



PRESERVATION ENGINEERING TECHNICAL COMMITTEE

2020 Annual PETC General Meeting Virtual Meeting via Zoom September 29, 2020

Committee: Preservation Engineering Technology

Co-Chairs: Amy Woods, Rachel Will, Sarah Gray

Attendees: Approximately 33 people joined the meeting. See the participants list at the end of these minutes.

Meeting Minutes

Amy Woods called the meeting to order at 1:04 pm Central Time Zone. The Zoom meeting audio was recorded. Sarah Gray and Sean Barron recorded the minutes.

1. **Introduction - Co-Chairs, Past and Present** (Discussion Lead: Amy Woods)
 - Amy Woods introduced the past PETC co-chairs Tim Crowe, John Dumsick, and Tom Morrison. They have been sequentially rolling off the co-chair position, and Tom Morrison rolled off this year. All past co-chairs are still very active with PETC committees and activities. Amy thanked all past co-chairs for their continued support and engagement with PETC.
 - Amy Woods, Rachel Will, and Sarah Gray are the current PETC Co-Chairs. Sarah is our newest co-chair joining this year.
2. **PETC Communications** (Amy Woods)
 - PETC urges all members to visit our website: <https://www.apti.org/preservation-engineering>. The website has been updated with several PETC documents and information regarding our various initiatives and activities.
 - Communicating with PETC:
 - The best way to communicate with the PETC co-chairs, announce events, submit items, ask questions, etc. is to email petc@apti.org. The co-chairs monitor the email in-box and respond as quickly as possible.
 - PETC understands that some emails get caught in spam filters, so all members should occasionally check their spam folder for PETC emails.

- PETC has about 470 subscribing members, so we use APT's Constant Contact system to send emails and announcements to our members. PETC maintains our own spreadsheet with membership names and email addresses.
- Over the past year, PETC provided an article in the APT *Bulletin* regarding PETC's history, and there was a special issue on Preservation Engineering.
- PETC provides regular announcements in the APT Communique emails.
- PETC posts events via APT's social media accounts. Like or follow APT on LinkedIn, Instagram, Twitter, and Facebook!
- PETC member Stephen Kelley raised the issue that PETC communication is one-way from the Co-Chairs to members, or only to co-chairs. Members cannot communicate with other members of PETC via email or list-serve. Attendees discussed options for opening up intra-committee communication:
 - APT has told the co-chairs that we are not at liberty to share our list of names and emails. The co-chairs will reach out to the Board to ask about an approved method for intra-committee email or messaging.
 - Justin Spivey asked if PETC use Google Drive. He suggested that we keep a document that lists PETC member email addresses in our Google Drive that can be shared with PETC members.
 - Stephen Kelley will submit a memo regarding communications suggestions. PETC will submit the memo to the Board.
 - Via informal poll at the meeting, about 21 meeting attendees confirmed that they would like the PETC member list make available to all PETC members.

3. **PETC Survey** (Sarah Gray)

- It has been several years since PETC surveyed our members regarding PETC activities, initiatives, focus areas, and communications.
- PETC issued an online survey to PETC members in August 2020.
- PETC encouraged all meeting attendees to respond to the survey. The survey will be closed on October 31, 2020.

4. **Disaster Response Initiative (DRI)** (John Dumsick)

- John Dumsick, DRI co-chair, noted that DRI was formed in 2017 with Dean Koga's support after Hurricane Katrina and subsequent "red-tagging" of historic structures.
- Former DRI co-chair Nina Jean-Louis has moved from DRI to the APT board. Rachel Palisin, Payal Vora, and Adam Rush have joined as co-leads with John.
- PETC and DRI led a 2-day workshop at the APT 2019 Miami Conference to provide DRI training.
- Current work items:
 - Over the past 3 years, DRI has been involved with Heritage Emergency National Task Force (HENTF; <https://culturalrescue.si.edu/hentf/>).
 - Puerto Rico Earthquake Support: DRI requested and received \$5,000 from APT for travel to assist with disaster response.
 - Maintaining contact list for SHPOs and how can APT DRI assist the SHPOs in identifying sites where the APT funds could be used. Two sites in the US Virgin Islands have been identified, and the USVI needs help to use grants that they received. USVI would like receive training for local teams at their sites.
 - DRI is working with the APT Partnership and Outreach committee.

