

Code Development at AASHTO for FRP Composites

Virginia FRP Composites Showcase

Bristol, Virginia

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Subcommittee on Bridges & Structures

**T-6 Technical Committee for
Fiber Reinforced Polymer Composites**

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|-------------------------------|------------|------------|
| 1. Paul V. Liles (Chair) | Georgia | Region II |
| 2. Jiten K. Soneji (V. Chair) | Deleware | Region I |
| 3. Arthur P. Yannotti | New York | Region I |
| 4. Marcus Ansley | Florida | Region II |
| 5. Shyam Gupta | Missiouri | Region III |
| 6. Timothy J. Keller | Ohio | Region III |
| 7. Kevin Thompson | California | Region IV |
| 8. Benjamin Tang | FHWA | Ex Officio |

Main Areas of Interest

1. External FRP Repairs
2. Composite Decks
3. Composite Reinforcement
4. Seismic Retrofit
5. Pedestrian Bridges

External FRP Repairs



External FRP Repairs

ACI 440.2R-02

Emerging Technology Series

Guide for the Design and Construction of Externally Bonded FRP Systems for Strengthening Concrete Structures

Reported by ACI Committee 440



american concrete institute

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Proposed Design Specifications for External FRP Repairs

NCHRP Project D10-73
which is underway now

- **For Proposed AASHTO Specifications**
- **LRFD Format**

Composite Decks



Composite Decks

FHWA Contract with

Ga Tech

&

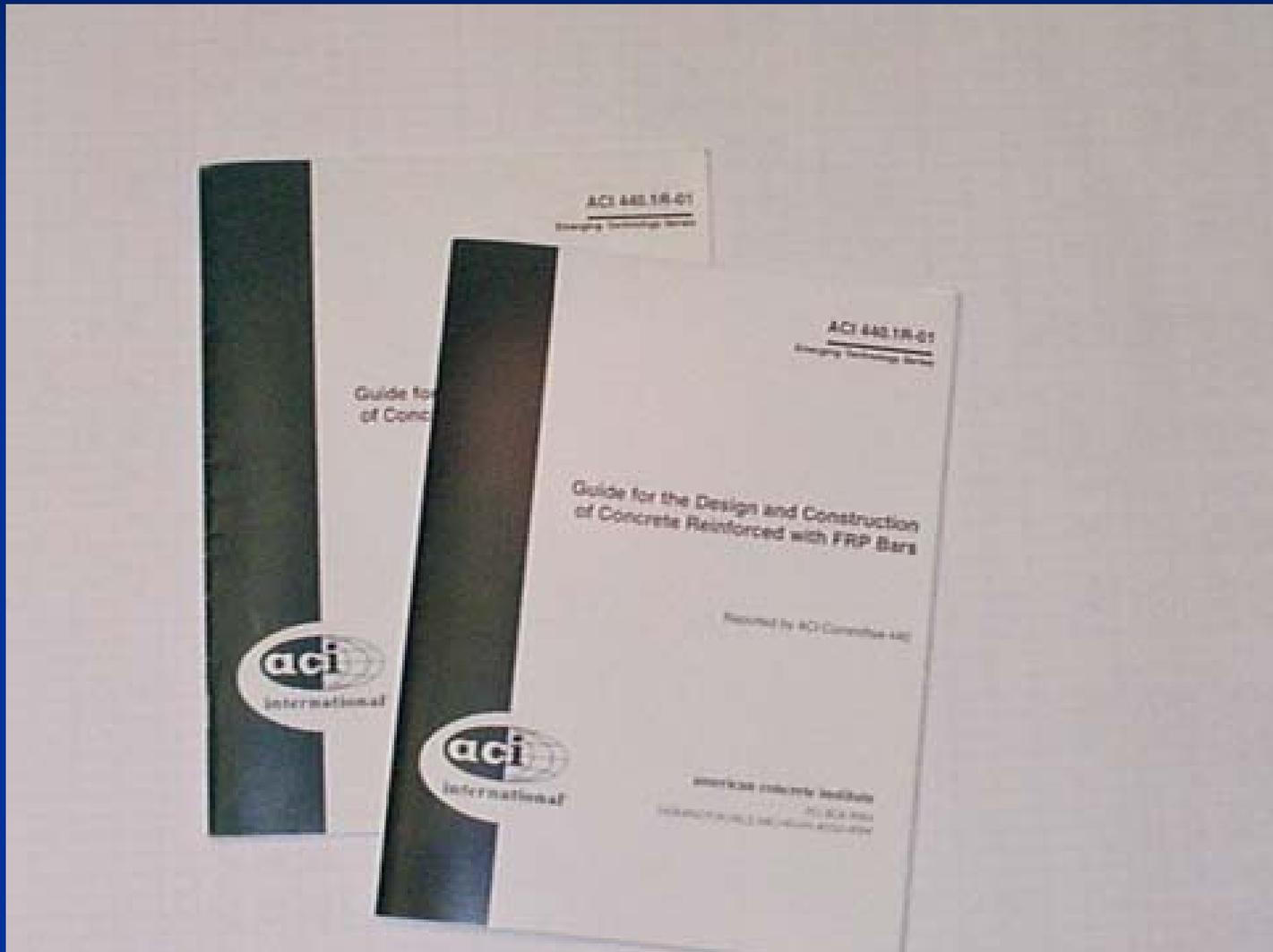
West Virginia University

- Performance Specification
- Covers Design, Manufacture, and Installation

Composite Reinforcement



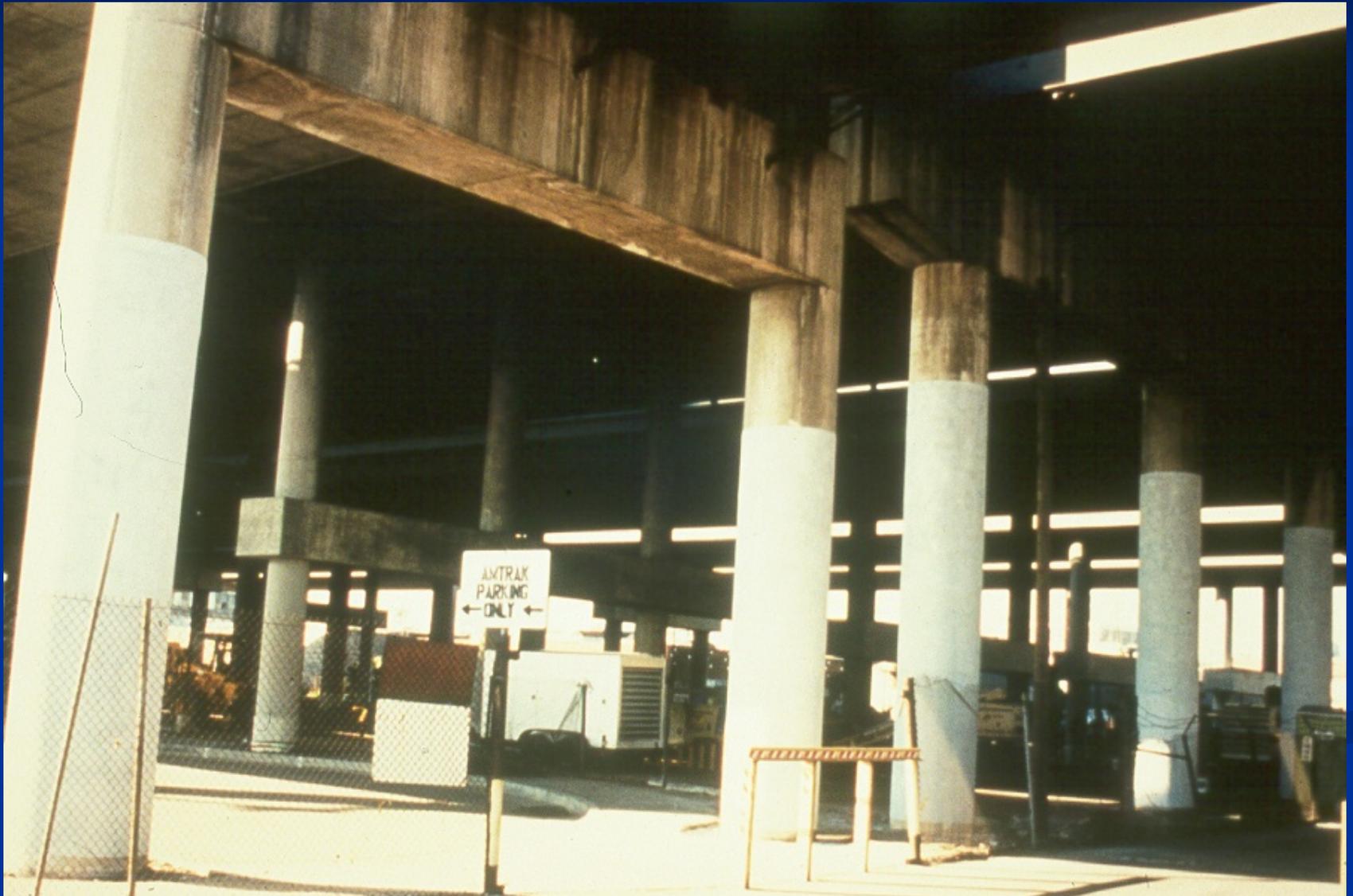
Composite Reinforcement



Composite Reinforcement

- ACI Publications
- No AASHTO Activity at this Time

Seismic Retrofit



Seismic Retrofit

CalTrans has Specifications
but AASHTO does not
have anything underway
at this time

Pedestrian Bridges



Pedestrian Bridges

- Proposed AASHTO Specification
- Based on AASHTO Guide Specifications for Pedestrian Bridges
- Should be Adopted in 2007

Conclusions

- These are the major thrust areas of the AASHTO T6 Committee at this Time
- You should continue to see activities from the AASHTO Bridge Committee involving FRP Composites