

TRANSPORTATION RESEARCH BOARD
AFP00(1) Joint Section Subcommittee on Geotechnical Asset Management of AFP00 and AFS00

2020 Annual Meeting Minutes

Monday January 13, 2020

6:00pm – 9:30pm

SUBCOMMITTEE BUSINESS

1. Welcome and Introductions, approval of 2019 minutes.
2. Review of the organization of the GAM Subcommittee by Scott Anderson (Co-Chairs Scott Anderson and Darren Beckstrand, Deputy Chairs Michael McDonnel and Michelle Mann, Committee Research Coordinator Aine Mines)
 - a. Final location of GAM Subcommittee in the new TRB organization is still unclear, but it will remain a sub-committee.
3. Discussion of the TRB-GAM website (<https://trb-gam.weebly.com>) which contains information on the committee, past meeting files, links to pertinent research, and news (Darren Beckstrand)
4. Silas Nichols, FHWA discussed:
 - a. As of 2019, all states have developed transportation asset management plans (TAMPS) with the next set of TAMP updates set for 2022.
 - b. Most of these TAMPS did not include geotechnical assets, but incorporation is encouraged for the next update
 - c. FHWA is hopeful that the FAST Act will be reauthorized this fall, with an encouragement to add a GAM focus in the 5-group system
 - d. NCHRP GAM Implementation Manual (NCHRP Report 903) has been completed and published, and includes a list of 4 asset classes
 - e. GeoComp is completing a study on risk-based protocols on MSE walls
 - f. Following completion of Unstable Slope Management app and manual, FHWA is working to broaden some asset definitions in this research
 - g. Late spring/early summer training courses targeted for standardized data
5. Past Business Overview (Scott Anderson)
 - a. The 2019 HGS meeting in Portland, Oregon
 - b. Over 800 downloads of GAM Implementation Manual (NCHRP 24-46) since publication
 - c. Final report for legal study “Potential Liability Associated with Unstable Slope Management” (NCHRP 20-06/Topic 24-02) was submitted on 12/31/2019 and will be available to public shortly
 - d. New CIRIA report from United Kingdom with a case study of geotechnical asset decay
 - e. NCHRP Problem 2021-D-06 has a comment from FHWA and a review to be addressed within next week.
6. Dr. Anand Puppala, AFS Section Chair discussed:
 - a. Although this group will remain a subcommittee in the new TRB organization, there is a desire to see it transition to a full committee in the future
 - b. Theme for 2021 TRB Meeting will be “Launching a New Century of Mobility and Quality of Life”

- c. Provided an overview of changes to the papers process for TRB to encourage increased participation
 - d. Overview of new TRB structure, which is outlined in the following website: <http://www.trb.org/AboutTRB/TADStrategicAlignment.aspx>
- 7. Review of work advanced/supported by the subcommittee:
 - a. Synthesis awarded in 2019 (Estimating and Contracting Rock Slope Scaling Adjacent to Highways – Topic 50-13 and Advances in Unstable Slope Instrumentation and Monitoring – Topic 50-06) are nearing completion and will be released by TRB shortly.
 - b. Legal study NCHRP 20-06/Topic 24-02, Potential Liability Associated with Unstable Slope Management Programs is also largely completed, with final publication anticipated shortly
- 8. Review of upcoming conferences with GAM component
 - a. Geo-Congress 2020 in Minnesota
 - b. HGS in Asheville, North Carolina; September 2020
 - c. AEG National Meeting in Portland, Oregon; September 2020

RESEARCH NEEDS DISCUSSION

1. Will reply to comments on Deterioration Rates and Life-Cycle Costs for Geotechnical Assets (NCHRP Problem Statement 2021-D-06) currently under review
2. FHWA is putting together a report on the status of state GAM programs, broad interest in developing a better understanding of where states are in the process, challenges/solutions
 - a. Puerto Rico peer exchange highlighted this interest
3. Based on group discussion, given the current state of rapid change in GAM implementation, there is more benefit from advancing a seminar or workshop at TRB 2021 as opposed to submitting a specific research need statement
 - a. Session topic: How to share data collection methods between states?
 - b. Workshop topic: successful/proactive asset management examples, followed by break-out discussions
 - c. Session topic: How are states successfully using their GAM programs to get repairs funded?
 - d. Following group discussion, 3a will be revisited in the future, build a session proposal from topic 3b, and 3c will be incorporated into the committee agenda for 2021.
4. Potential need for future synthesis on various geotechnical asset failure types, relative likelihood of failure type, and relative risk associated with each failure type
5. To advance GAM, determine how to get the work of this subcommittee integrated into the TAM portal/online guide associated with the TAM Manual update (NCHRP 08-109; tamportal.com)

PRESENTATIONS:

1. GAM Implementation In Various States:
 - a. Tennessee DOT's GAM Program (Robert Jowers)
 - b. Louisiana's GAM Program (Gavin Gautreau)
 - c. Missouri DOT Initiation of GAM Program (Jen Harper)
 - d. Minnesota Statue Requires Resilient Transportation Support by Geotechnical Assets (John Siekmeier)

2. Research Updates and Future Needs

- a. Upcoming new version of AASHTO TAM Guide and potential ties to Geotechnical Asset Management (NCHRP Project 08-109)
- b. Potential Liability Associated with Unstable Slopes Management Program – NCHRP 10-06 Legal Study update (Timothy Wyatt)
- c. Using Photogrammetry for Masonry Wall Monitoring (Lexi Hain)
- d. Decision-support and asset management from 3-D change maps: making simple bets from sophisticated data (Dave Gauthier)

ADJOURNMENT