Complete sets of Technical Papers from past Annual Meetings are available on CD for $100 each. See the listing below of Technical Papers presented at each meeting and the market-focused committee that secured each paper.

Note: TRFA members can download and print complimentary copies of TRFA technical papers and presentations from the members-only website.

2009 Technical Papers:

- Advances in Epoxy Technology for Windmill Blade Composite Fabrication, Dow Chemical Company (Coatings, Civil Engineering, Flooring)
- Flame Retarded Thermoset Materials based on Phosphorus Chemistry, Clariant Corporation (Coatings, Civil Engineering, Flooring)
- Novel Toughened High Performance Vinyl Ester Resins, Hexion Specialty Chemicals (Composites & Tooling)
- New Products: XTA-770 and XTA-796 as Alternatives to AEP and ACCELERATOR™ Accelerator for Epoxy Resin Polymerization and Illustrations of Some Structure-Property Relationships, Huntsman Corporation (Composites & Tooling)
- Improved Low Temperature Performance of Epoxy Adhesives, CVC Thermoset Specialties (Coatings, Civil Engineering, Flooring)
- Next Generation Fire-Retardant Prepreg Formulation for Mass Transportation Applications, Gurit UK (Composites & Tooling)
- Storage-stable NDI Prepolymers: Elastomers with Superior Mechanical & Dynamic Load-Bearing Characteristics, Baulé USA (Potting, Encapsulation, Electrical)
- Behavior of Solid, Core-Shell-Rubber Nanospheres, Singly Dispersed in Thermoset Composites, Kaneka Texas Corporation (Composites & Tooling)
- Aliphatic 2-Component Polyurea and Hybrid-Polyurea-Polyurethane Sealants, Bayer MaterialScience (Adhesives & Sealants)
- High-Temperature Epoxies Enhanced by Polyhedral Oligomeric Silsesquioxane (POSS) Molecules, Hybrid Plastics (Composites & Tooling)
- Benzoxazine Technology and New Products from Huntsman, Huntsman Corporation (Potting, Encapsulation, Electrical)
- Polybutadiene Resins in Re-Entrable Encapsulants, Sartomer (Adhesives & Sealants)
- Opportunities for Thermoset Resins in the Wind Energy Market, Lucintel (Composites & Tooling)

2008 Technical Papers:

- Tailor-Made Polyhedral Oligomeric Silsesquioxane (POSS) Molecules for Thermoset Resins, Hybrid Plastics Inc. (Composites & Tooling)
- Novel Epoxy Toughening for Coatings & Composites Applications, Dow Epoxy (Coatings, Civil Engineering, Flooring)
- Nanostrength Block Copolymers for Epoxy Toughening, Arkema Inc. (Coatings, Civil Engineering, Flooring)
- Silica Nanoparticles & Rubber Toughening – a Synergy in Adhesives & Composites Applications, nanoresins AG (Coatings, Civil Engineering, Flooring)
- Mixed Mineral Thixotropes – A New Class of Additives for Molded Thermoset Systems, Southern Clay Products (Coatings, Civil Engineering, Flooring)
- Opportunities for Thermoset Resins in the Composites Industry, Lucintel (Composites & Tooling)
- Structural Strengthening of Concrete with FRP Composites, Sika Corporation (Coatings, Civil Engineering, Flooring)
- Healable, Shape Memory Polymers for Reflexive Composites, Cornerstone Research Group (Composites & Tooling)
- Novel Latent Curing Agents for Thermoset Resin Applications, Air Products & Chemicals (Coatings, Civil Engineering, Flooring)
- Nylon Nanocomposites in Flexible Packaging Applications, Nanocor (Composites & Tooling)
- Alternatives in Toughening, CVC Thermoset Specialties (Adhesives & Sealants)
- Innovative Amine Curing Agents for Epoxy Resins, Hexion Inc. (Coatings, Civil Engineering, Flooring)

