonry Alliance for Codes and Standards.

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**BOB SULLIVAN**

Director, Technical Services, cfiFOAM, Inc.

A BS/CE-Construction Option from NC State in 1962 preceded Bob's 56 years technical & management career in the building products & construction industries. Among other responsibilities, Bob represented gypsum & insulation manufacturers to architects, contractors & distributors, and had leadership roles in developing interior partition systems, drywall finishing materials and innovative applications of mineral fiber insulation. Active for 20 years in the Insulation Contractors Association of America, he co-chaired the ICAA Technical Committee and Annual Conference & Expo, He was awarded ICAA's Key Man six times. Bob actively participates in NCMA committees and task groups, and freely shares his knowledge of insulation materials and systems with architects, general contractors, building & fire officials, energy utilities, and industry peers to their respective benefit.



**TOM CUNEIO**

President, 3DIQ

Tom Cuneio has been developing computer modeling solutions for masonry since 2004. His companies, CAD BLOX LLC and 3DiQ Inc. provide leading edge solutions for BIM in both construction and design. He is actively developing software and methods to help the masonry industry capitalize on the benefits of BIM technology. He is an honors graduate of the Mechanical and Aerospace program from the University of Missouri. tom@cadblox.com | 719.232.5570

