

Adopting Disaster Resilient Construction at the Local Level



Sponsored by The Concrete Joint Sustainability Initiative (CJSI)

Presenter Biographies August 2012



Dean Frank, P.E., LEED GA

Dean Frank is Director of Quality & Sustainability Programs at the Precast/Prestressed Concrete Institute (PCI). He has been with PCI since 2006.

Mr. Frank previously served as Director of Technical Services and Director of Industry Standards at the National Precast Concrete Association (NPCA). Among his many job duties at NPCA Mr. Frank coordinated the NPCA Plant Certification

Program which experienced tremendous growth during his six-year tenure – growing from approximately 80 plants to well over 300.

Prior to joining NPCA, Mr. Frank was a consulting engineer with Wiss, Janney, Elstner Associates, Inc., which provides specialized services on a variety of structures including buildings, bridges and tunnels.

Mr. Frank is currently serving as Immediate Past Chairman of ASTM International Committee C27 on Precast Concrete Products and is active on nine ASTM committees. He is also a member of the American Society of Civil Engineers (ASCE), the American Concrete Institute (ACI), including Committee 130 on Sustainability, and the International Code Council (ICC) Exam Development Committee for Reinforced/Prestressed Concrete Special Inspection.

Mr. Frank holds a Master's Degree in Civil Engineering from the University of Colorado at Boulder, is a licensed Professional Engineer in both Colorado and Indiana, and is accredited as a LEED Green Associate from the Green Building Certification Institute.



Claude Goguen, P.E., LEED AP

Mr. Goguen has been the director of technical services at NPCA since 2008 and has more than 17 years of experience in the precast concrete and construction industry. He provides technical support; development of technical documentation; and acts as staff liaison to various product committees.

Mr. Goguen serves on ASTM E60 committee on sustainability and on ACI 130 Sustainability of Concrete Committee. Claude is the staff liaison on the NPCA Sustainability Committee and has written articles on resilience of precast concrete and. Prior to his role with NPCA. Claude was an operations manager at a precast concrete manufacturing plant.

Mr. Goguen holds degrees in Civil Engineering and is a licensed P.E. in Indiana and a licensed P.Eng in Canada. Claude is also a LEED Accredited Professional.



Lionel Lemay, PE, SE, LEED AP

Mr. Lemay is Sr. Vice President, Sustainable Development for the National Ready Mixed Concrete Association (NRMCA). He manages programs that assist producers, contractors, and designers transform concrete manufacturing and construction to improve overall sustainability of the concrete industry. He also manages programs to educate concrete industry professionals, engineers and architects on the proper use and design of concrete for buildings, parking areas, roadways, and other applications.

Mr. Lemay has written numerous articles on concrete construction and is co-author of the McGraw-Hill book *Insulating Concrete Forms for Residential Design and Construction*. He provided technical input and reviewed concrete related section to FEMA documents on design of safe rooms and storm shelters.

Mr. Lemay is a Registered Professional Engineer and Structural Engineer in the State of Illinois. He is also a LEED Accredited Professional. He holds a bachelors and masters degree in civil engineering and applied mechanics from McGill University in Montreal, Canada.



Fred Malik

Fred Malik is the FORTIFIED Programs Manager at the Insurance Institute for Business & Home Safety. He is responsible for overseeing the day to day operations of the programs, which span all 50 states. Since taking over the program in 2009, Fred has been responsible for overseeing FORTIFIED's expansion to include new residential, new light commercial and existing residential building standards. With an MBA from Virginia Tech, more than 17 years of construction experience, beginning as a builder in Northern Virginia, and having had his work featured on national programs including Extreme Makeover: Home Edition and Bob Vila's Home Again, Fred is an expert on mitigation, its value and practicality. Fred lives in Vero Beach, Florida with his wife and two children.



Tien Peng, LEED AP+, CGP, PMP

Mr. Peng is the National Ready Mixed Concrete Association's Senior Director, Sustainability, Codes and Standards. Based in San Francisco Bay area, he monitors and provides input to building code updates as well as sustainability protocols to ensure design professionals and legislators are aware of concrete as a durable, long-lasting material that meets the needs of sustainable strategies.

Peng is a long-time advocate of sustainability, promoting green building and social responsibility to various industries from housing to microfinance to community planning. Prior to joining NRMCA, he consulted with private and non-profit organizations on capacity building as a way to sustainability and profitability.

Over the past two decades, Mr. Peng has been involved in codes and standards as a means to ensure buildings and facilities are safe, healthy, and energy efficient. He advised the Washington State Legislature on building code adoption as a member of the State Building Code Council. He also facilitated the creation of the LEED Homes rating system for the US Green Building Council (USGBC) as well as the Integrative Design Process Standard release by the American National Standards Institute.

Peng holds a master of architecture from the University of Houston and a bachelor's degree in mechanical engineering from the State University of New York at Stony Brook. He is also a certified CalEMA Post Disaster Safety Assessment Evaluator.