- DRI would like to host symposium at the 2021 APT Conference in Washington, DC, regarding Force Protection. See further discussion below.
- PETC supports DRI by sending e-blasts when DRI needs help and if/when APT members are needed to travel for disaster response.
- Members should contact petc@apti.org if you are interesting in joining DRI and/or if you are willing to travel for disaster response.

5. **David Fischetti Award** (Rachel Will)

- This is the 3rd annual award, and several papers were submitted for this year's award consideration. PETC thanks all award judges: Stephen Kelley, John Matteo, Rick Ortega, Patrick Sparks, Don Friedman, and Tim Crowe.
- The 2020 David Fischetti Award Winner is Mr. Tom Nehil, PE, for his article "Determining Design Stresses from Strength Values" that was published in *Timber Framing, the Journal of the Timber Framers Guild*, Number 127, March 2018.
- This year's winner and article, as well as past winners and articles, are posted on our website: <https://www.apti.org/david-fischetti-award>
- PETC encourages authors to submit their articles. Articles can be published by APT in the *Bulletin* or in non-APT publications.
- PETC acknowledges the need to hone the Fischetti Award criteria; PETC will work on that for 2021's award.

6. **2020 Student Design-Build Competition** (Rachel Will)

- This year's competition theme was Historic Timber Bridges. Thanks to all the PETC volunteers that helped the student competition!
- The PETC competition organizing committee, led by Sarah Van Domelen and Rachel Will, had to quickly transition to the virtual conference setting. Rachel noted that students really stepped up and put in hard work to transition to the on-campus build this year.
- Four teams were selected as the finalists: Carleton University, Columbia University, Texas A&M University at Kingsville, and University of Nebraska-Lincoln.
- PETC promoted the session dates for attendees to support the students during the competition, including the Student Presentations (pre-recorded presentations and videos of their bridge builds) and another session that included the bridge break videos and discussion of Preservation Problems (application to the real world).
- Thank you to this year's competition judges: Ed Gerns, Tim Crowe, Justin Spivey, John Dumsick, and Ed Meade.
- The 2020 Student Workshop was coordinated by Amy Woods and was conducted online during the week before the conference. The workshop included six speakers from the timber industry: Ron Anthony, Tim Crowe, Christopher H. Marston, Justin Dahlberg, Rudy Christian, and Laura Saeger.
- Visit PETC's website to see this year's winner (and past winners) and their videos: <https://www.apti.org/student-design-build-competition>

7. **2021 Student Design-Build Competition** (Sarah Gray)

- An option for an unreinforced masonry (URM) competition has been submitted to PETC for consideration. PETC is working to review this proposal, to assess if it can be moved forward to implement in 2021.

- If the URM option cannot be implemented, then the 2021 competition will be the Masonry Arch. PETC also hopes to do more virtual competition elements, so that we can engage with other national and international universities. We will provide more on this in our PETC News summaries in the coming months.
- PETC plans to use the IMI Training Center in Bowie, MD (just outside of Washington, DC) for the 2021 Student Workshop, which will be hands-on focused.
- If anyone is interested in getting involved with the student competition, please email us at petc@apti.org.
- Project loading to be either at Conference Hotel or the IMI Training center with video feed.

8. **2021 APT Conference Workshop and Symposium** (Amy Woods and John Dumsick)

Two-Day Workshop:

- PETC will submit an abstract to conduct a 2-Day Workshop regarding URM repair, restoration, and maintenance. The workshop will be coordinated by Amy Woods at IMI's Training Center in Bowie, MD (just outside of Washington, DC). The workshop will combine hands-on and virtual programming.
- Ideas from meeting attendees:
 - Shoring buildings after earthquakes (understand how buildings fail and how to shore them). Ric Ortega saw interesting work in Northern Italy.
 - John Cooke visited Pueblo, Mexico with Carleton University to review earthquake-damaged buildings, interventions, and how the interventions reacted with URMs.
 - Luca Nasi, Italian expert for shoring has published a book.
 - New Zealand case studies with URM evaluation and upgrades.
 - Portland URM symposium in 2019 with APT NW organized by Amy Woods.
 - Include a topic about proper/sympathetic ways to shore, brace, and/or retrofit URM.
 - Consider the audience for the workshop: PETC will have an engaged audience that “knows” to do the right thing. Considering targeting people or organizations who need to learn how to do the right types of URM interventions. Justin Spivey recommended marketing to other organizations via APT's Partnerships and Outreach committee. For example, invite folks on the code committees that may not understand heritage materials. Standards are written for contemporary materials. Also, local DC chapter of ASCE and local chapter of SEA.
 - Craig Bennett notes that masonry symposiums are big sellers.
 - Amy Woods and the organizers to look at multiple topics, and will look at the focus, marketing, etc.

