



SOCIETY OF
PLASTICS ENGINEERS

Plastics in Building and Construction

Special Interest Group

SPE Building and Construction Special Interest Group (SIG027) was Chartered in October, 2007. This group has 864 members currently representing over 450 companies and academic institutions. Our scope is to promote the dissemination of scientific, design, and marketing knowledge of plastics, polymers, and composites for the global building and construction industry, including residential, commercial, and infrastructure applications.

Objective:

The objective of Plastics in Building and Construction Special Interest Group is to provide and promote education and technology on the application of plastics in building and construction with specific emphasis on:

1. The investigation and understanding of the engineering properties of plastics suitable for their performance as structural components in building and construction products.
2. The relationships between part performance, physical properties and composition, structure, and processing variables.
3. Current trends in green and high efficiency buildings
4. Technical activities on universal testing codes and reporting of properties relevant to plastic performance for buildings and construction.
5. The growing multitude of ways that plastics serve the needs of today's challenging engineering demands in infrastructure.
6. Engineering technology related to plastics in B & C including fabrication processing, structure property relationships and performance in end-use applications will be emphasized. All classes of materials falling within the common definitions of structural plastics are pertinent.

The SIG will encourage the exchange of information and attempt to act as a resource for Society members for information on how to increase the understanding of plastic building materials through conferences, workshops, a newsletter and industry contacts facilitated through a focused group effort within SPE. These activities are designed to

provide a forum for the better understanding of below topics through the exchange of ideas and information:

General Information on Science and Technology:

- Performance evaluation of structural components
- Energy efficiency for buildings
- Alternative energy sources
- Thermal management for HVAC
- Weatherability and UV resistance technologies
- Bioplastics and plastics from renewable sources in building
- Recycled and post- consumer plastics
- Adhesives and reagents for repairing
- Self-healing materials for buildings and coatings
- Anti-ballistic coatings
- Photo voltaic materials and solar energy
- Flame retardant materials
- Building codes and specifications

Applications in Infrastructure uses:

- Concrete Reinforcement
- Re-bar: corrosion control
- Composite materials: bridges, docks
- Roads: asphalt modification & underlayment
- Erosion control
- Geomembrane
- Pipes and drains

Applications in Residential and commercial uses:

- Solar energy and solar shingles
- Photochromatic and insulating building glasses
- Siding
- Insulation
- Roofing
- Adhesives & Sealants
- House-wraps
- Fencing
- Landscaping
- Wiring
- Carpets and tiles
- Artificial Turf
- Windows and doors
- Weather-stripping
- Paints and coating
- Pipes, drains, gutters
- Faucets and plumbing
- Composite decking
- Sound abatement
- Fascia and trim
- Flooring
- Kitchen & Bath



SOCIETY OF PLASTICS ENGINEERS

ANTEC[®] @



Orange County Convention Center

March 23–25, 2015

Orlando, Florida, USA

Call for Papers

The Plastics in Building & Construction Special Interest Group welcomes papers for the coming ANTEC[®] 2015 conference, which will be co-located with NPE2015 and held on March 23-25 in Orlando, Florida.

Topics of the Plastics & Construction SIG may include:

- Thermal Management Technologies
- Bioplastics in Construction
- Reliability of Construction Materials
- FRP for Concretes
- PV Materials and Systems

Deadlines:

Paper Submission: September 26, 2014 - 5 PM Eastern (absolute deadline)

Paper Reviews: October 24, 2014

Final Paper Acceptance: December 5, 2014

Final Paper Revision: January 16, 2015

Authors must submit a Paper (saved as .pdf) and Abstract by the Paper Deadline in ANTEC[®] format.

Papers will be reviewed by the Technical Program Committee and Authors notified of status or required revisions by October 24, 2014.

Two submission formats: Technical; Commercial

Two presentation styles: Podium; Poster

Submit your abstract and manuscript via website: <http://antec2015.abstractcentral.com/>

Further information may be found at www.antec.ws.

Questions? Contact us:

Tammy Yang

ANTEC[®] 2015

Plastics in Building & Construction SIG

tyang@gaf.com

Dr. Joseph Golba

Technical Program Chair 2015

email: joseph.golba@polyone.com

Tel: +1 440-930-1782

Barbara Spain

Events Program Manager

email: bspain@4spe.org

Tel: +1 203-740-5418

Plastics in Building and construction Board of Directors

Chair

Abhishek Ambekar

Celanese,

Abhishek.ambekar@celanese.com,

Vice Chair

Hsinjin Edwin Yang

Pioneer Scientific Solutions, LLC

Yang.PioneerSS@gmail.com

Secretary and Communications chair:

Mark Barger

The Dow Chemical Company

Past Chair & Technical program chair

Tammy Yang

GAF Materials Corporation

Tyang@GAF.com

Co-Technical program chair:

Frank Popola

fjpopola@gmail.com

Newsletter Editor

Mukul Kaushik

Celanese

Mukul.Kaushik@celanese.com

Directors:

Lei Rao

Lonza lei.rao@lonza.com

Mike Hubbard

Firestone Building Products

hubbardmike@firestonebp.com

Donna Davis

ExxonMobil Chemical Company

donna.s.davis@exxonmobil.com

Rakesh Gupta

West Virginia University

Rakesh.Gupta@mail.wvu.edu

Manoj Nerkar

Queen's University

manoj.nerkar@gmail.com

Plastics in B & C SIG is open at no charge to current SPE members in related Divisions, as well as non-SPE members that are working or otherwise interested in the Building and Construction field. We are always looking for new Board members to help with planning and execution of various SIG activities such as ANTEC® sessions, fundraising and community events. The SIG Board meets face-to-face at ANTEC® every year, and by monthly teleconference. As an incoming member, we ask for a three-year commitment from you and your employer. In return, we provide good networking opportunities and a word of appreciation for your company in one of our newsletters. If you are interested in joining us, please contact Abhishek Ambekar at Abhishek.ambekar@celanese.com.