2007 Technical Papers:

- Advances in Intumescent Coatings, Broadview Technologies (Coatings, Civil Engineering, Flooring)
- Wood Composite Overlay, CPD Construction Products (Coatings, Civil Engineering, Flooring)
- Low Emission Epoxy Vinyl Ester Resin in Pultrusion, Ashland Performance Materials (Composites & Tooling)
- Green Chemistry Does Not Fear Humidity in a Floor (Cardolite Corporation)
- Fast Curing Polyurea Sealants; Controllable Reactivity with Commercially Available Secondary Amines, Bayer Material Science (Adhesives & Sealants)
- Demonstration of Military Composites with Low Hazardous Air Pollutant Content, US. Army Research Lab (Composites & Tooling)
- Joining of Medical Plastics Using Atmospheric Discharge Pretreatments of Adherents Prior to Adhesive Bonding, Enercon Industries Corp. (Adhesives & Sealants)
- Regulatory Affairs/VOC Update, Air Products & Chemicals (VOC Task Force)
- A New Cycloaliphatic Amine for Coatings and Composites Applications, Dow Chemical Company (Coatings, Civil Engineering & Flooring)
- Thermoset Curing Schedule and its Affect on the Final Properties, Mettler-Toledo (Composites & Tooling)
- Cycloaliphatic Epoxy Resins, Huntsman Advanced Materials (Potting, Encapsulation, Electrical)
2006 Technical Papers:

- **Fast Curing Anticorrosion Primers for Steel Protection**, Cardolite Corporation (Adhesives & Sealants)
- **(Meth)Acrylic Structural Bonding in Modern Vehicle Assembly**, Henkel Corporation (Non-Epoxy)
- **Thermal Degradation of Carbon Fiber/Cyanate Ester Resin Composites Filled with Clay Silicate Nanoparticles**, University of Delaware Center for Composite Materials (Composites & Tooling)
- **A Novel Polyfunctional Epoxy Resin with High Heat Resistance and Mechanical Properties**, Aditya Birla Chemicals (Thailand) (Composites & Tooling)
- **Garage Floor Coatings: Identifying Waterborne Epoxies with Optimum Handling and Performance Properties**, Air Products & Chemicals (Adhesives & Sealants)
- **Long Term Durability Testing Machine for CPD Polymer Flooring**, CPD Construction (Coatings, Civil Engineering, Flooring)
- **Novel Epoxy Toughening Technology**, The Dow Chemical Company (Coatings, Civil Engineering, Flooring)
- **Thermoset Epoxy Polymer Concrete for the Fabrication of Chemical Containment Vessels**, Cappar Limited (Coatings, Civil Engineering, Flooring)
- **Thermoset Resins in Production Boatbuilding**, Pro-Set Epoxy (Composites & Tooling)
- **Growing More Ductile Epoxies: An Essential Work of Fracture Study**, Stonhard Division of the StonCor Group, Inc. (Adhesives & Sealants)
- **The True Polyurea Spray Elastomer Story: Chemistry, Advances and Applications**, Primeaux Associates LLC (Coatings, Civil Engineering, Flooring)
- **Azyralys: New Polybenzoxazine Chemistry for Building Composites**, Huntsman Advanced Materials Division (Potting, Encapsulation, Electrical)
- **Formulating High-Performance Waterborne Epoxy Coatings**, Hexion Specialty Chemicals (Coatings, Civil Engineering, Flooring)
- **Effect of Index on Curing Kinetics and Rheology of Polyurethane Gels**, Huntsman Polyurethanes (Coatings, Civil Engineering, Flooring)