David D. Shepherd, AIA, LEED AP

David Shepherd is Director - Sustainable Development for the Portland Cement Association (PCA). In this role, he oversees the advancement and integration of sustainable development initiatives for the cement industry to support education, promotion, advocacy standards development and research, for the buildings and paving markets.

Over the past three decades, Mr. Shepard has been involved in the construction industry in a variety of capacities. His career history includes:

- Construction management and acquisition analyst for a national real estate investment firm
- Co-founder and principal of a residential Design/Build firm
- Project manager for a commercial General Contractor.

Currently, Mr. Shepard is the PCA national liaison with the United States Green Building Council, a member of the American Institute of Architects, and a past Sustainable Development Board Advisory Committee for the American Concrete

Institute. Currently, he is an active member of the Steering Committee for the industry's Concrete Joint Sustainability Initiative.

In 2010, he was identified as one of the concrete industry's Top Influencer by Hanley Wood's Concrete Construction magazine. Mr. Shepard is a licensed architect in Illinois and Wisconsin, as well as a LEED Accredited Professional.



Stephen Szoke, P.E., FACI, LEED AP, CDT

Mr. Szoke is Director of Codes and Standards for the Portland Cement Association in Skokie, Illinois. He is a strong proponent for mandatory enhancements of the functional resilience as an integral part of high performance buildings and disaster resistant communities. He developed and implemented a strategy to integrate increased durability and disaster resistance along with the more typical aspects of sustainable building design and construction in one comprehensive package referred to as the High Performance

Building Requirements for Sustainability. He is engaged in the activities of the National Institute of Building Sciences High Performance Building and Multi-Hazard Mitigation Councils. He recently participated in several, invitation only, Natural Hazard Mitigation Association, Federal Emergency Management and Department of Homeland Security programs designed to identify criteria strategies and roadmaps for integrating enhanced resilience into building design and construction.

Mr. Szoke's accomplishments and activities related to sustainability and resilience include past chair and honorary member of the Sustainable Building Industry Council; active participation in the development of International Code Council codes and standards and he recently served on the ICC Sustainable Buildings Technology Committee which developed of the draft version of the *International green Construction Code*; ASTM Committee E60 on Sustainability and ASTM E05 on Fire Standards; and ACI/TMS Committees 122 Energy Efficiency of Concrete and Masonry Systems and 216 on Fire Resistance and Fire Protection of Structures. He is also involved in leadership related to codes and standards activities of the American Society of Civil Engineers Structural Engineering Institute.

Mr. Szoke graduated with a Bachelor's of Science degree in Civil Engineering from Lehigh University, in his native state of Pennsylvania. He is a register professional engineer in Virginia and the District of Columbia. Steve is a fellow of the American Concrete Institute, a LEED Accredited Professional and Construction Specifications Institute Construction Documents Technologist.



John B. Turner, CSP, PE

Mr. Turner is the Greater Southwestern Region Manager for the Concrete Reinforcing Steel Institute, having held that position since March 2009. Prior to coming to CRSI, he was a structural engineer with several Dallas-area firms. He has design and repair experience with wood, reinforced concrete, and steel structures, including buildings in moderate seismic zones and hurricane prone regions.

Prior to his current structural engineering career, John was a safety and fire protection engineer, including work on the Space Shuttle Main Engine Testing Program at Stennis Space Center, as well as with Lyondell Petrochemical, and AT&T Microelectronics. John has developed and presented adult education programs for about 20 years, including several years as an instructor for the OSHA Training Institute and the Texas Engineering Extension Service. John has additional experience with fire and emergency medical services, has done hurricane damage assessment, and has spent part of his structural engineering career doing forensic structural engineering, including work with windstorm damage.

John is currently chairs the Technical Activities Committee for the Dallas Chapter of the Structural Engineers Association of Texas (SEAoT), and is Chapter President for the Northeast Texas Chapter of the American Concrete Institute. He has just begun work with SEAoT to further develop state and local Structural Engineers Emergency Response programs in Texas.

John holds a bachelor of science in safety engineering from Texas A&M University and a master's of science in civil engineering from Texas Tech University. He maintains designation as a Certified Safety Professional and is a licensed Professional Engineer (structural) in Texas.



Tyler Witthuhn

Tyler Witthuhn represents the National Concrete Masonry Association (NCMA) as a Projects Engineer. In this capacity, he manages research projects related to concrete masonry research and development. He also handles technical inquiries, assists in the Research and Development Laboratory, assists with NCMA technical publications, and participates as staff liaison to NCMA task groups and subcommittees.

Mr. Witthuhn has previously worked in multiple different industries including architectural lighting, CAD drafting, and computer modeling. In these capacities he worked with designers, producers, vendors, and fabricators; developing understanding of and providing technical assistance too each separate industry.

Mr. Witthuhn received his Bachelor's degree in Civil Engineering from Washington State University in Pullman, Washington. There he focused on structural design while minoring in mathematics.