1-Day Symposium:

- PETC will submit an abstract for a symposium regarding Force Protection for Historic Buildings. Force protection (“Building Hardening”) is protection buildings and people. The symposium will include lectures and project site visits in DC.
- Ideas from meeting attendees:
 - Install force protection in a sensitive manner, including blast protection. Some treatments are heavy-handed.

- Supreme Court building: Ric Ortega mentioned challenges with bollards, windows, etc. Moving the failure point from one element to another. Change the entrance method.
- Customs House (Ric Ortega) in Philadelphia: Ric Ortega is also familiar with this project.
- Old Executive Office Building: Stephen Kelley is familiar with this project.
- Oklahoma State Capitol: The Governor's suite was "ruined" by new window treatments
- Tom Morrison has Canadian examples.
- Patrick Sparks noted that he has a project example with DOD tests. He may be able to provide some info from Canada, including a Carleton University study.
- John Matteo noted that there is an opportunity to focus on the engineering, architectural decisions, visitor access. Technical, architectural and preservation – bring in all three perspectives.
- John Cooke mentioned the Government of Canada Bank Building and West Block projects, both of which included hardening.
- Consider layers for non-blast attacks: gas, poison, other forms of attack.

9. Open Discussion

- Don Friedman's Skyscraper book is available for pre-order. It includes 440 buildings in the appendix. <https://www.apti.org/bookstore>
- Tom Morrison noted the TEDxCAHP Countdown initiative related to Climate Change. Multiple events launch next week, including this one.
- Job postings: send to PETC@apti.org and we will get it posted to APT website job board. <https://apt.memberclicks.net/job-board>
- Stephen Kelley noted there is an upcoming session titled "Disaster Response in the Time of COVID: that will include North American, Asian, and European experiences; 2 hour session x 2 days.
- Rachel Will asked that PETC members contact the PETC Co-Chairs if you are interested in helping with any of our PETC initiatives. PETC needs expertise and "do-ers."
- Corey Spitzer is with APT's Strategic Plan Committee, which will be collecting info/survey regarding APT's strategic direction.
- The APT Northeast Chapter will be hosting a disaster symposium, with abstracts due October 12th. Content is expected to be virtual and non-virtual. More info is at <https://www.aptnet.org/2021-symposium-abstract-submission>
- Patrick Sparks mentioned that Virtual Workshop on Timber Bridges will be held in December. More info is at <https://historicbridgefoundation.com/>
- Amy Woods introduced some of PETC's younger members at the meeting:
 - Kai Shirey: Ball State student, student competition alumna and now on the PETC design-build task force.
 - Arlin Otto: Co-chair for the student competition.
 - Sean Barron: Manages PETC's documents, email list, and meeting minutes. PETC members should contact PETC or Sean to update/change your contact info.

10. Next PETC General Meeting

- Via informal poll during the meeting, about 19 participants stated they would like PETC to host a virtual PETC meeting every six months. Most noted that lunch time on a

business day is the preferred timing. Tim Crowe recommended doing a Doodle Poll in advance of the 6-month meeting.

11. **Close of Meeting.** Meeting Adjourned at 2:47pm Central Time Zone

Meeting Participants

The following list reflects the participants that attended part or all of the meeting and who identified themselves by typing their name in Zoom's "Participants" feature.

PETC Co-Chairs: Amy Woods, Rachel Will, Sarah Gray

PETC Admin: Janet Bascom

Sean Barron
Craig M. Bennett, Jr.
Jenna Bresler
John Cooke
Tim Crowe
John Dumsick
Donald Friedman
Lindsay Hofgartner
Steven Kelley
Nick Lawler

Camille Loudenback
Jamie Marrs
John Matteo
Tom Morrison
Tim Michiels
Richard Ortega
Arlin Otto
Rachel Palisin
Adam Rush
Michael Schuller

Kai Shirey
Patrick Sparks
Corey Spitzer
Justin Spivey
Ally Talamo
Will Teron
Chris Vopni
Simeon A. Warren
Samuel Zabb-Parmley