2005 Technical Papers:

- **New Developments in Polyetheramine Curing Agents**, Huntsman Advanced Materials (Coatings, Civil Engineering, Flooring)
- **Epoxy, Urethane, Silicon: Choice of Encapsulate for High Reliability Magnetic Components**, Sandia National Laboratories (Potting, Encapsulation, Electrical)
- **New Concept of Water Based Epoxy Adduct for Water Reducible Epoxy Formulation Dimensionally Stable and Shape Retentive**, Cognis Italy S.p.A. (Coatings, Civil Engineering, Flooring)
- **Kaneka Core-Shell Toughening Agents for Thermosetting Resins**, Kaneka Texas Corporation (Composites & Tooling; Adhesives & Sealants)
- **Utilizing a Design of Experiments Approach to Nonskid Coating Formulation**, Applied Research Lab, Penn State University. (Coatings, Civil Engineering, Flooring)
- **Di- and Tri-functional Epoxides as Reactive Diluents in Epoxy Systems**, Royce International (Potting, Encapsulation, Electrical)
- **Epoxy systems for Applications Below Zero Degrees Celsius**, Huntsman Advanced Materials (Potting, Encapsulation, Electrical)
• The Chemistry and Application of Intumescent Agents for Use in Epoxies and Self Crosslinking Styrene-Acrylic Monomers, Broadview Technology (Coatings, Civil Engineering, Flooring)
• Nanostrength™ Block Copolymers: Improving Toughness on the Nanometer Scale, Arkema Inc. (General)
• Higher Performance Raw Materials for Improved Polyurea Properties, The Hanson Group LLC (Coatings, Civil Engineering, Flooring)
• Novel Waterborne Epoxy Curing Agent Technology, Air Products & Chemicals (Coatings, Civil Engineering, Flooring; Adhesives & Sealants)

2004 Technical Papers:

• Epoxy Resin Infusion Systems for Large Scale Composites, Jeffco Products (Composites & Tooling)
• Selecting the Appropriate Performance Additives, Material Apps LLC (Adhesives & Sealants)
• Post-curing Effects on VARTM FRP Composite Material Properties, Virginia Tech (Composites & Tooling)
• Bonding of Epoxy Encapsulants to Thermoplastic Substrates, Huntsman Advanced Materials (Potting, Encapsulation, Electrical)
• Global Epoxy Market Dynamics, The Dow Chemical Company (General)
• Vortex Mixer, State Mix (Potting, Encapsulation, Electrical)
• New Water Based Amine Technology for Epoxy Application Over Green Concrete, Air Products & Chemicals (Coatings, Civil Engineering, Flooring)
• Productivity on Purpose: A marriage of chemistry and machinery keeps inline skate wheel production in the United States, ITWC Inc. (Potting, Encapsulation, Electrical)
• Nonskid Coating Formulation Utilizing a Design of Experiments (DOE) Approach, Applied Research Lab, Penn State University (Coatings, Civil Engineering, Flooring)
• Adhesives and Potting Compounds for High Service Temperature in Automotive Electronics Applications, Emerson & Cuming (Potting, Encapsulation, Electrical)
• Properties & Effects of Chemically Modified Bis A Epoxy Resin for Cure Acceleration, CVC Specialty Chemicals (Coatings, Civil Engineering, Flooring)

2003 Technical Papers:

• Phenalkamines in Concrete Applications, Cardolite Corporation.
• Polyurea Overview, Sherwin Williams/General Polymers.
• Novel Technology for Water Vapour Permeable Floor Coatings, Air Products & Chemicals
• Overmolding Material & Process for Electronic Module Assemblies, Bayer Corporation.
• The World of Epoxy Adhesives, DPNA International Inc.
• The Fracture Behavior of Filled Epoxies, Lehigh University.
• Secondary Amines for Aliphatic Polyurea Polymers, Huntsman Corporation.
• Fluorescent UV Weathering Devices (QUV) vs. Xenon Weathering Devices (Q-Sun), Q-Panel.
• Anti-Float Technology for Floor Coatings – A Seamless Solution, Rebus, Inc.
• Reactive Resins: Uses in Construction, Sika Corporation.