

FTBA Safety Committee

Meeting Minutes

June 20th, 2019

Leadership Team Conference Call



Attendee	Company	Phone	E-mail
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Bryan Stone	Superior Construction	(904)292-4240	bstone@superiorconstruction.com

Upcoming Dates:

- July 18th- FTBA SC Meeting
- July 25th- FTBA Orlando Social
- **August 8th-August 11th**
FTBA Annual Convention

Meeting Minutes

1. Opening Discussion/Updates

A. Overview of meeting goals:

- Discuss what was learned during visit to FIU's virtual reality lab.
- Finalize a plan for posting content to the FTBA SC's website.
- Generate some strategies for increasing FTBA SC membership
- Review FTBA SC accomplishments/progress and next steps
- v. Amended: Confirm dates and location for OSHA 10-Hour Course for Spanish Speakers**

2. Tour of FIU's Virtual Reality Lab

- Phillip, Mark, and Alison met with Nipesh Pradhananga at Florida International University's Virtual Reality Lab (vital.fiu.edu) to experience and learn about research being conducted

and breakthroughs in virtual reality and informatics at it applies to human behavior in the construction industry. The following technologies and concepts were featured:

- i. *Wall-mounted VR Systems* that can be used to simulate a construction site (which can be mapped using photographs taken from an actual construction site). This system can be used to practice identifying jobsite hazards and to train equipment operators virtually.
- ii. *Head-mounted VR Systems* that can be paired with hardware (computer, steering wheel, accelerator, brake, etc...) to simulate equipment operation in various settings and with the added challenge of jobsite hazards.
- iii. *Cardboard headset VR devices* are an inexpensive alternative in which users can view a 3-D video online using a cellphone which is placed in the headset to simulate equipment operation.
- iv. *Physiological Sensing Devices*

- Galvanic Skin Response measurement is being used to study the relationship between hazard avoidance during equipment operation and emotional response.
- Nipesh and his team are working with avatars modeled after actual people to gather data about posture especially during bending and how it may impact an individual's musculoskeletal health overtime. Data can be collected in real-time as a person's avatar is monitored as he/she performs work-related tasks to provide feedback about how posture can be improved.
- Eye-tracking technologies are also being explored to show patterns in the way that workers analyze jobsites when looking for hazards. Data is provided about the amount of time spent looking at a particular area as well as the patterns in which different people move their eyes when scanning the jobsite.

B. How can the FTBA SC help make these technologies accessible to its members and others in the industry who will benefit from them?

- i. Provide links to these resources on the FTBA SC webpage
- ii. Form a partnership with FIU's VR construction research team in which both parties benefit (the University has access to workers in the industry representing a broad range of experience levels, ages, and other demographics to help gather more accurate and meaningful data for its research while the FTBA SC and those affiliated with it get access to cutting-edge training).

3. FTBA SC website

A. The website is completed and is available to view (<https://www.ftba.com/ftba-safety-committee>). The first Blog post, provided by Mark, is about Aerial Lift Safety and has been posted to the page. There is also a link to direct people to our LinkedIn page to encourage discussions in which people can "Ask the Experts."

B. Postings to the FTBA SC webpage will be approved by Mark Ligon or Phillip Russell. Once approved, they will be sent to Jamie Bertoch who will send them to the FTBA for posting on the page.

4. Increasing Membership and FTBA SC's presence at the annual convention.

A. Phillip will attend the convention and is planning to set up an informational booth.

i. Partnering with ARTBA at the booth with the goal of increasing awareness about the importance of the SCTPP certification is an option that may benefit both groups.

ii. Gaining the membership of a DOT member/members would be very beneficial to the Safety Committee.

iii. Phillip will highlight the achievements of the FTBA SC thus far and discuss our future goals during the convention in an effort to increase membership and awareness about our cause. A survey was sent out to FTBA SC members to determine how many plan to attend to the conference and may be available to assist Phillip with increasing membership.

5. OSHA-10 Hour Course for Spanish Speakers

A. Bryan Stone has arranged an OSHA 10-Hour Course for Spanish Speakers. The course will be held at Skanska's main office (1551 Sandspur Road , Suite 200, Maitland, FL 32751) on 08-05-19 and 08-06-19 from 7am-4pm.

B. Please send participants from your organization and help spread the word to others who might be able to send participants. We would like as many people as possible to take advantage of this free training.

6. Conclusion

A. Essential next steps:

i. Utilize the upcoming FTBA convention to gain membership, focusing on FDOT members and members of other companies and organizations not yet represented.

ii. Gain support from FTBA executives to partner with FIU and its virtual reality in construction research team in an effort to make these technologies available to FTBA SC members and affiliates.