



The CTIAC was established within the Structures Laboratory (SL) of the Waterways Experiment Station (WES). It has gathered, analyzed, evaluated, condensed, and published reports on the state-of-the-art in a number of areas related to concrete technology. The CTIAC draws on the technical expertise of the experienced engineers and scientists on the SL staff, who are experienced in a wide variety of disciplines, including chemistry, physics, civil engineering, materials science and engineering, and structural engineering.

The CTIAC and its staff, draw upon the work of such groups as European Cement Association (CEMBUREAU), Portland Cement Association (PCA), American Concrete Institute (ACI), Transportation Research Board (TRB), American Society for Testing and Materials (ASTM), RILEM, National Institute of Standards and Technology (NIST), International Concrete Repair Institute (ICRI) for information on the latest technologies and materials. The staff maintains membership in those organizations where memberships are available, and participates in developing and reviewing reports on new products and emerging technologies of those organizations.

Special Tasks & Products

- Concrete Mixture Selection & Characterization, Olmsted Locks & Dam, Ohio River
- Evaluation of Barrier Cable Impact Pad Materials
- Evaluation of Nonlinear Constitutive Properties of Concrete
- Evaluation of Parameters Affecting Thermal Stresses in Mass Concrete
- Red River Waterway Thermal Studies Report 1, Concrete Mixture Selection & Characterization
- Selected Bibliography on Fiber-Reinforced Cement & Concrete
- Six Candidate Shock-Attenuating Material Systems for the Alternate National Military Command Center (ANMCC)

CTIAC's scope covers all aspects of concrete technology, including:

- Analytical Procedures
- Chemical Admixtures
- Chemical Analysis
- Construction Methods
- Deformation
- Degradation
- Evaluation
- Fracture Mechanics
- Maintenance
- Mineral Admixtures
- Nondestructive Testing
- Portland-Cement Grout Mixtures
- Rehabilitation
- Reinforced & Mass Concrete Materials
- Reinforcing Materials
- Repair
- Test Methods

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